



®

ANNUAL REPORT **2023**

BRINGING THE FUTURE
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AAM DELIVERS POWER THAT MOVES THE WORLD.

As a leading global Tier 1 Automotive and Mobility Supplier, AAM designs, engineers and manufactures Driveline and Metal Forming technologies to support electric, hybrid and internal combustion vehicles. Headquartered in Detroit with over 80 facilities in 18 countries, AAM is bringing the future faster for a safer and more sustainable tomorrow. To learn more, visit aam.com.



2023 FINANCIAL HIGHLIGHTS

\$6.1B SALES

\$693M ADJUSTED EBITDA*

\$396M CASH PROVIDED BY OPERATING ACTIVITIES



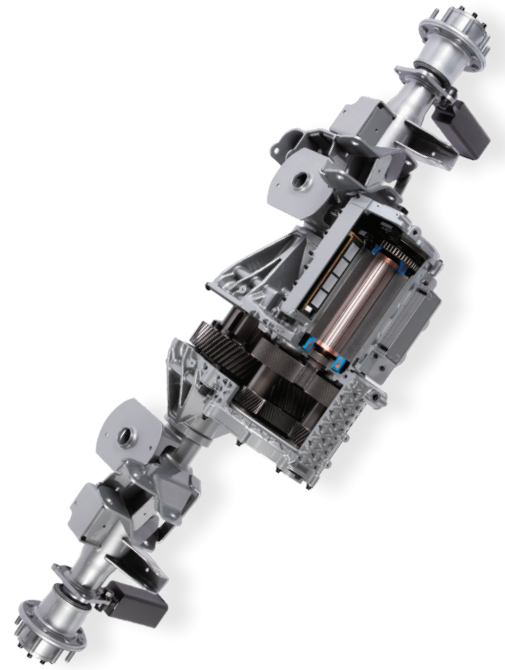
DEAR SHAREHOLDERS:

2023 was a challenging year as production volatility, labor availability, operational challenges, the UAW work stoppage, and elevated input costs, among others, were significant headwinds to AAM. Even with these obstacles, we demonstrated resilience and posted positive results, including solid cash flow performance. As we enter 2024, the management team is focused on factors under our control as we remain strongly committed to delivering on our long-term heritage in quality, operational excellence and technology leadership, which uniquely differentiate us from others. AAM ended 2023 with \$6.1 billion in sales, \$693 million in adjusted EBITDA*, and generated operating cash flow of \$396 million. Additionally, we remained focused on our capital allocation priorities and reduced our outstanding debt by \$140 million, and, since mid-2017, we have reduced gross debt by \$1.4 billion.

* Adjusted EBITDA is a non-GAAP measure. Refer to section entitled "Reconciliation of Non-GAAP and GAAP Information" in our Form 10-K included in this Annual Report for the definition and reconciliation.

OUR VALUE CREATION STRATEGY IS CLEAR – invest for the future and generate returns from our legacy business. As such, AAM remains committed to driveline technology excellence in both electrification and internal combustion engine platforms (ICE) as we focus on an agnostic approach to shifts in propulsion.

As we communicated at our Technology Day in early 2023, AAM is dedicated to becoming a leader in electric propulsion solutions, with a particular focus on electric beam (e-Beam) axle technology, which leverages our deep institutional knowledge in beam axles with our award-winning electric drive platforms. Since that event, our electrification journey has advanced with notable e-Beam business wins, including a significant award with Stellantis to supply front and rear electric axles for a future EV program set to launch later in the decade. Furthermore, AAM announced additional awards, including with Jupiter Electric Mobility for its battery electric light commercial vehicle, Skywell Auto for an electric van platform, and Mahindra for its light electric truck program. These awards reinforce the global market's affinity for AAM's solid e-Beam technology.



This positive momentum is attributed to our electric drive technology. We continue to develop our compelling 3-in-1 platform, which incorporates the gearbox, motor and power electronics in one compact form function. The latest generation of this technology integrates our internally developed motor and power electronics. However, our current technologies remain formidable with our electric drives launching on multiple program variants. Over the past several years, the industry has recognized our technology by awarding us with multiple PACE/ PACEpilot Awards. These industry recognitions are a testament to AAM's robust engineering acumen and focus on collaboration.



While anticipation for our exciting EV future builds, we continue to experience strong demand for our legacy business, exemplified by our recent launches and new business awards. In 2023, we launched a significant driveline program to support General Motors' next generation Chevrolet Colorado and GMC Canyon programs.



In addition, we announced new wins supplying power transfer units and rear drive modules for multiple all-wheel drive sport utility vehicle programs and independent front axles for various hybrid vehicle applications. Furthermore, we secured a majority of our core business beyond 2030. Our strong portfolio of products positions AAM well as a premier driveline and metal forming supplier, regardless of propulsion.

At AAM, sustainability and ESG are priorities, highlighted by our commitment to reach net-zero GHG emissions across the value chain by 2040. In addition, all salaried associates are required to have at least one key performance objective focused on DEI, which is a part of their compensation structure. AAM is dedicated to sustainability and fostering inclusivity within our organization. In 2023, among many awards, Forbes named AAM one of America's Best Employers for Diversity. To learn more about our ongoing sustainability and ESG efforts and achievements, we encourage you to read our 2023 Sustainability Report when it is published on our website this spring.

In conclusion, 2023 was a demanding year; however, I am confident about 2024 and beyond based on AAM's strong long-term fundamentals in quality, operational excellence and technology leadership. This combination is the foundation and hallmark of AAM. As the industry transitions over time to an expanded electric future, AAM will continue to invest in our electric product portfolio and further build upon our award-winning electric drive technology, while leveraging our strong legacy business. The management team and I are focused on long-term shareholder value creation and bringing the future faster.

AS ALWAYS, THANK YOU FOR YOUR CONTINUED SUPPORT.

DAVID C. DAUCH
Chairman & Chief Executive Officer

Forbes 2023

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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal year ended December 31, 2023

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____

Commission file number 1-14303

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

38-3161171
(I.R.S. Employer
Identification No.)

One Dauch Drive, Detroit, Michigan
(Address of principal executive offices)

48211-1198
(Zip Code)

313-758-2000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Trading Symbol(s)	Name of Each Exchange on Which Registered
Common Stock, Par Value \$0.01 Per Share	AXL	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The closing price of the Common Stock on June 30, 2023 as reported on the New York Stock Exchange was \$8.27 per share and the aggregate market value of the registrant's Common Stock held by non-affiliates was approximately \$948.7 million. As of February 13, 2024, the number of shares of the registrant's Common Stock, \$0.01 par value, outstanding was 117,070,442 shares.

Documents Incorporated by Reference

Portions of the registrant's Annual Report to Stockholders for the year ended December 31, 2023 and Proxy Statement for use in connection with its Annual Meeting of Stockholders to be held on May 2, 2024, to be filed with the Securities and Exchange Commission pursuant to Regulation 14A not later than 120 days after December 31, 2023, are incorporated by reference in Part I (Items 1, 1A, 1B, 1C, 2, 3 and 4), Part II (Items 5, 6, 7, 7A, 8, 9, 9A, 9B and 9C), Part III (Items 10, 11, 12, 13 and 14) and Part IV (Item 15) of this Report.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
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Item 1. Business

As used in this report, except as otherwise indicated in information incorporated by reference, references to “our Company,” “we,” “our,” “us” or “AAM” mean American Axle & Manufacturing Holdings, Inc. (Holdings) and its subsidiaries and predecessors, collectively.

General Development of Business

Holdings, a Delaware corporation, is a successor to American Axle & Manufacturing of Michigan, Inc., a Michigan corporation, pursuant to a migratory merger between these entities in 1999. In 2017, we acquired Metaldyne Performance Group, Inc. (MPG), with MPG becoming a wholly-owned subsidiary of Holdings.

Narrative Description of Business

Company Overview

As a leading global tier 1 automotive and mobility supplier, AAM designs, engineers and manufactures Driveline and Metal Forming technologies to support electric, hybrid and internal combustion vehicles. Headquartered in Detroit with over 80 facilities in 18 countries, AAM is bringing the future faster for a safer and more sustainable tomorrow.

Major Customers

We are a primary supplier of driveline components to General Motors Company (GM) for its full-size rear-wheel drive (RWD) light trucks, sport utility vehicles (SUV), and crossover vehicles manufactured in North America, supplying a significant portion of GM's rear axle and four-wheel drive and all-wheel drive (4WD/AWD) axle requirements for these vehicle platforms. We also supply GM with various products from our Metal Forming segment. Sales to GM were approximately 39% of our consolidated net sales in 2023, 40% in 2022, and 37% in 2021.

We also supply driveline system products to Stellantis N.V. (Stellantis) for programs including the heavy-duty Ram full-size pickup trucks and its derivatives. In addition, we sell various products to Stellantis from our Metal Forming segment. Sales to Stellantis were approximately 16% of our consolidated net sales in 2023, 18% in 2022 and 19% in 2021.

We are also a supplier to Ford Motor Company (Ford) for driveline system products on certain vehicle programs including the Bronco Sport, Maverick, Edge, Escape and Lincoln Nautilus, and we also sell various products to Ford from our Metal Forming segment. Sales to Ford were approximately 12% of our consolidated net sales in 2023, 2022 and 2021.

No other customer represented 10% or more of consolidated net sales during these periods.

Business Strategy

We have aligned our business strategy to build value for our key stakeholders. We accomplish our strategic objectives by capitalizing on our competitive strengths and continuing to diversify our customer, product and geographic sales mix, while providing exceptional value to our customers. We are focused on securing and enhancing our core business of internal combustion engine (ICE) programs by delivering operational excellence and quality products to our customers, while growing our electrification business, as vehicle electrification is expected to be the foundation of the future of the automotive industry.

Competitive Strengths

We achieve our strategic objectives by emphasizing a commitment to:

Sustaining our operational excellence and focus on cost management.

- In 2023, AAM received the 2022 GM Overdrive Award, which is awarded to suppliers who display outstanding achievement within GM's Global Purchasing and Supply Chain organization's key priorities, including sustainability, innovation, relationships, total enterprise cost, launch excellence and safety. This was the third consecutive year we received this award.
- We deliver operational excellence by leveraging our global standards, policies and best practices across all disciplines through the use of the AAM Operating System, which includes our S⁴ (S-to-the-fourth) safety system, Q⁴ (Q-to-the-fourth) quality system and E⁴ (E-to-the-fourth) energy and environmental sustainability system. We use this system to focus on customer satisfaction, lean production and efficient cost management, which allows us to improve quality, eliminate waste, and reduce lead time and total costs globally. Additionally, throughout 2023, we have continued our emphasis on cost management in order to mitigate the financial impact of the significant disruptions in the supply chain that the automotive industry has experienced, and continues to experience. These disruptions include volatility in metal, commodity and utility costs, increased transportation costs and labor shortages which have led to volatility in our production schedules, including manufacturing downtime, often with limited notice from customers, higher inventory levels and increased labor costs.
- We maintain a cost competitive, operationally flexible global manufacturing, engineering and sourcing footprint to compete in global growth markets, support global product development initiatives and maintain regional cost competitiveness.
- Our business is vertically integrated to reduce cost and mitigate risk. Our Metal Forming segment, in addition to supplying component parts to many external customers, is a key supplier to our Driveline segment, helping to ensure continuity of supply for certain parts to our largest manufacturing facilities.
- During 2023, we launched 14 programs across our business units for our customers including GM, Mercedes-AMG, BMW and Chery Automobile Co., Ltd. In 2024, we expect to launch approximately 19 new and replacement programs, as well as additional variants of existing programs, for a variety of customers across our business units, including GM, Stellantis, Mercedes-AMG and Volkswagen, as well as electric beam (e-Beam) axles for several OEMs.

Maintaining our high quality standards, which are the foundation of our product durability and reliability.

- AAM's Q⁴ internal quality assurance system drives Q⁴ continuous improvement to meet and exceed the growing expectations of our OEM customers.
- In 2023, four of our global facilities received the GM Supplier Quality Excellence Award for outstanding quality performance during the 2022 performance year.
- AAM was also recognized in 2023 for quality in the 2022 performance year by several other customers including the Paccar 10 PPM Quality Award at our Hausach, Germany facility, the Aisin Special Performance Achievement at our Royal Oak, Michigan facility and the ACMA of India Quality Circle Award at our Chakan, India facility. Additionally, during 2023 our El Carmen, Mexico facility earned the Daimler Master of Quality Award for the third consecutive year, as well as the Continuous Improvement Management Award from CNH Industrial.
- For the 2023 performance year, AAM was also recognized by Ford with the Q1 Quality Award at our Changshu, China Manufacturing Complex, our Auburn Hills, Michigan Manufacturing Complex and our Guanajuato Manufacturing Complex in Silao, Mexico.

Achieving technology leadership by delivering innovative products that enhance our product portfolio while increasing our total global served market. We are focused on securing and enhancing our core business, as the cash flows generated from our existing programs and products contribute to our research and development (R&D) investments in electrification technology that are expected to bring the future of the automotive industry faster.

Securing and Enhancing Our Core Business

- AAM has established a high-efficiency product portfolio that is designed to improve axle efficiency and fuel economy through innovative product design technologies. As our customers focus on reducing weight through the use of aluminum and other lightweighting alternatives, AAM is well positioned to offer innovative, industry leading solutions. Our portfolio includes high-efficiency axles, aluminum axles and AWD applications. AAM's lightweight axle technology features an innovative design, which offers significant mass reduction and increased fuel economy and efficiency that is scalable across multiple applications without the loss of performance or power.
- We have secured our core business as we have been awarded multiple next-generation full-size pickup truck front and rear axle programs with OEM customers and by also being named as the axle supplier for GM's Chevrolet Colorado and GMC Canyon mid-size pickup trucks. These awards are expected to generate revenues from mid-decade to beyond 2030. During 2023, we also secured business to provide power transfer units and rear drive modules for multiple AWD SUV programs for Jetour Global, a division of Chery Automobile Co., Ltd.
- Our Metal Forming segment represents the largest automotive forging operation in the world, and provides engine, transmission, driveline and safety-critical components for light, commercial and industrial vehicles. We have developed advanced forging and machining process technologies to manufacture lightweight, highly precise and power-dense products.
- AAM's Advanced Technology Development Center (ATDC) at our Detroit campus, allows us to accelerate technological advancements. This state-of-the-art facility is our center for technology benchmarking, prototype development, advanced technology development, supplier collaboration, customer showcasing and associate training on our future products, processes, and systems. Our Rochester Hills Technical Center (RHTC) works closely with the ATDC to test and validate new and advanced technologies focused on lightweighting, efficiency and vehicle performance using enhanced diagnostic and hardware assessment capabilities. Our European Headquarters and Engineering Center (EHEC) in Langen, Germany, serves as our center of excellence for research and development, product testing and prototype development in Europe, and our Innovation Center at the Richard E. Dauch Institute in Mexico is focused on identifying ways to improve productivity while implementing manufacturing solutions, as well as educating our associates on process optimization and technology advances.

Bringing the Future Faster

- AAM's investment in R&D has resulted in the development of advanced technology products designed to assist our customers in meeting the market demands for vehicle electrification; advanced and sophisticated electronic controls; lower emissions; enhanced power density; improved ride and handling performance; and enhanced reliability and durability.
- AAM's electric drive technology is designed, engineered and manufactured to provide a diverse and scalable product portfolio of hybrid and electric driveline systems to our customers that range from low-cost value-oriented offerings to high-performance solutions. This includes our e-Beam axles which incorporate high-reduction gearboxes and highly-integrated inverters. These hybrid and electric driveline systems leverage AAM's experience in power density, torque transfer, noise-vibration-harshness reduction, heat management and systems integration, and are designed to improve fuel efficiency, reduce CO₂ emissions and provide AWD capability. Our e-drive technology is designed to be segment agnostic, enabling our products to support a variety of markets and vehicle types.

- During 2023, AAM announced that we were named as the new supplier of front and rear e-Beam axles for a future electric vehicle program with Stellantis. This award is expected to generate revenues in the latter part of the decade. We also expect to launch e-Beam programs for several other OEMs in 2024 and 2025.
- Additionally, during 2023 AAM announced new business awards in North America and Europe to supply differentials and other electric vehicle components to multiple global OEMs.
- In 2023, AAM was named as a finalist for the Automotive News PACEpilot Award for our innovative e-Beam axles with high-speed motor and integrated inverter driveline technology. The Automotive News PACE awards are among the industry's most prestigious awards regarding innovation. Since 2020, AAM has been awarded five PACE Awards demonstrating our innovation leadership in electrification. These awards include a PACE award as well as a PACE Innovation Partnership award related to AAM's electric drive technology on the Mercedes-AMG GT 63 S E Performance and a PACEpilot Innovation to Watch award for our highly integrated three-in-one wheel-end electric drive unit in 2022, and a PACE Innovation Award and a PACE Partnership Award for the front and rear electric drive units featured on the Jaguar all-electric AWD crossover vehicle in 2020.
- In 2022, we enhanced our electrification product portfolio through our acquisition of Tekfor Group (Tekfor), which is a leading provider of driveline and powertrain components for both ICE and hybrid vehicles, as well as e-mobility applications. Throughout 2023, we continued the integration of Tekfor into our business and operations.

Diversification of Customer, Product and Geographic Sales Mix

Another element of building value for our key stakeholders is the diversification of our business through the growth of new and existing customer relationships and expansion of our product portfolio.

- In addition to maintaining and building upon our longstanding relationships with GM, Stellantis and Ford, we are focused on generating profitable growth with new and existing global customers. Recent new business awards and program launches include customers such as Jupiter Electric Mobility, Mahindra and Skywell.
- Electrification is a growing portion of our new and incremental business backlog, as well as our quoted and emerging new business opportunities, and is a significant element of our future growth strategy.

We are focused on increasing our presence in global markets to support our customers' platforms.

- As our customers design their products for global markets, they will continue to require global support from their suppliers. For this reason, it is critical that we maintain a global presence in these markets in order to remain competitive for new contracts. To expand our global capabilities, we have established business offices and engineering centers of excellence in research and development, product testing and prototype development in North America, Europe and Asia.
- We continue to evaluate and consider strategic opportunities that will complement our core strengths, supplement our diversification strategies and increase our presence in global markets, while providing future, profitable growth prospects. Our acquisition of Tekfor in 2022 is an example of our tactical approach to strategic transactions.

Competition

We compete with a variety of independent suppliers and distributors, as well as with the in-house operations of certain vertically integrated OEMs. Technology, design, quality, delivery and cost are the primary elements of competition in our industry segments. In addition to traditional competitors in the automotive sector, the trend toward electrification and advanced electronic integration has increased the level of new market entrants. Further, some traditional automotive industry participants are developing strategic partnerships with technology companies as each party seeks to leverage the existing customer relationships and technical knowledge of the partner, and expedite the development and commercialization of new technology.

Industry Trends

See Item 7, "Management's Discussion and Analysis - Industry Trends."

Productive Materials

We believe that we have adequate sources of supply of productive materials and components for our manufacturing needs, including steel, aluminum and other metallic materials, and resources used for vehicle electrification and electronic integration. Most raw materials (such as steel) and semi-processed or finished items are available within the geographical regions of our operating facilities from qualified sources in quantities sufficient for our needs. We currently have contracts with our steel suppliers that help to ensure continuity of supply to our principal operating facilities. We also have validation and testing capabilities that enable us to strategically qualify steel sources on a global basis. As we continue to expand our global manufacturing footprint, we may need to rely on suppliers in local markets that have not yet proven their ability to meet our requirements.

The automotive industry continues to experience significant disruptions in the supply chain, including volatility in metal and commodity costs. In addition, labor shortages in certain regions in which our suppliers operate could cause production delays, a shortage of materials that we use in our manufacturing operations or increased cost of productive materials. We continue to work with customers and suppliers in our effort to protect continuity of supply as we expect these challenges to continue in 2024.

Patents and Trademarks

We maintain and have pending various United States (U.S.) and foreign patents, trademarks and other rights to intellectual property relating to our business, which we believe are appropriate to protect our interest in existing products, new inventions, manufacturing processes and product developments. We do not believe that any single patent or trademark is material to our business, nor would expiration or invalidity of any patent or trademark have a material adverse effect on our business or our ability to compete.

Cyclical and Seasonality

Our operations are cyclical because they are directly related to worldwide automotive production, which is itself cyclical and dependent on general economic conditions and other factors. Typically, our business is moderately seasonal as our major OEM customers historically have an extended shutdown of operations (typically 1-2 weeks) in conjunction with their model year changeover and an approximate one-week shutdown in the month of December. Our major OEM customers also occasionally have longer shutdowns of operations (up to 6 weeks) for program changeovers. Accordingly, our quarterly results may reflect these trends.

Litigation and Environmental Matters

We are involved in, or potentially subject to, various legal proceedings or claims incidental to our business. These include, but are not limited to, matters arising out of product warranties, contractual matters, and environmental obligations. Although the outcome of these matters cannot be predicted with certainty, at this time we do not believe that any of these matters, individually or in the aggregate, will have a material adverse effect on our financial condition, results of operations or cash flows.

We file U.S. federal, state and local income tax returns, as well as foreign income tax returns in jurisdictions throughout the world. We are also subject to examinations of these tax returns by the relevant tax authorities. Negative or unexpected outcomes of these examinations and audits, and any related litigation, could have a material adverse impact on our results of operations, financial condition and cash flows. See Note 9 - Income Taxes for additional discussion regarding examinations and audits of our tax returns and pending tax litigation.

We are subject to various federal, state, local and foreign environmental and occupational safety and health laws, regulations and ordinances, including those regulating air emissions, water discharge, waste management and environmental cleanup. We will continue to closely monitor our environmental conditions to ensure that we are in compliance with all laws, regulations and ordinances. We have made, and anticipate continuing to make, capital and other expenditures (including recurring administrative costs) to comply with environmental requirements at our current and former facilities. Such expenditures were not significant in 2023, 2022 and 2021.

Environmental, Social and Governance

Environmental Sustainability

We are committed throughout our operations to the conservation and protection of our natural resources and the environment. The AAM Operating System includes our E⁴ system, which is AAM's energy and environmental sustainability program designed to drive continuous improvement in our operations by reducing energy consumption, greenhouse gas (GHG) emissions and water usage, while minimizing waste and lessening the environmental impact of our production operations. Additionally, we have committed to reaching net-zero carbon emissions by 2040, and have received the validation of our net-zero emissions targets by the climate-action organization Science Based Targets Initiative. We also have established a goal to purchase 100% of energy for our operations in the U.S. from renewable sources by 2025.

We are subject to risks of environmental issues, including impacts of climate-related events, that could result in unforeseen disruptions or costs to our operations. We did not experience any climate-related events in 2023, 2022 or 2021 that we believe had, or could have, a material adverse impact on our results of operations, financial condition and cash flows.

Human Capital Management

Our ability to sustain and grow our business requires us to attract, retain and develop a highly skilled and diverse workforce. We employ approximately 19,000 associates on a global basis, of which 6,000 are employed in the U.S. and 13,000 are employed at our non-U.S. locations. Approximately 5,000 are salaried associates and approximately 14,000 are hourly associates. Of the 14,000 hourly associates, approximately 72% are represented under collective bargaining agreements with various labor unions.

Creating a Diverse, Equitable and Inclusive Culture

At AAM, we believe diversity drives creativity. We believe an equitable and inclusive culture encourages, supports and celebrates the unique voices of our global workforce. AAM is committed to listening, learning and taking action that will move our company and our communities forward, together. Embracing diversity promotes innovation and helps AAM to attract and retain the best talent everywhere we do business.

AAM's commitment to Diversity, Equity and Inclusion (DEI) begins with our Board of Directors (Board). The Board's active oversight reflects the importance of our DEI journey to our business and demonstrates the power of accountability to this critical initiative. With oversight from our Board and direction from senior leadership, our DEI Steering Committee (DEI Committee) helps to ensure that our initiatives are guided by the experiences and recommendations of our associates. Comprised of talented and diverse associates, the DEI Committee helps develop new company initiatives designed to advance a respectful and inclusive company culture and to reinforce the importance of inclusion at AAM. AAM has established five pillars for our DEI program: 1) enhancing DEI skills, 2) maintaining a safe and inclusive environment, 3) providing equitable talent management and inclusive benefits and policies, 4) supporting stakeholder engagement and 5) reinforcing leadership ownership and accountability.

Our Global DEI 2+1 Program, which launched in 2022, focuses on our two global DEI topics of valuing differences and improving the representation of women in our global workforce. In addition, each AAM facility selected one additional (+1) topic based on their local DEI initiatives, and to support our 2030 demographic goals around the world.

In 2023, we continued our commitment to initiatives that foster a culture of inclusion and develop a more diverse workforce. Key DEI initiatives included:

- Continued focus on our Associate Resource Groups (ARGs) which provide a forum for associates with shared experiences, characteristics or backgrounds to connect and enhance career and personal development. Our ARGs include: POWHER, Young Professionals, U.S. Veterans, Black Associate Network and Latin America Talent Inclusion Network.
- Sponsoring multiple ARG events focused on company, culture, community and career, as well various learning opportunities.
- Optimizing the structure of our DEI Committee to emphasize associate engagement and talent management.
- Establishing our first Regional DEI Steering Committee in Mexico and our first regional ARG in Europe to provide more support for local DEI initiatives in these regions.

Attracting and Retaining Associates

Our AAM360 program serves as the foundation for our recruitment and retention strategy. Its four components are designed to enhance our associates' experience at AAM and includes associate health and safety, professional development, competitive compensation and benefits and the global community. These programs offer resources, tools and events that are designed to empower associates in their work and personal lives. Empowerment of our associates is essential to continuously improving our quality performance, technology leadership and operational excellence and enabling our associates to grow professionally into the leaders that will guide AAM into the future.

Our AAM360 program assists management in developing and implementing standards for recruitment and selection of a knowledgeable and diverse workforce, promoting learning and growth and driving effective performance while fostering an environment of open communication with AAM leadership in a variety of formats, including townhall-style meetings. AAM associates can also raise issues and concerns to the attention of management through the use of associate surveys and our 24/7 ethics hotline. Through our AAM360 program, AAM management monitors workforce demographics and attrition, associate performance data, succession and development plans and feedback from associates to ensure that our associates' experience is meeting these objectives.

The automotive industry continues to experience significant disruptions in the supply chain, including labor shortages in a variety of positions and experience levels. Additionally, the industry has experienced work stoppages, such as the International Union, United Automobile, Aerospace and Agricultural Implement Workers of America (UAW) work stoppages at certain of the manufacturing facilities of our three largest customers in the third and fourth quarter of 2023. We are taking measures to address these labor issues across our global operations to mitigate the impact to AAM, including actively managing production schedules and reviewing our compensation and benefit programs to ensure that they are competitive with local markets.

Developing Associates

We have established sustainable and adaptable talent management programs focused on the training and development of our associates. This development starts with early career programs and progresses through leadership development. These programs are designed to help associates realize their full potential by understanding the expectations of their current role and setting goals for future growth and learning, which contributes to the overall success of AAM.

Health and Wellness Programs

At AAM, the health of our associates is very important to us. We maintain a comprehensive, interactive and personalized wellness program to make it easy for our associates and their families to live a healthier lifestyle and help achieve personal wellness goals.

S⁴ (S-to-the-Fourth) Safety System

At AAM, our first responsibility every day, in every facility, is the safety of our global associates. AAM's S⁴ safety system is focused on developing, engaging, monitoring, and continuously educating our associates on standardized procedures that are the basis of our safety culture and safety policy.

The primary goal of S⁴ is to achieve compliance with all internal and external requirements and regulations while driving behavioral changes to maintain a safe and environmentally friendly workplace. At AAM, we believe safety performance is a journey where each facility strives to achieve S⁴ by moving from a reactive safety environment to an interdependent safety environment.

We are focused on continuous improvement of the S⁴ system and in our total recordable incident rate (TRIR) in every facility. We continuously monitor our facilities progress in the S⁴ Safety System. In 2023, our TRIR was 0.85 – a reduction of approximately 60% in recordable injuries since the S⁴ program began in 2015.

Partnering with our Global Communities

AAM believes that we have a responsibility to give back to the communities in which we live and work. AAM has long-standing relationships with charitable organizations to support local families, youth outreach, education, wellness, and social equality. We support global organizations with both donations and volunteer hours, and AAM associates across the globe regularly participate in charitable and community events that allow our team to contribute to causes important to them.

Executive Officers of AAM

Name	Age	Position
David C. Dauch	59	Chairman of the Board & Chief Executive Officer
Terri M. Kemp	58	Senior Vice President - Human Resources & Sustainability
Michael J. Lynch	59	President & Chief Operating Officer
Christopher J. May	54	Executive Vice President & Chief Financial Officer
Tolga I. Oal	52	President - Driveline
Matthew K. Paroly	58	Vice President & General Counsel

David C. Dauch, age 59, has been AAM's Chief Executive Officer since September 2012. Mr. Dauch has served on AAM's Board of Directors since April 2009 and was appointed Chairman of the Board in August 2013. From September 2012 through August 2015, Mr. Dauch served as AAM's President & CEO. Prior to that, Mr. Dauch served as President & Chief Operating Officer (2009 - 2012) and held several other positions of increasing responsibility from the time he joined AAM in 1995. Presently, he serves on the boards of Business Leaders for Michigan, the Detroit Regional CEO Council, the Detroit Economic Club, the Detroit Regional Chamber, the Detroit Regional Partnership, the Detroit Mayor's Workforce Development Board, the Great Lakes Council Boy Scouts of America, the Boys & Girls Clubs of Southeast Michigan, the National Association of Manufacturers (NAM), Amerisure Mutual Holdings, Inc. and the Amerisure Companies. Mr. Dauch also serves on the General Motors Supplier Council, Stellantis Supplier Advisory Council, the Sustainability Leadership Council of Michigan and the Miami University Business Advisory Council.

Terri M. Kemp, age 58, has been Senior Vice President - Human Resources & Sustainability since March 2023. Prior to that, she served as Senior Vice President - Human Resources (since January 2023), Vice President - Human Resources (since September 2012), Executive Director - Human Resources & Labor Relations (since November 2010), Executive Director - Human Resources (since September 2009), Director - Human Resources Operations (since October 2008), and served in various plant and program management roles since joining AAM in July 1996. Prior to joining AAM, Mrs. Kemp served for nine years at Corning Incorporated, where she progressed through a series of manufacturing positions with increasing responsibility, including Industrial Engineer, Department Head and Operations Manager.

Michael J. Lynch, age 59, has been AAM's President & Chief Operating Officer since March 2023. Prior to that, he served as Chief Operating Officer (since December 2022), President - Driveline (since November 2021), Vice President - Finance & Controller (since February 2017), Vice President - Driveline Business Performance & Cost Management (since May 2015); Vice President - Finance & Controller (since September 2012); Executive Director & Controller (since October 2008); Director - Commercial Analysis (since July 2006); Director - Finance, Driveline Americas (since March 2006); Director - Investment & Commercial Analysis (since November 2005); Director - Finance, Driveline (since October 2005); Director - Finance Operations, U.S. (since April 2005); Manager - Finance, Detroit Manufacturing Facility (since June 2003); Manager - Finance, Forging Division (since September 2001); Finance Manager - Albion Automotive (since October 1998); Supervisor - Cost Estimating (since February 1998) and Financial Analyst at the Detroit Manufacturing Facility since joining AAM in September 1996. Prior to joining AAM, Mr. Lynch served at Stellar Engineering for nine years in various capacities.

Christopher J. May, age 54, has been Executive Vice President & Chief Financial Officer since January 2023. Prior to that, he served as Vice President & Chief Financial Officer (since August 2015), Treasurer (since December 2011); Assistant Treasurer (since September 2008); Director of Internal Audit (since September 2005); Divisional Finance Manager - Metal Formed Products (since June 2003); Finance Manager - Three Rivers Manufacturing Facility (since August 2000); Manager, Financial Reporting (since November 1998) and Financial Analyst since joining AAM in 1994. Prior to joining AAM, Mr. May served as a Senior Accountant for Ernst & Young. Mr. May is a certified public accountant.

Tolga I. Oal, age 52, has been President - Driveline, since December 2022 when he rejoined AAM after serving as Co-Chief Executive Officer of Howmet Aerospace until October 2021. From 2015 to 2019, he served in various executive positions at AAM including Senior Vice President - Global Procurement and Supplier Quality Engineering (since January 2019), President - Driveline (since September 2018), and Senior Vice President - AAM and President - AAM North America (since September 2015). Prior to joining AAM in 2015, Mr. Oal served as Vice President of Global Electronics for TRW Automotive, since 2012. Before that, Mr. Oal served in various manufacturing and management positions of increasing responsibility within TRW for Global Electronics, including Director of Operations and as Director of Finance. Prior to joining TRW, Mr. Oal held various leadership positions in engineering, sales, purchasing, and finance at Siemens VDO Automotive/Continental.

Matthew K. Paroly, age 58, has been Vice President and General Counsel since joining AAM in May 2023. Prior to joining AAM, Mr. Paroly served as Vice President, Chief Legal Officer, Global ESG Director and Company Secretary for TI Fluid Systems plc. Prior to joining TI Fluid Systems, Mr. Paroly served as Vice President and Chief Legal Officer at Nexteer Automotive Inc. and Vice President and General Counsel at Fisker Automotive Inc. He has more than 30 years of experience in private law practice and in-house executive and legal positions at both public and private companies, including 20 years of experience in the automotive industry. Mr. Paroly holds a juris doctor degree.

Internet Website Access to Reports

The website for American Axle & Manufacturing Holdings, Inc. is www.aam.com. Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to section 13(a) or 15(d) of the Securities Exchange Act of 1934 are available free of charge through our website as soon as reasonably practicable after they are electronically filed with, or furnished to, the Securities and Exchange Commission (SEC). The SEC also maintains a website at www.sec.gov that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. The information contained in the Company's website is not included, or incorporated by reference, in this Annual Report on Form 10-K.

Item 1A. Risk Factors

The following risk factors and other information included in this Annual Report on Form 10-K should be considered as our business, financial condition, operating results and cash flows could be materially adversely affected if any of the following risks occur.

Risks Related to Our Operations

Our business has been, and could continue to be, adversely affected by disruptions in our supply chain and our customers' supply chain.

We depend on a limited number of suppliers for certain key components and materials needed for our products. We rely upon, and expect to continue to rely upon, certain suppliers for critical components and materials that are not readily available in sufficient volume from other sources. We may need to rely on suppliers in local markets that have not yet proven their ability to meet our requirements. These supply chain characteristics make us susceptible to supply shortages and price increases. If production volumes increase rapidly, there can be no assurance that the suppliers of critical components and materials will be able or willing to meet our future needs on a timely basis. A significant disruption in the supply of components or materials could have a material adverse effect on our results of operations and financial condition.

Our supply chain, as well as our customers' supply chain, is also at risk of unanticipated events such as pandemic or epidemic illness, natural disasters, industrial incidents, changes in governmental regulations and trade agreements, or financial or operational instability of suppliers that could cause a disruption in the supply of critical components to us and our customers. For example, the automotive industry has experienced, and continues to experience, significant disruptions in the supply chain, including volatility in metal, commodity and utility costs, global logistical constraints and increased transportation costs. As a result, we have continued to experience volatility in our sales and production schedules, including manufacturing downtime, often with limited notice from customers and increased inventory levels, which have negatively impacted our production efficiency and financial condition.

In addition, we continue to experience a significant shortage of qualified hourly labor availability in certain regions in which we operate. This labor shortage has contributed to production volatility and inefficiencies in the manufacturing process, as well as increased labor costs, resulting in lower gross margins at certain of our manufacturing facilities. If we cannot secure sufficient hourly labor resources, we may be unable to protect continuity of supply and meet customer demand, which could have a material adverse effect on our results of operations and financial condition.

Our business could be adversely affected by volatility in the price or availability of raw materials, utilities, natural resources and transportation.

We may experience volatility, whether from inflation or otherwise, in the cost or availability of raw materials used in production, including steel, aluminum and other metallic materials, and resources used in electronic components, or in the cost or availability of utilities and natural resources used in our operations, such as electricity, water and natural gas. We may also experience volatility in the cost or availability of freight and logistics carriers as a result of supply chain constraints. If we are unable to pass such cost increases on to our customers, or are otherwise unable to mitigate these cost increases, or if we are unable to obtain adequate supply of raw materials, utilities and natural resources, this could have a material adverse effect on our results of operations and financial condition.

Our business is significantly dependent on sales to GM, Stellantis and Ford.

Sales to GM were approximately 39% of our consolidated net sales in 2023, 40% in 2022, and 37% in 2021. A reduction in our sales to GM, or a reduction by GM of its production of light truck, SUV or crossover vehicle programs that we support, as a result of market share losses of GM or otherwise, could have a material adverse effect on our results of operations and financial condition.

Sales to Stellantis accounted for approximately 16% of our consolidated net sales in 2023, 18% in 2022 and 19% in 2021, and sales to Ford accounted for approximately 12% of our consolidated net sales in 2023, 2022 and 2021. A reduction in our sales to either Stellantis or Ford or a reduction by Stellantis or Ford of their production of the programs we support, as a result of market share losses or otherwise, could have a material adverse effect on our results of operations and financial condition.

Our business may also be adversely affected by reduced demand for the product programs we currently support, or anticipate supporting in the future, or if we do not obtain sales orders for successor programs that replace our current product programs, as a result of a shift in vehicle architecture from ICE to electrification, or otherwise.

Our business is dependent on our Guanajuato Manufacturing Complex.

A high concentration of our global business is supported by our Guanajuato Manufacturing Complex (GMC) in Mexico. GMC represents a significant portion of our net sales, profitability and cash flow from operations and we expect GMC to continue to represent a substantial portion of these metrics for the foreseeable future. A significant disruption to our GMC operations, as a result of changes in trade agreements between Mexico and other jurisdictions, including the U.S., tariffs, compliance with customs regulations, tax law changes, changes to our operating structure in Mexico, labor disputes or shortages, logistical constraints, natural disasters, availability of natural resources or utilities, pandemic or epidemic illness, or otherwise, could have a material adverse impact on our results of operations and financial condition.

Our business could be adversely affected by risks inherent in transitioning our business from internal combustion engine vehicle products to electric vehicle products.

As the electrification of vehicles continues to expand, we have increased our product portfolio of electric vehicle systems and components. There are significant risks inherent in the industry shift to electric vehicles and expansion of vehicle electrification, as well as the resulting change in our product mix toward systems and components that will support this shift. These risks include significant capital investment, often with long lead times prior to start of production for these programs, accelerated product development cycles, and material and labor requirements and sources which differ from our internal combustion engine vehicle business. In addition, barriers to the adoption of electric vehicles by end-users, such as safety concerns, infrastructure limitations, and cost, create difficulty for our customers to predict the rate at which consumers will accept electric vehicles. This creates significant uncertainty in estimating production volumes and associated profitability for electric vehicle programs and relating to the timing of start of production for these programs. This uncertainty could result in AAM's actual revenues differing materially from those previously estimated and included in our new and incremental business backlog or could result in a change in the timing of recognizing revenues as production start dates are subject to change.

Alternatively, if consumer acceptance of electric vehicles occurs more rapidly than predicted, the demand for our internal combustion engine vehicle products could be reduced, potentially limiting the amount we would be able to invest in developing new technologies and enhancing our electric vehicle product portfolio. Our revenue, operating results and financial condition could be adversely impacted if we fail to effectively manage any of these risks.

A failure of our information technology (IT) networks and systems, or the impact of a cyber attack, could adversely impact our business and operations.

We rely upon information technology networks and systems to process, transmit and store electronic information, and to manage or support a variety of critical manufacturing and business processes or activities. Additionally, we and certain of our third-party vendors collect and store personal or confidential information, including personally identifiable information, in connection with human resources operations and other aspects of our business. The secure operation of these information technology networks and systems and the proper processing and maintenance of this information are critical to our manufacturing and business operations. Although we have implemented robust security measures, we cannot be certain that the security measures we have in place to protect these systems and data will be successful or sufficient to protect our IT systems from current and emerging technology threats and damage from computer viruses, unauthorized access, cyber attack and other similar disruptions. In addition, we are exposed to similar risks resulting from cyber attacks experienced by our customers, suppliers and third-party service providers. The occurrence of any of these events could compromise our networks, or the networks of our suppliers and third-party service providers, and the information stored there could be accessed, publicly disclosed or lost.

Any such access, disclosure or other loss of information could result in legal claims or proceedings, liability or regulatory penalties under laws protecting the privacy of personal information, the disruption of our operations or damage to our reputation. In the future, we may be required to incur significant costs to protect against or repair damage caused by these disruptions or security breaches, or as a result of implementing business continuity processes in response to disruptions or security breaches. See Item 1C. Cybersecurity for additional detail regarding our cybersecurity risk management, strategy and governance.

Our company, our suppliers or our customers and their suppliers may not be able to successfully and efficiently manage the timing and costs of new product program launches.

Certain of our customers are preparing to launch new product programs for which we will supply newly developed products and related components. There can be no assurance that we will successfully complete the transition of our manufacturing facilities and resources to support these new product programs or other future product programs on a timely and cost efficient basis. Accordingly, the launch of new product programs, or a shift in product mix from traditional ICE programs to hybrid and electric vehicle programs, may adversely affect production rates or other operational efficiency and profitability measures at our facilities. We may also experience difficulties with the performance of our supply chain, or the supply chains of customers and their suppliers, on program launches, which could result in our inability to meet our contractual obligations to key customers. Production shortfalls or production delays, if any, could result in our failure to effectively manage our manufacturing costs relating to these program launches. In addition, our customers may delay the launch or fail to successfully execute the launch of these new product programs, or any additional future product program for which we will supply products. Our revenues, operating results and financial condition could be adversely impacted if our customers fail to timely launch such programs or if we are unable to manage the timing requirements and costs of new product program launches.

Our company may not realize all of the revenue expected, or we may experience delays in realizing the expected revenue, from our new and incremental business backlog.

The realization of incremental revenues from awarded business is inherently subject to a number of risks and uncertainties, including the accuracy of customer estimates relating to the number of vehicles to be produced in new and existing product programs and the timing of such production, as well as the fluctuation in exchange rates for programs sourced in currencies other than our reporting currency. Further, as the percentage of our backlog associated with electric vehicle programs increases, these risks could be exacerbated due to uncertainty related to electric vehicles, including end-user acceptance rates and the availability of critical electric vehicle infrastructure. It is also possible that our customers may delay or cancel a product program that has been awarded to us. Our revenues, operating results and financial condition could be adversely affected relative to our current financial plans if we do not realize substantially all the revenue from our new and incremental business backlog.

We may incur material losses and costs as a result of product recall or field action, product liability and warranty claims, litigation and other disputes and claims.

We are exposed to warranty, product recall or field action and product liability claims in the event that our products fail to perform as expected, and we may be required to participate in a recall of such products. We are not responsible for certain warranty claims that may be incurred by our customers, which include returned components for which no defect was found upon inspection, discretionary acts of dealer goodwill, defects related to certain directed buy components, and build-to-print design issues. We review warranty claim activity in detail, and we may have disagreements with our customers as to responsibility for these types of costs incurred by our customers. In addition, as we continue to diversify our customer base, we expect our obligation to share in the cost of providing warranties as part of our agreements with new customers will increase. Costs and expenses associated with warranties, field actions, product recalls and product liability claims could have a material adverse impact on our results of operations and financial condition and may differ materially from the estimated liabilities that we have recorded in our consolidated financial statements.

In addition to warranty claims relating directly to products we produce, potential product recalls for our customers and their other suppliers, and the potential reputational harm that may result from such product recalls, could have a material adverse impact on our results of operations and financial condition.

We are also involved in various legal proceedings incidental to our business. Although we believe that none of these matters are likely to have a material adverse effect on our results of operations or financial condition, there can be no assurance as to the ultimate outcome of any such legal proceeding or any future legal proceedings.

Our business could be adversely affected if we, our customers, or our suppliers fail to maintain satisfactory labor relations.

A significant portion of our hourly associates worldwide, as well as the workforces of our customers and suppliers, are members of industrial trade unions employed under the terms of collective bargaining agreements. There can be no assurance that future negotiations with labor unions will be resolved favorably or that we, our customers or suppliers will not experience a work stoppage or disruption that could have a material adverse impact on our results of operations and financial condition. In the third quarter of 2023, the collective bargaining agreements between the International Union, United Automobile, Aerospace and Agricultural Implement Workers of America (UAW) and our three largest customers expired and the UAW initiated work stoppages at certain of the manufacturing locations of these customers, which continued into the fourth quarter. New labor agreements between the UAW and our three largest customers were ratified in November 2023 and resulted in compensation increases for the UAW associates. There can be no assurance that such future negotiations, whether between AAM and the labor unions representing certain of our hourly associates or between our customers or suppliers and the labor unions representing certain of their hourly associates, will not result in additional labor cost increases or other terms and conditions that could adversely affect our results of operations and financial condition, our ability to compete for future business or our ability to attract and retain qualified associates.

We use important intellectual property in our business. If we are unable to protect our intellectual property, or if a third party makes assertions against us or our customers relating to intellectual property rights, our business could be adversely affected.

We own important intellectual property, including patents, trademarks, copyrights and trade secrets. Our intellectual property plays an important role in maintaining our competitive position in a number of the markets that we serve. Our competitors may develop technologies that are similar to our proprietary technologies or design around the patents we own or license. Further, as we expand our operations in jurisdictions where the protection of intellectual property rights is less robust, the risk of others duplicating our proprietary technologies increases, despite efforts we undertake to protect them. Developments or assertions by or against us relating to intellectual property rights, and any inability to protect these rights, could materially adversely affect our business and our competitive position.

Our company's ability to operate effectively could be impaired if we cannot attract and retain qualified personnel in key positions and functions.

Our success depends, in part, on the efforts of our executive officers and other key salaried and hourly associates, such as global operational leadership, engineers, information technology professionals and associates with experience in skilled trades. In addition, our future success will depend on, among other factors, our ability to continue to attract and retain qualified personnel, particularly engineers and other associates with critical expertise and skills that support key customers and products, including those supporting the expansion of our product portfolio into electrification. The loss of the services of our executive officers or other key associates, unexpected turnover, or the inability to attract or retain associates, could have a material adverse effect on our results of operations and financial condition.

Our goodwill, other intangible assets, and long-lived assets are at risk of impairment if our business or market conditions indicate that the carrying value of those assets exceeds their fair value.

Accounting principles generally accepted in the United States of America (GAAP) require that companies evaluate the carrying value of goodwill, other intangible assets, and long-lived assets routinely in order to assess whether any indication of asset impairment exists. Goodwill is required to be evaluated on an annual basis, while finite-lived intangible assets and long-lived assets should be evaluated only when events and circumstances exist that indicate an asset or group of assets may be impaired.

We conduct our annual goodwill impairment test in the fourth quarter using a third-party valuation specialist to assist management in determining the fair value of our reporting units. Fair value of each reporting unit is estimated based on a combination of discounted cash flows and the use of pricing multiples derived from an analysis of comparable public companies multiplied against historical and/or anticipated financial metrics of each reporting unit. These calculations contain uncertainties as they require management to make assumptions including, but not limited to, market comparables, future cash flows of the reporting units, and appropriate discount and long-term growth rates. A decline in the actual cash flows of our reporting units in future periods, as compared to the projected cash flows used in our valuations, could result in the carrying value of the reporting units exceeding their respective fair values. Further, a change in market comparables, discount rate or long-term growth rate, as a result of a change in economic conditions or otherwise, could result in the carrying values of the reporting units exceeding their respective fair values.

Risks Related to Our Industry

We are under continuing pressure from our customers to reduce our prices.

Annual price reductions are a common practice in the automotive industry. Many of our contracts require us to reduce our prices in subsequent years and most of our contracts allow us to adjust prices for engineering changes requested by our customers. If we accommodate a customer's demand for higher annual price reductions and are unable to offset the impact of any such price reductions through continued technology improvements, cost reductions or other productivity initiatives, our results of operations and financial condition could be adversely affected.

Our business faces substantial competition.

The markets in which we compete are highly competitive. Our competitors include the in-house operations of many vertically integrated OEMs, as well as many other domestic and foreign companies possessing the capability to produce some or all of the products we supply. In addition to traditional competitors in the automotive sector, the trend towards advanced electronic integration and electrification has increased the level of new market entrants, including technology companies. Some of our competitors are affiliated with OEMs and others could have economic advantages as compared to our business, such as scale of operations, patents, existing underutilized capacity and lower wage and benefit costs. Technology, design, quality, delivery and cost are the primary elements of competition in our markets. As a result of these competitive pressures and other industry trends, OEMs and suppliers are developing strategies to reduce costs.

These strategies include supply base consolidation, as well as in-sourcing, vertical integration, global sourcing by OEMs and use of artificial intelligence and machine learning. Further, some traditional automotive industry participants are developing strategic partnerships with technology companies as each party seeks to leverage the existing customer relationships and technical knowledge of the partner, and expedite the development and commercialization of new technology. Our business may be adversely affected by increased competition from suppliers benefiting from OEM affiliate relationships or financial and other resources that we do not possess. Our business may also be adversely affected if we do not sustain our ability to meet customer requirements relative to technology, design, quality, delivery and cost.

If we are unable to respond timely to changes in technology and market innovation, we risk not being able to develop our intellectual property into commercially viable products.

Our results of operations and financial condition are impacted, in part, by our competitive advantage in developing, engineering, and manufacturing innovative products. Our ability to anticipate changes in technology, successfully develop, engineer, and bring to market new and innovative proprietary products, or successfully respond to evolving business models, including hybrid and electric vehicle advances, may have a significant impact on our market competitiveness. If we are unable to maintain our competitive advantage through innovation, or if we do not sustain our ability to meet customer requirements relative to technology, there could be a material adverse effect on our results of operations and financial condition.

Our business is dependent on certain global automotive market segments.

A substantial portion of our revenue is derived from products supporting internal combustion engine RWD light truck and SUV platforms and AWD crossover vehicle platforms in North America, Europe and Asia. Sales and production levels of these vehicle platforms can be affected by many factors, including changes in consumer demand and preference; adverse economic conditions, such as recession or recessionary concerns; product mix shifts favoring other types of light vehicles, such as front-wheel drive based crossover vehicles and passenger cars; fuel prices; vehicle electrification; and government regulations. Reduced demand in the market segments we currently supply could have a material adverse impact on our results of operations and financial condition, or our ability to invest in the necessary research and development activities to grow our electrification business.

Our business could be adversely affected by the cyclical nature of the automotive industry.

Our operations are cyclical because they are directly related to worldwide automotive production, which is itself cyclical and dependent on general economic conditions and other factors, such as credit availability, interest rates, fuel prices, consumer preference and confidence, and the ability of end-users to secure affordable financing. Our business may be adversely affected by an economic decline or fiscal crisis, including prolonged recessionary periods, that result in a reduction of automotive production and sales by our customers.

Risks Related to Liquidity, Indebtedness and the Capital Markets

We have incurred substantial indebtedness and our financial condition and operations may be adversely affected by a violation of financial and other covenants.

We have incurred substantial indebtedness and related debt service obligations, which could have important consequences, including:

- reduced flexibility in planning for, or reacting to, changes in our business, the competitive environment and the markets in which we operate, and to technological and other changes;
- reduced access to capital and increasing borrowing costs generally or for any additional indebtedness to finance future operating and capital expenditures and for general corporate purposes;
- lowered credit ratings;
- reduced funds available for operations, capital expenditures and other activities; and
- competitive disadvantages relative to other companies with lower debt levels.

Our Senior Secured Credit Facilities, comprised of our Revolving Credit Facility, as well as our Term Loan A Facility and Term Loan B Facility, and our senior unsecured notes, contain customary affirmative and negative covenants. Some or, with respect to certain covenants, all of these agreements include financial covenants based on leverage and cash interest expense coverage ratios and limitations on Holdings, AAM Inc., and their restricted subsidiaries to make certain investments, declare or pay dividends or distributions on capital stock, redeem or repurchase capital stock and certain debt obligations, incur liens, incur indebtedness, or merge, make certain acquisitions or sales of assets.

The Senior Secured Credit Facilities and the indentures governing our senior unsecured notes also include customary events of default. Obligations under the Senior Secured Credit Facilities and our senior unsecured notes are required to be guaranteed by most of our U.S. subsidiaries that hold domestic assets. In addition, the Senior Secured Credit Facilities are secured on a first priority basis by all or substantially all of the assets of AAM Inc., the assets of Holdings and each guarantor's assets, including a pledge of capital stock of our U.S. subsidiaries that hold domestic assets, including each guarantor, and a portion of the capital stock of the first tier foreign subsidiaries of AAM Inc. and MPG.

A violation of any of these covenants or agreements could result in a default under these contracts, which could permit the lenders or note holders, as applicable, to accelerate repayment of any borrowings or notes outstanding at that time and levy on the collateral granted in connection with the Senior Secured Credit Facilities. A default or acceleration under the Senior Secured Credit Facilities or the indentures governing the senior unsecured notes may result in defaults under our other debt agreements and may adversely affect our ability to operate our business, our subsidiaries' and guarantors' ability to operate their respective businesses and our results of operations and financial condition.

The available capacity under our Revolving Credit Facility could be limited by our covenant ratios under certain conditions. An increase in the applicable leverage ratio, as a result of decreased earnings or otherwise, could result in reduced access to capital under our Revolving Credit Facility, which is a significant component of our total available liquidity.

Our business could be adversely affected by fluctuations in the global capital markets.

Our business and financial results are affected by fluctuations in the global financial markets, including interest rates and currency exchange rates. Failure to respond timely to these fluctuations, or failure to effectively hedge these risks when possible, could lead to a material adverse impact on our results of operations and financial condition. Future business operations and opportunities, including potential expansion of our business outside North America, may further increase the risk that cash flows resulting from these global operations may be adversely affected by changes in interest rates or currency exchange rates.

Our company faces substantial pension and other postretirement benefit obligations.

We have significant pension and other postretirement benefit obligations to certain of our associates and retirees. Our ability to satisfy the funding requirements associated with these obligations will depend on our cash flow from operations and our ability to access credit and the capital markets. The funding requirements of these benefit plans, and the related expense reflected in our financial statements, are affected by several factors that are subject to an inherent degree of uncertainty and volatility, including governmental regulation. Key assumptions used to value these benefit obligations and the cost of providing such benefits, funding requirements and expense recognition include the discount rate, the expected long-term rate of return on pension assets, mortality rates and the health care cost trend rate. If the actual trends in these factors are less favorable than our assumptions, this could have an adverse effect on our results of operations and financial condition.

Risks Related to Our International Operations

Our company's global operations are subject to risks and uncertainties, including tariffs and trade relations.

We have business and technical offices and manufacturing facilities in multiple countries outside the U.S. International operations are subject to certain risks inherent in conducting business outside the U.S., such as changes in currency exchange rates, tax laws, price and currency exchange controls, tariffs or import restrictions, compliance with customs regulations, nationalization, immigration policies, expropriation and other governmental action. Our global operations also may be adversely affected by political events, violations of anti-bribery or corruption laws, government sanctions, domestic or international terrorist events and hostilities, geopolitical conflicts, natural disasters and significant weather events, disruptions in the global financial markets, or public health crises, such as pandemic or epidemic illness.

As U.S. companies continue to expand globally, increased complexity exists due to recent changes to corporate tax codes, potential revisions to international tax law treaties and renegotiated trade agreements, including the United States-Mexico-Canada trade agreement. These uncertainties, as well as the potential impacts of these agreements, could have a material adverse effect on our business and our results of operations and financial condition. Our future success will depend, in part, on our ability to anticipate and effectively manage these and other risks.

Our business could be adversely impacted by global climate change or an inability to meet the expectations of our stakeholders related to environmental, social and governance (ESG) objectives.

Natural disasters or extreme weather conditions that occur as a result of global climate change could lead us, our customers or suppliers to experience significant disruptions in operations or availability of key components, which could lead to a material adverse impact on our results of operations and financial condition.

Further, various stakeholders, including customers, suppliers, providers of debt and equity capital, regulators and those in the workforce, are increasing their expectations of companies to do their part to combat global climate change and its impact, and to conduct their operations in an environmentally sustainable and socially responsible manner with appropriate oversight by senior leadership. We have made public commitments to reduce emissions, conserve resources at our various facilities and further develop a diverse, equitable and inclusive culture. A failure to respond to the expectations and initiatives of our stakeholders or achieve the commitments we have made, could result in damage to our reputation and relationships with various stakeholders. We could also experience adverse impacts to our financial condition due to volatility in the cost or availability of capital, difficulty obtaining new business or entering into new supplier relationships, a possible loss of market share on our current product portfolio, fines and penalties or difficulty attracting and retaining a skilled workforce.

Exchange rate fluctuations could adversely affect our company's global results of operations and financial condition.

As a result of our international operations, we are exposed to foreign currency risks that arise from our normal business operations, including risks associated with transactions that are denominated in currencies other than our local functional currencies. Gains and losses resulting from the remeasurement of assets and liabilities in a currency other than the functional currency of our foreign subsidiaries are reported in current period income. In the future, unfavorable changes in exchange rate relationships between the functional currencies of our subsidiaries and their non-functional currency denominated assets and liabilities could have an adverse impact on our results of operations and financial condition. While we use, from time to time, foreign currency derivative contracts to help mitigate certain of these risks and reduce the effects of fluctuations in exchange rates, our efforts to manage these risks may not be successful.

We are also subject to currency translation risk as we are required to translate the financial statements of our foreign subsidiaries to U.S. dollars. We report the effect of translation for our foreign subsidiaries with a functional currency other than the U.S. dollar as a separate component of stockholders' equity. Unfavorable changes in the exchange rate relationship between the U.S. dollar and the functional currencies of our foreign subsidiaries could have an adverse impact on our results of operations and financial condition.

Risks Related to Regulations and Taxes

Negative or unexpected tax consequences, as well as possible changes in foreign and domestic tax laws, could adversely affect our results of operations and financial condition.

The introduction of new laws or regulations, or changes in existing laws or regulations, or the interpretation thereof, could increase the costs of doing business for us, our customers or suppliers and adversely affect our results of operations and financial condition.

The Organisation for Economic Co-operation and Development (OECD) alongside the Group of Twenty (G-20), announced the OECD/G20 Inclusive Framework on Base Erosion and Profit Shifting (the Framework) which agreed to a two-pillar solution to address tax challenges arising from digitalization of the global economy. Under pillar two, the Framework provides for a global minimum corporate tax rate of 15%, calculated on a country-by-country basis. The Framework agreement must now be implemented by the OECD members who have agreed to the plan, effective in 2024. Although the OECD does not enact tax law, proposals like this or others may lead to substantial changes in enacted tax laws and treaties in the various countries in which we do business and could have a material adverse impact on our results of operations and financial condition.

In addition, there have been changes to tax laws in the U.S., including the introduction of provisions such as the Global Intangible Low-Taxed Income (GILTI) and Foreign Derived Intangible Income (FDII) provisions, that have increased the complexity of U.S. tax laws and have also increased volatility in our income tax expense and applicable tax rates. Further, GILTI and FDII may not be compliant with the OECD guidelines as drafted in the Framework under pillar two and it is uncertain whether the U.S. will amend these existing rules. Changes to these and other areas of domestic or international tax reform, including future actions taken by governmental authorities, could increase uncertainty and may adversely affect our tax rate, results of operations and cash flows in future years.

We file income tax returns in the U.S. federal jurisdiction, as well as various states and foreign jurisdictions. We are also subject to examinations of these income tax returns by the relevant tax authorities. Any negative or unexpected outcomes of these examinations and audits, or any resulting litigation, could have a material adverse impact on our results of operations and financial condition. See Note 9 - Income Taxes for additional discussion regarding examinations and audits of our tax returns and pending litigation.

Our business is subject to costs associated with environmental, health and safety regulations.

Our operations are subject to various federal, state, local and foreign laws and regulations governing, among other things, emissions to air, discharge to waters and the generation, handling, storage, transportation, treatment and disposal of waste and other materials. We believe that our current and former operations and facilities have been, and are being, operated in compliance, in all material respects, with such laws and regulations, many of which provide for substantial fines and criminal sanctions for violations. The operation of our manufacturing facilities entails risks in these areas, however, and there can be no assurance that we will not incur material costs or liabilities. In addition, potentially significant expenditures could be required in order to comply with evolving environmental, health and safety laws, regulations or other pertinent requirements that may be adopted or imposed in the future by governmental authorities.

Risks Related to Our Strategy

Our restructuring initiatives may not achieve their intended outcomes.

We have initiated restructuring actions in recent years to reduce cost and realign certain areas of our business and expect to initiate further restructuring actions in future periods. There can be no assurance that such restructuring initiatives will successfully achieve the intended outcomes, or that the charges related to such initiatives will not have a material adverse effect on our results of operations and financial condition.

As part of our strategic initiatives, we are actively assessing our product portfolio. As a result, we have divested certain operations and may pursue additional plans to divest certain operations in future periods. Our results of operations or financial condition could be adversely affected if we initiate a divestiture and it is not completed in accordance with our expected timeline, or at all, or if we do not realize the expected benefits of the divestiture.

We may be unable to consummate and successfully integrate acquisitions and joint ventures.

Engaging in acquisitions and joint ventures involves potential risks, including financial risks, risks related to integrating enterprise resource planning systems, and failure to successfully integrate and fully realize the expected benefits of such acquisitions and joint ventures. Integrating acquired operations is a significant challenge and there is no assurance that we will be able to manage integrations successfully. As we continue our diversification efforts, we may pursue strategic growth initiatives, including through acquisitions and joint ventures. An inability to successfully achieve the levels of organic and inorganic growth from our strategic initiatives could adversely impact our results of operations and financial condition.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

Cybersecurity Risk Management, Strategy and Governance

We rely upon information technology (IT) networks and systems to process, transmit and store electronic information, and to manage or support a variety of critical manufacturing and business processes or activities. Additionally, we and certain of our third-party vendors collect and store personal or confidential information, including personally identifiable information, in connection with human resources operations and other aspects of our business. The secure operation of these information technology networks and systems and the proper processing and maintenance of this information are critical to our manufacturing and business operations.

We have developed and implemented robust processes for identifying, assessing and managing risks from cybersecurity threats. Cybersecurity risk is included in AAM's "Top Risks Assessment" under our enterprise risk management program as identified and monitored by our Risk Management Working Group. This group is comprised of leadership from the major functions within AAM and the enterprise risk management program includes the identification and continuous evaluation of the risks associated with the systems and information most critical to AAM and the processes and controls in place to protect the systems and information.

In addition, the AAM Information Security Council (ISC), comprised of leadership representatives from across the organization, meets periodically to discuss current threats and trends and the resulting information security initiatives and priorities. The ISC members provide support for policy changes and insights into how the information security team can most effectively educate, communicate, and support AAM. The ISC is led by AAM's Chief Information Security Officer (CISO), our frontline business leader with regard to cybersecurity risk management. AAM's CISO has been an IT professional in various capacities for over 25 years and maintains the following certifications: Certified CISO, Certified Information Systems Security Professional, Certified Cloud Security Professional, and Certified Information Privacy Technologist.

Further, in support of our information security program, we utilize certain third-party service providers, primarily in the following capacities: 1) incident response partners that assist with performing incident simulations and who are available to assist in the event of an actual cybersecurity incident; 2) consultants to conduct penetration testing on AAM systems and certain third-party systems, as necessary; and 3) auditors to assist with testing IT controls and performing gap analysis over IT processes and procedures. AAM's CISO manages and monitors these third-party service provider relationships and works closely with AAM's information security, procurement, legal and internal audit departments to ensure proper evaluation and security assessment of critical third-party service providers and data processors.

Our Board of Directors and its committees play an active role in overseeing our key risks. Our cybersecurity risk management processes and strategy are governed by the Audit Committee of our Board of Directors. Management provides quarterly reports to the Audit Committee that include, among other items: 1) AAM's cybersecurity scorecard, which includes certain key performance indicators (KPIs) and provides quantitative measures of these KPIs; 2) industry security trends and outlook; 3) an update on AAM's security program and roadmap; 4) current quarter IT security accomplishments; and 5) IT security priorities for the following quarter. In addition, on an annual basis, management reports to the Audit Committee the results of our system availability and disaster recovery testing for AAM's enterprise systems, as well as the results of our incident response testing and corresponding action plans.

Although no cybersecurity incidents during the year ended December 31, 2023 had a material impact on our strategy, financial condition or results of operations, the scope and impact of any future incident cannot be predicted. See Item 1A. Risk Factors for additional discussion regarding AAM's IT and cybersecurity risks.

Item 2. Properties

The table below summarizes our global manufacturing locations and administrative, engineering or technical locations:

Country	Manufacturing		Corporate, Business Offices, Engineering and Technical Centers
	Driveline	Metal Forming	
Brazil	1	4	—
China	4	1	2
Czech Republic	—	3	—
England	1	—	—
France	2	—	—
Germany	1	5	1
India	3	—	2
Japan	—	—	1
Luxembourg	—	—	1
Mexico	7	(a)	6
Poland	1	—	—
Romania	—	1	—
Scotland	1	—	—
South Korea	1	—	—
Spain	1	1	—
Sweden	—	—	1
Thailand	1	—	—
United States of America	2	21	5
Total	26	42	13

(a) The seven Driveline locations in Mexico include our Guanajuato Manufacturing Complex, which is comprised of six plants.

We believe that our property and equipment is properly maintained and in good operating condition. We will continue to evaluate capacity requirements in light of current and projected market conditions. We also intend to continue redeploying assets in order to increase our capacity utilization and reduce future capital expenditures to support program launches.

Item 3. Legal Proceedings

See Note 9 - Income Taxes and Note 11 - Commitments and Contingencies in Item 8, "Financial Statements and Supplementary Data" for discussion of legal proceedings and the effect on AAM.

Item 4. Mine Safety Disclosures

Not applicable.

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Information

Our common stock, par value \$0.01 per share, is listed for trading on the New York Stock Exchange (NYSE) under the symbol "AXL." We had approximately 151 stockholders of record as of February 13, 2024.

Dividends

We did not declare or pay any cash dividends on our common stock in 2023. Our Amended and Restated Credit Agreement associated with our Senior Secured Credit Facilities limits our ability to declare or pay dividends or distributions on capital stock.

Securities Authorized for Issuance under Equity Compensation Plans

The information regarding our securities authorized for issuance under equity compensation plans is incorporated by reference from our Proxy Statement.

Item 6. [Reserved]

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A)

COMPANY OVERVIEW

As a leading global tier 1 automotive and mobility supplier, AAM designs, engineers and manufactures Driveline and Metal Forming technologies to support electric, hybrid and internal combustion vehicles. Headquartered in Detroit with over 80 facilities in 18 countries, AAM is bringing the future faster for a safer and more sustainable tomorrow.

We are a primary supplier of driveline components to General Motors Company (GM) for its full-size rear-wheel drive (RWD) light trucks, sport utility vehicles (SUV), and crossover vehicles manufactured in North America, supplying a significant portion of GM's rear axle and four-wheel drive and all-wheel drive (4WD/AWD) axle requirements for these vehicle platforms. We also supply GM with various products from our Metal Forming segment. Sales to GM were approximately 39% of our consolidated net sales in 2023, 40% in 2022, and 37% in 2021.

We also supply driveline system products to Stellantis N.V. (Stellantis) for programs including the heavy-duty Ram full-size pickup trucks and its derivatives. In addition, we sell various products to Stellantis from our Metal Forming segment. Sales to Stellantis were approximately 16% of our consolidated net sales in 2023, 18% in 2022 and 19% in 2021.

We are also a supplier to Ford Motor Company (Ford) for driveline system products on certain vehicle programs including the Bronco Sport, Maverick, Edge, Escape and Lincoln Nautilus, and we also sell various products to Ford from our Metal Forming segment. Sales to Ford were approximately 12% of our consolidated net sales in 2023, 2022 and 2021.

No other customer represented 10% or more of consolidated net sales during these periods.

Work Stoppage of the International Union, United Automobile, Aerospace and Agricultural Implement Workers of America (UAW Work Stoppage)

In the third quarter of 2023, the collective bargaining agreements between the UAW and our three largest customers expired and the UAW initiated work stoppages at certain of the manufacturing locations of these customers. The work stoppages continued into the fourth quarter of 2023 and we estimate that the total third and fourth quarter impact on our sales and pre-tax income of the UAW Work Stoppage was approximately \$99 million and \$27 million, respectively.

New labor agreements between the UAW and our three largest customers were ratified in November 2023 and resulted in compensation increases for the UAW associates. There can be no assurance that such future negotiations, whether between AAM and the labor unions representing certain of our hourly associates or between our customers or suppliers and the labor unions representing certain of their hourly associates, will not result in additional labor cost increases or other terms and conditions that could adversely affect our results of operations and financial condition, our ability to compete for future business or our ability to attract and retain qualified associates.

Supply Chain Constraints Impacting the Automotive Industry

The automotive industry continues to experience significant disruptions in the supply chain, including volatility in metal, commodity and utility costs, increased transportation costs, higher labor costs and labor shortages. As a result, we have continued to experience volatility in our production schedules, including manufacturing downtime, often with limited notice from customers, higher inventory levels and increased labor costs, which have negatively impacted our results of operations and cash flows during these periods. In addition, during 2023, we experienced lower margins at certain of our locations as a result of production inefficiencies and capacity constraints due, in part, to labor shortages impacting our operations. We continue to work with customers and suppliers in our effort to protect continuity of supply as we expect these challenges to continue in 2024. Due to the ongoing uncertainty associated with these supply chain constraints, the ultimate impact on our net sales, results of operations and cash flows is unknown.

INDUSTRY TRENDS

There are a number of significant trends affecting the markets in which we compete. Intense competition, volatility in the price of raw materials, including steel, aluminum, and other metallic materials, and resources used in vehicle electrification and electronic components, labor shortages and increased labor costs, fluctuations in exchange rates and interest rates and significant pricing pressures remain. At the same time, there is a focus on investing in future products that will incorporate the latest technology and meet changing customer demands as certain original equipment manufacturers (OEMs) place increased emphasis on the development of battery and hybrid electric vehicles. The ability to respond timely to the continued advancement of technology and product innovation, as well as the ability to enhance cost reduction initiatives and continue to source programs on a global basis, are critical to attracting and retaining business in our global markets.

INDUSTRY SHIFT TO VEHICLE ELECTRIFICATION AND INCREASED DEMAND FOR EMISSIONS REDUCTIONS The electrification of vehicles continues to expand, driven by a shift in focus by certain OEMs toward battery and hybrid electric vehicles, government regulations related to emissions, such as the Corporate Average Fuel Economy standards, and consumer demand for greater vehicle performance, enhanced functionality, increased electronic content and vehicle connectivity, reduced environmental impact and affordable convenience options. As vehicle electrification and electronic components become an increasingly larger focus for OEMs and suppliers, the industry has seen, and will likely continue to see, competition to develop and market new and alternative technologies and fuel types, including from new market entrants such as non-traditional automotive companies and technology companies. Further, some traditional automotive industry participants are developing strategic partnerships with technology companies as each party seeks to leverage the existing customer relationships and technical knowledge of the partner, and expedite the development and commercialization of this new technology.

An area of focus will be the product development cycle and bridging the gap between the shorter development cycles of information technology (IT) software and controls and the longer development cycles of traditional powertrain components. OEMs and suppliers are developing new products, such as hybrid and electric vehicles and the associated vehicle components, and are improving existing products to reduce emissions through lightweighting and efficiency initiatives, such as higher speed transmissions, and downsized engines. The success and continued growth of vehicle electrification will be dependent, in part, on the industry's ability to overcome various barriers to adoption of electric vehicles, including end user acceptance, higher vehicle cost, limited offerings, safety concerns and a lack of necessary vehicle charging infrastructure.

We are responding, in part, with ongoing research and development (R&D) activities to develop hybrid and electric driveline systems and related subsystems and components. Since 2020, AAM has been awarded five PACE Awards demonstrating our innovation leadership in electrification. These awards include a PACE award as well as a PACE Innovation Partnership award related to AAM's electric drive technology on the Mercedes-AMG GT 63 S E Performance and a PACEpilot Innovation to Watch award for our highly integrated three-in-one wheel-end electric drive unit in 2022, and a PACE Innovation Award and a PACE Partnership Award for the front and rear electric drive units featured on the Jaguar all-electric AWD crossover vehicle in 2020.

We have continued to enhance our product portfolio to allow us to meet our customers' needs for high performance vehicles with reduced emissions and reduced environmental impact. Through our e-drive systems, e-Beam axle technology, lightweight axles, high-efficiency axles, all-wheel drive systems, high-strength connecting rod technology and refined vibration control systems, we have significantly advanced our efforts to improve ride and handling performance, while reducing emissions and mass. To date, our hybrid and electric driveline systems have been awarded multiple contracts and received multiple awards, and our efforts have positioned us to compete in the evolving global marketplace.

INCREASED FOCUS ON ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) INITIATIVES AND REPORTING There has been a growing focus on ESG initiatives and reporting, including those related to Diversity, Equity, and Inclusion (DEI), by industry stakeholders, including customers, suppliers, providers of debt and equity capital, regulators and those in the workforce. These topics are increasingly driving decisions made by our stakeholders. Particularly within the automotive industry, trends toward electrification and reduced emissions have increased focus on the environmental impact of OEMs and suppliers. The ability of OEMs and suppliers to continually communicate and meet expectations on ESG programs and initiatives, and comply with expanding regulatory requirements, will impact their competitive advantage to attract and retain business, as well as a skilled workforce.

We have responded to this trend by implementing and launching programs and initiatives addressing each topic under ESG, such as E⁴ (E-to-the-fourth), AAM's energy and environmental sustainability program to drive continuous improvement in our operations by reducing energy consumption, greenhouse gas (GHG) emissions and water use while minimizing waste and lessening the environmental impact of our production operations. Also, as part of our continued focus on reducing GHG emissions, we have committed to reaching net-zero carbon emissions by 2040, and have received the validation of our net-zero emissions targets by the climate-action organization Science Based Targets Initiative (SBTi). The SBTi is a partnership between CDP (formerly known as the Climate Disclosure Project), the United Nations Global Compact, World Resources Institute (WRI) and the World Wide Fund for Nature (WWF) that drives ambitious climate action in the private sector by enabling companies to set greenhouse gas emissions reduction targets that are in line with what the latest climate science deems necessary to meet the goals of international agreements on climate change, such as the Paris Agreement.

AAM's commitment to DEI begins with our Board of Directors (Board). The Board's active oversight reflects the importance of our DEI journey to our business and demonstrates the power of accountability to this critical initiative. With oversight from our Board and direction from senior leadership, our DEI Steering Committee (DEI Committee) helps to ensure that our initiatives are guided by the experiences and recommendations of our associates. Comprised of talented and diverse associates, the DEI Committee helps develop new company initiatives designed to advance a respectful and inclusive company culture and to reinforce the importance of inclusion at AAM. Refer to Item 1. Business - *Human Capital Management*, for specific DEI highlights.

An in-depth review of non-financial metrics and strategies related to our ESG initiatives and programs is included in our annual Sustainability Report, which includes more details on our sustainability programs, initiatives and future objectives. This report and other ESG areas of focus, such as AAM's leadership, are made available to stakeholders through our company website. While evolving expectations, expanding regulatory requirements and reporting standards are driving increased ESG reporting, this trend aligns with our cultural values and commitment to profitably grow our business in a way that is sustainable and socially responsible.

CONSUMER PREFERENCE AND OEM PRODUCTION FAVORING LIGHT TRUCKS, CROSS-OVER VEHICLES (CUVs) AND SPORT-UTILITY VEHICLES (SUVs) There continues to be increased demand for light trucks, CUVs and SUVs in certain markets, while demand for passenger cars has decreased. This increase in demand for light trucks, CUVs and SUVs has been driven by changes in consumer preference as technology advancements have made these vehicles lighter and more efficient. Certain OEMs are responding to this change in consumer preference by shifting their focus to developing and manufacturing these types of vehicles, resulting in a significant reduction of passenger car vehicle programs, especially in North America. We have benefited from this trend as a significant portion of our business supports light truck, CUV and SUV programs in North America.

GLOBAL AUTOMOTIVE PRODUCTION AND INDUSTRY CONSOLIDATION Our customers continue to design their products to meet demand in global markets and therefore require global support from their suppliers. For this reason, it is critical that suppliers maintain a global presence in these markets in order to compete for new contracts. We have business and engineering offices around the world to support our global locations and provide technical solutions to our customers on a regional basis, including in North America, which represents the largest portion of our core business, as well as in China and Europe where consumer acceptance of electric vehicles has been stronger.

The cyclical nature of the automotive industry, volatile commodity prices, the shifting demands of consumer preference, regulatory requirements and trade agreements require OEMs and suppliers to remain agile with regard to product development and global capability. A critical objective for OEMs and suppliers is the ability to meet these global demands while effectively managing costs. Some OEMs and suppliers may be preparing for these challenges through merger and acquisition activity, development of strategic partnerships and reduction of vehicle platform complexity. In order to effectively drive technology development, recognize cost synergies, and increase global footprint, the industry may continue to see consolidation in the supply base as companies recognize and respond to the need for scalability.

In addition to AAM's technology development relationships and organic growth in technology and processes, our joint venture partnerships and strategic acquisitions, including the Tekfor acquisition during 2022, have provided us with complementary technologies, expanded our product portfolio, diversified our global customer base, and strengthened our long-term financial profile through greater scale. The synergies achieved, or expected to be achieved through our strategic initiatives, enhance AAM's ability to compete in today's technological and regulatory environment, while remaining cost competitive through increased scale and integration.

EVOLUTION OF THE AUTOMOTIVE INDUSTRY AS DEMAND FOR AUTONOMOUS VEHICLES AND RIDE-SHARING INCREASES A developing trend is the expectation that autonomous, self-driving cars are expected to become more common with continued advancements in technology, including applications such as last mile delivery. Autonomous vehicles present many possible benefits, such as a reduction in traffic collisions caused by human error and reduced traffic congestion, but there are also foreseeable challenges such as liability for damage and software safety and reliability. The increased integration of electronics and vehicle connectivity that will likely be required in autonomous vehicle developments will provide an opportunity for suppliers with advanced capabilities in this area to be competitive in this expanding market.

With population growth, increased government regulations to ease congestion and generational shifts in preferences, it is expected that the markets for autonomous vehicles and ride-sharing services will continue to grow, which could cause a change in the type of vehicles utilized. However, the growth in these areas will be dependent on, among other things, cost and availability to end users, continued establishment of infrastructure and advancements in technological capabilities.

VOLUMES AND OUTLOOK

Our results of operations, financial condition and cash flows are significantly impacted by fluctuations in production volumes on the vehicle programs that we support. The following table represents historical and forecasted light vehicle production volumes in North America as our business is most significantly impacted by production volume fluctuations in this region. As our business is dependent on certain automotive segments, primarily the light truck, SUV and CUV segments, production volume fluctuations for the light vehicle market as a whole may not necessarily be indicative of the vehicle programs that we support.

(units in millions, except percentages)

	2024 Outlook	% change	2023	% change	2022
North America	15.8	1.3 %	15.6	9.1 %	14.3

Source: S&P Global Mobility, January 2024

Production volumes in North America increased in 2023, as compared to 2022, as the impact of supply chain constraints lessened. We expect production volumes in North America to be approximately 15.8 million units in 2024 and we expect volumes in all other geographic regions in which we operate to be flat to modest increases as compared to 2023.

The discussion of our Results of Operations, Reportable Segments, and Liquidity and Capital Resources for 2022, as compared to 2021, can be found within "Part II - Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations" in our 2022 Annual Report on Form 10-K filed with the Securities and Exchange Commission (SEC) on February 17, 2023, which discussion is incorporated herein by reference.

RESULTS OF OPERATIONS

NET SALES

(in millions)	Year Ended December 31,			
	2023	2022	Change	Percent Change
Net sales	\$ 6,079.5	\$ 5,802.4	\$ 277.1	4.8 %

The increase in net sales in 2023, as compared to 2022, primarily reflects approximately \$193 million as a result of our acquisition of Tekfor that was completed in June of 2022 and increased production volumes on certain vehicle programs that we support, including those associated with program launches in 2023 from our new and incremental business backlog. These increases were partially offset by a reduction in sales of approximately \$107 million associated with the net effect of metal market pass-throughs to our customers and the impact of foreign exchange related to translation adjustments.

COST OF GOODS SOLD

(in millions)	Year Ended December 31,			
	2023	2022	Change	Percent Change
Cost of goods sold	\$ 5,455.2	\$ 5,097.5	\$ 357.7	7.0 %

The change in cost of goods sold reflects approximately \$196 million as a result of our acquisition of Tekfor that was completed in June of 2022. The remainder of the change in cost of goods sold primarily reflects the impact of increased production volumes, as well as increased manufacturing costs, primarily labor costs, and the impact of production inefficiencies at certain of our locations due, in part, to labor shortages. For the year ended December 31, 2023, material costs were approximately 57% of total cost of goods sold, as compared to approximately 60% for the year ended December 31, 2022. The decrease in material costs as a percentage of cost of goods sold was primarily the result of lower metal costs and increased labor costs in 2023, as compared to 2022.

GROSS PROFIT

(in millions)	Year Ended December 31,			
	2023	2022	Change	Percent Change
Gross profit	\$ 624.3	\$ 704.9	\$ (80.6)	(11.4)%

Gross margin was 10.3% in 2023 as compared to 12.1% in 2022. Gross profit and gross margin were impacted by the factors discussed in Net sales and Cost of goods sold above.

SELLING, GENERAL AND ADMINISTRATIVE EXPENSES (SG&A)

(in millions)	Year Ended December 31,			
	2023	2022	Change	Percent Change
Selling, general and administrative expenses ...	\$ 366.9	\$ 345.1	\$ 21.8	6.3 %

SG&A as a percentage of net sales was 6.0% in 2023 as compared to 5.9% in 2022. R&D expense, net of engineering, design and development recoveries, was \$155.4 million in 2023, as compared to \$144.0 million in 2022. In addition to the increase in R&D expense, the change in SG&A expense in 2023, as compared to 2022, was primarily attributable to increased compensation-related expense, including approximately \$4.0 million associated with the impact of an additional five months of expense in 2023 for Tekfor as we completed the acquisition in June of 2022.

AMORTIZATION OF INTANGIBLE ASSETS Amortization expense for the year ended December 31, 2023 was \$85.6 million as compared to \$85.7 million for the year ended December 31, 2022.

RESTRUCTURING AND ACQUISITION-RELATED COSTS Restructuring and acquisition-related costs were \$25.2 million in 2023 and \$30.2 million in 2022. As part of our restructuring actions, we incurred severance charges of approximately \$7.2 million, as well as implementation costs, consisting primarily of plant exit costs and professional fees, of approximately \$11.1 million during 2023. In 2022, we incurred severance charges of approximately \$3.5 million, as well as implementation costs, consisting primarily of plant exit costs and professional fees, of approximately \$18.2 million. We expect to incur approximately \$10 million to \$20 million of total restructuring costs in 2024.

We incurred integration charges of \$6.9 million in 2023 as we furthered the integration of Tekfor. This compares to \$8.5 million of acquisition-related costs and integration charges incurred in 2022 primarily related to the acquisition of Tekfor. Acquisition-related costs primarily consist of advisory, legal, accounting, valuation and certain other professional or consulting fees incurred, and integration expenses primarily reflect costs for information technology infrastructure and enterprise resource planning systems, and consulting fees incurred in conjunction with integration activities. We expect to incur up to \$5 million of integration costs in 2024 as we complete our integration activities related to the Tekfor acquisition. See Note 2 - Restructuring and Acquisition-Related Costs for further detail.

OPERATING INCOME Operating income was \$146.6 million in 2023 as compared to \$243.9 million in 2022. Operating margin was 2.4% in 2023 as compared to 4.2% in 2022. The changes in operating income and operating margin in 2023, as compared to 2022, were primarily due to the factors discussed in Net sales, Cost of goods sold and SG&A above.

INTEREST EXPENSE Interest expense was \$201.7 million in 2023 and \$174.5 million in 2022. The change in interest expense in 2023, as compared to 2022, was primarily the result of increased interest rates on our variable rate debt as the weighted-average interest rate of our total debt outstanding was 6.8% in 2023 and 5.7% in 2022. We expect our interest expense in 2024 to be approximately \$190 million to \$200 million.

INTEREST INCOME Interest income was \$26.2 million in 2023 and \$17.0 million in 2022. Interest income primarily includes interest earned on cash and cash equivalents, the deferred payment obligation associated with the sale of our former Casting segment, as well as the impact of the interest rate differential on our fixed-to-fixed cross-currency swap. The increase in interest income in 2023, as compared to 2022, is primarily attributable to increased interest rates on our cash and cash equivalents.

OTHER INCOME (EXPENSE) Following are the components of Other Income (Expense) for 2023 and 2022:

Debt refinancing and redemption costs In 2023, we made voluntary prepayments totaling \$26.0 million on our Term Loan A Facility and \$20.2 million on our Term Loan B Facility. As a result, we expensed approximately \$1.1 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of these borrowings.

In the fourth quarter of 2023, we voluntarily redeemed a portion of our 6.25% Notes due 2026. This resulted in a principal payment of \$50.0 million and \$0.9 million in accrued interest. We also expensed approximately \$0.2 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of this borrowing.

In March 2022, we entered into the Amended and Restated Credit Agreement (Amended and Restated Credit Agreement). As a result, we expensed \$0.2 million of debt refinancing costs related to the Amended and Restated Credit Agreement in 2022. See Note 4 - Long-Term Debt for further detail on the Amended and Restated Credit Agreement.

In December 2022, we entered into the Refinancing Facility Agreement No.1 (Refinancing Facility Agreement), under the Amended and Restated Credit Agreement and established a new Term Loan B Facility of \$675.0 million. As a result, we expensed \$0.4 million of debt refinancing costs related to the Refinancing Facility Agreement. See Note 4 - Long-Term Debt for further detail on the Refinancing Facility Agreement.

In 2022, prior to entering into the Refinancing Facility Agreement, we made voluntary prepayments totaling \$100.0 million on our then outstanding term loan B facility. As a result, we expensed approximately \$0.6 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of this borrowing.

Also in 2022, we used the proceeds from our upsized Term Loan A Facility to voluntarily redeem a portion of our 6.25% Notes due 2026. This resulted in a principal payment of \$220.0 million and \$0.2 million in accrued interest. We also expensed approximately \$1.8 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of the borrowing, and approximately \$3.4 million for the payment of an early redemption premium.

Gain on bargain purchase of business On June 1, 2022, our acquisition of Tekfor became effective, which resulted in a gain on bargain purchase of \$13.6 million for the year ended December 31, 2022. See Note 16 - Acquisitions and Dispositions for additional detail on this acquisition.

Pension curtailment and settlement charges For the year ended December 31, 2023, we recognized \$1.3 million of pension curtailment and settlement charges primarily associated with certain restructuring activities initiated in 2023.

Unrealized gain (loss) on equity securities We have an investment in the equity securities of REE Automotive, an e-mobility company. These equity securities are measured at fair value each reporting period with changes in fair value reported as an unrealized holding gain or loss within Other income (expense), net in our Consolidated Statements of Operations. As of December 31, 2023, our investment in REE shares was valued at \$0.8 million resulting in an unrealized loss of \$1.1 million for the year ended December 31, 2023. This compares to an unrealized loss of \$25.5 million associated with our investment in REE shares for the year ended December 31, 2022.

Other income (expense), net We include the net effect of foreign exchange gains and losses, our proportionate share of earnings from equity in unconsolidated subsidiaries, and all components of net periodic pension and postretirement benefit costs other than service costs in Other income (expense), net, which was income of \$8.1 million in 2023, as compared to expense of \$1.8 million in 2022.

INCOME TAX EXPENSE Income tax expense was \$9.1 million in 2023, as compared to \$2.0 million in 2022. Our effective income tax rate was (37.1)% in 2023, as compared to 3.0% in 2022. In the year ended December 31, 2023, we recognized income tax expense of approximately \$36.1 million attributable to both increased valuation allowances on disallowed interest expense in the U.S., as well as net income tax expense resulting from various changes in determinations related to the potential realization of deferred tax assets and the resulting establishment of, and release of, valuation allowances in certain foreign jurisdictions. These income tax expenses were partially offset by a net income tax benefit of approximately \$26.1 million resulting from various internal reorganization and restructuring actions during the year, which in turn was partially offset by the associated impact on our foreign derived intangible income and disallowed interest deductions in the U.S. In the year ended December 31, 2022, we recognized a net income tax benefit of \$7.5 million related to the release of a valuation allowance in a foreign jurisdiction.

Our effective income tax rate for the year ended December 31, 2023 varies from our effective income tax rate for the year ended December 31, 2022 primarily as a result of the impact of the discrete items noted above, the mix of earnings on a jurisdictional basis, and as a result of the \$13.6 million gain on bargain purchase of business as a result of the Tekfor acquisition in 2022, which was not subject to income tax.

For the year ended December 31, 2023, our effective income tax rate varies from the U.S. federal statutory rate primarily as a result of the impact of the discrete items noted above, as well as favorable foreign tax rates and the impact of tax credits. For the year ended December 31, 2022, our effective income tax rate varies from the U.S. federal statutory rate primarily due to the gain on bargain purchase of business, the discrete items noted above and the benefit from foreign derived intangible income deductions in the U.S.

Due to the uncertainty associated with the extent and ultimate impact of the significant supply chain constraints affecting the automotive industry, as well as the potential impact of geopolitical conflicts or events and macroeconomic factors, including sustained or increased inflation, we may experience lower than projected earnings in certain jurisdictions in future periods, and as a result, it is reasonably possible that changes in valuation allowances could be recognized in future periods and such changes could be material to our financial statements.

NET INCOME (LOSS) AND EARNINGS (LOSS) PER SHARE (EPS) Net loss was \$33.6 million in 2023 as compared to net income of \$64.3 million in 2022. Diluted loss per share was \$0.29 in 2023 as compared to diluted income per share of \$0.53 in 2022. Net income (loss) and EPS were primarily impacted by the factors discussed above.

SEGMENT REPORTING

Our business is organized into Driveline and Metal Forming segments, with each representing a reportable segment under Accounting Standards Codification (ASC) 280 - *Segment Reporting*. The results of each segment are regularly reviewed by the chief operating decision maker to assess the performance of the segment and make decisions regarding the allocation of resources to the segments.

Our product offerings by segment are as follows:

- Driveline products consist primarily of front and rear axles, driveshafts, differential assemblies, clutch modules, balance shaft systems, disconnecting driveline technology, and electric and hybrid driveline products and systems for light trucks, SUVs, CUVs, passenger cars and commercial vehicles; and
- Metal Forming products consist primarily of engine, transmission, driveline and safety-critical components for traditional internal combustion engine and electric vehicle architectures including light vehicles, commercial vehicles and off-highway vehicles, as well as products for industrial markets.

In the first quarter of 2023, we moved a plant location that was previously reported under our Driveline segment to our Metal Forming segment in order to better align our product and process technologies. The amounts in the tables below for years ended December 31, 2022 and December 31, 2021 have been recast to reflect this reorganization.

On June 1, 2022, our acquisition of Tekfor became effective and we began consolidating the results of Tekfor on that date, which are reported in our Metal Forming segment for the years ended December 31, 2023 and December 31, 2022.

The following tables outline our sales and Segment Adjusted EBITDA for each of our reportable segments for the years ended December 31, 2023, 2022 and 2021 (*in millions*):

	Year Ended December 31, 2023		
	Driveline	Metal Forming	Total
Sales	\$ 4,176.7	\$ 2,454.3	\$ 6,631.0
Less: Intersegment sales	0.2	551.3	551.5
Net external sales	\$ 4,176.5	\$ 1,903.0	\$ 6,079.5
Segment adjusted EBITDA	\$ 543.6	\$ 149.7	\$ 693.3
	Year Ended December 31, 2022		
	Driveline	Metal Forming	Total
Sales	\$ 4,063.5	\$ 2,280.7	\$ 6,344.2
Less: Intersegment sales	—	541.8	541.8
Net external sales	\$ 4,063.5	\$ 1,738.9	\$ 5,802.4
Segment adjusted EBITDA	\$ 510.9	\$ 236.4	\$ 747.3
	Year Ended December 31, 2021		
	Driveline	Metal Forming	Total
Sales	\$ 3,695.3	\$ 1,912.8	\$ 5,608.1
Less: Intersegment sales	0.2	451.3	451.5
Net external sales	\$ 3,695.1	\$ 1,461.5	\$ 5,156.6
Segment adjusted EBITDA	\$ 541.8	\$ 291.5	\$ 833.3

The increase in Driveline sales for the year ended December 31, 2023, as compared to the year ended December 31, 2022, is primarily the result of increased production volumes on certain vehicle programs that we support, including those associated with program launches in 2023 from our new and incremental business backlog. For the year ended December 31, 2023, as compared to the year ended December 31, 2022, there was a reduction in Driveline sales of approximately \$76 million associated with the effect of metal market pass-throughs to our customers and the impact of foreign exchange translation.

The increase in Metal Forming sales for the year ended December 31, 2023, as compared to the year ended December 31, 2022, primarily reflects approximately \$193 million associated with the acquisition of Tekfor, as well as the impact of increased production volumes on certain vehicle programs that we support. These increases were partially offset by a net reduction of approximately \$31 million associated with the effect of metal market pass-throughs to our customers and the impact of foreign exchange translation.

We use Segment Adjusted EBITDA as the measure of earnings to assess the performance of each segment and determine the resources to be allocated to the segments. For the year ended December 31, 2023, as compared to the year ended December 31, 2022, the increase in Segment Adjusted EBITDA for the Driveline segment was primarily attributable to the impact of increased production volumes on certain vehicle programs that we support, as well as an increase of approximately \$21 million attributable to the net effect of metal market pass-throughs to our customers and the impact of foreign exchange translation. These favorable impacts were partially offset by increased labor costs and program launch costs.

For the year ended December 31, 2023, as compared to the year ended December 31, 2022, Segment Adjusted EBITDA for the Metal Forming segment was reduced by approximately \$14 million as a result of the effect of metal market pass-throughs to our customers and the impact of foreign exchange translation. In 2023, Metal Forming Segment Adjusted EBITDA was also impacted by \$7 million of expense related to a field action with one of our largest customers. The remainder of the change in Segment Adjusted EBITDA for the Metal Forming segment was attributable to increased manufacturing costs, primarily labor costs, as well as the impact of production inefficiencies at certain of our locations due, in part, to labor shortages.

Reconciliation of Non-GAAP and GAAP Information

In addition to results reported in accordance with accounting principles generally accepted in the United States of America (GAAP) in this MD&A, we have provided certain non-GAAP financial measures such as EBITDA and Total Segment Adjusted EBITDA. Such information is reconciled to its closest GAAP measure in accordance with Securities and Exchange Commission rules below.

We define EBITDA to be earnings before interest expense, income taxes, depreciation and amortization. Total Segment Adjusted EBITDA is defined as EBITDA for our reportable segments excluding the impact of restructuring and acquisition-related costs, debt refinancing and redemption costs, loss on the sale of a business, unrealized gains or losses on equity securities, pension curtailment and settlement charges and non-recurring items. We believe that EBITDA and Total Segment Adjusted EBITDA are meaningful measures of performance as they are commonly utilized by management and investors to analyze operating performance and entity valuation. Our management, the investment community and the banking institutions routinely use EBITDA and Total Segment Adjusted EBITDA, together with other measures, to measure our operating performance relative to other Tier 1 automotive suppliers and to assess the relative mix of Adjusted EBITDA by segment. We also believe that Total Segment Adjusted EBITDA is a meaningful measure as it is used for operational planning and decision-making purposes. EBITDA and Total Segment Adjusted EBITDA are also key metrics used in our calculation of incentive compensation. These non-GAAP financial measures are not and should not be considered a substitute for any GAAP measure. Additionally, non-GAAP financial measures as presented by AAM may not be comparable to similarly titled measures reported by other companies.

	Year Ended December 31,		
	2023	2022	2021
	<i>(in millions)</i>		
Net income (loss)	\$ (33.6)	\$ 64.3	\$ 5.9
Interest expense	201.7	174.5	195.2
Income tax expense (benefit)	9.1	2.0	(4.7)
Depreciation and amortization	487.2	492.1	544.3
EBITDA	\$ 664.4	\$ 732.9	\$ 740.7
Restructuring and acquisition-related costs	25.2	30.2	49.4
Debt refinancing and redemption costs	1.3	6.4	34.0
Loss on sale of business	—	—	2.7
Unrealized loss (gain) on equity securities	1.1	25.5	(24.4)
Pension curtailment and settlement charges	1.3	—	42.3
Non-recurring items:			
Malvern Fire insurance recoveries, net of charges	—	(39.1)	(11.4)
Gain on bargain purchase of business	—	(13.6)	—
Acquisition-related fair value inventory adjustment	—	5.0	—
Total Segment Adjusted EBITDA	\$ 693.3	\$ 747.3	\$ 833.3

LIQUIDITY AND CAPITAL RESOURCES

Our primary liquidity needs are to fund debt service obligations, capital expenditures, R&D spending, including further development of our electrification product portfolio, and working capital requirements, in addition to advancing our strategic initiatives. At December 31, 2023 we had approximately \$1.5 billion of liquidity consisting of approximately \$520 million of cash and cash equivalents, approximately \$892 million of available borrowings under our Revolving Credit Facility and approximately \$85 million of available borrowings under foreign credit facilities. We have no significant debt maturities before 2026. We believe that operating cash flow, available cash and cash equivalent balances and available committed borrowing capacity under our Senior Secured Credit Facilities and foreign credit facilities will be sufficient to meet these needs.

OPERATING ACTIVITIES Net cash provided by operating activities was \$396.1 million in 2023 as compared to \$448.9 million in 2022. The following factors impacted cash provided by operating activities:

Impact of Supply Chain Constraints In both 2023 and 2022, we experienced an adverse impact on cash flows from operating activities as a result of the significant supply chain constraints that continued to impact the automotive industry, including volatility in metal, commodity and utility costs, shortages of certain raw materials and components, increased transportation costs, higher labor costs and labor shortages. We expect these supply chain constraints and the associated volatility in our operations to continue into 2024.

Accounts receivable For the year ended December 31, 2023, we experienced an increase in cash flow from operating activities of approximately \$46 million related to the change in our accounts receivable balance from December 31, 2022 to December 31, 2023, as compared to the change in our accounts receivable balance from December 31, 2021 to December 31, 2022. This change was primarily attributable to the timing of sales to customers in the applicable periods. The change was also the result of timing of collections on customer receivables as we participate in an early payment program offered by our largest customer, which allows us to sell certain of our North American receivables from this customer to a third party at our discretion. We utilize this program from time to time.

Other assets and liabilities For the year ended December 31, 2023, we experienced an increase in cash flow from operating activities of \$27.2 million related to our variable-to-fixed interest rate swaps which were discontinued in the third quarter of 2023 and were in an asset position on the date that they were discontinued.

Interest paid Interest paid in 2023 was \$186.4 million as compared to \$172.6 million in 2022. The change in interest paid was primarily the result of increased interest rates on our variable rate debt. See Note 4 - Long-Term Debt for additional detail.

Income taxes Income taxes paid, net was \$54.9 million in 2023, as compared to \$40.4 million in 2022. In 2023, we paid \$10.1 million as a result of the Notice of Tax Due that was received from the Internal Revenue Service in the fourth quarter of 2022. See Note 9 - Income Taxes for additional detail regarding the Notice of Tax Due. In 2022, we received an income tax refund of \$5.4 million related to the utilization of net operating losses under the provisions of the CARES Act.

As of December 31, 2023 and December 31, 2022, we have recorded a liability for unrecognized income tax benefits and related interest and penalties of \$38.1 million and \$40.5 million, respectively.

Restructuring and acquisition-related costs We incurred \$25.2 million and \$30.2 million of charges related to restructuring and acquisition-related costs in 2023 and 2022, respectively, and a significant portion of these charges were cash charges. In 2024, we expect restructuring and acquisition-related payments to be between \$15 million and \$25 million for the full year.

Pension and other postretirement benefits (OPEB) Our cash payments for OPEB, net of GM cost sharing, were \$12.5 million in 2023 and \$11.9 million in 2022. This compares to our annual postretirement cost of \$1.3 million in 2023 and \$8.3 million in 2022. We expect our cash payments for OPEB obligations in 2024, net of GM cost sharing, to be approximately \$11.0 million.

Due to the availability of our pre-funded pension balances (previous contributions in excess of prior required pension contributions), we expect our regulatory pension funding requirements in 2024 to be less than \$1.0 million.

Malvern Fire In 2023 and 2022, we received \$24.0 million and \$29.1 million, respectively, of cash reimbursements and advances under our insurance policies, of which \$7.0 million and \$12.1 million, respectively, were associated with operating expenses incurred as a result of the Malvern Fire and have been presented as operating cash inflows in our Consolidated Statements of Cash Flows for these periods. See Note 15 - Manufacturing Facility Fire and Insurance Recovery for additional detail.

INVESTING ACTIVITIES For the year ended December 31, 2023, net cash used in investing activities was \$184.5 million as compared to \$243.0 million for the year ended December 31, 2022. Capital expenditures were \$194.6 million in 2023 and \$171.4 million in 2022. We expect our capital spending in 2024 to be 4.0% to 4.5% of sales, which includes support for our global program launches in 2024 and 2025 within our new and incremental business backlog, as well as program capacity increases and future launches of replacement programs.

On June 1, 2022, our acquisition of Tekfor became effective and we paid approximately \$80 million, net of cash acquired, which was funded entirely with cash on hand. Also in 2022, we made payments for the acquisition of a supplier in Mexico and began to pay the deferred consideration of \$2.5 million per year for 2022 through 2025 associated with our acquisition of Emporium that was completed in 2021. See Note 16 - Acquisitions and Dispositions for further detail.

In both 2023 and 2022, we received \$17.0 million of cash associated with machinery and equipment that was damaged or destroyed as a result of the Malvern Fire. This cash received has been classified as investing cash inflows in both periods based on the nature of the associated loss incurred.

FINANCING ACTIVITIES Net cash used in financing activities was \$205.5 million in 2023, compared to net cash used in financing activities of \$217.2 million in 2022. Total debt outstanding, net of debt issuance costs, was \$2,768.9 million at year-end 2023 and \$2,921.0 million at year-end 2022. The change in total debt outstanding, net of issuance costs, at year-end 2023, as compared to year-end 2022, was primarily due to the factors noted below.

Senior Secured Credit Facilities Holdings and American Axle & Manufacturing, Inc. (AAM, Inc.) are parties to an amended and restated credit agreement including a term loan A facility (the Term Loan A Facility), term loan B facility (the Term Loan B Facility) and a multi-currency revolving credit facility (the Revolving Credit Facility), which was entered into on March 11, 2022 and was amended on December 13, 2022 and June 28, 2023 (the Amended and Restated Credit Agreement). In connection with the Amended and Restated Credit Agreement, Holdings, AAM, Inc. and certain of their restricted subsidiaries are parties to a collateral agreement and guarantee agreement with the financial institutions party thereto. The Amended and Restated Credit Agreement includes customary covenants, including a total net leverage ratio covenant, a cash interest expense coverage ratio covenant, and certain covenants restricting the ability of Holdings, AAM, Inc. and certain subsidiaries of Holdings to create, incur, assume or permit to exist certain additional indebtedness and liens, to make investments and to make or agree to pay or make certain restricted payments, voluntary payments and distributions.

Our Senior Secured Credit Facilities, which are comprised of our Revolving Credit Facility, our Term Loan A Facility, and our Term Loan B Facility, provide back-up liquidity for our foreign credit facilities. We intend to use the availability of long-term financing under the Senior Secured Credit Facilities to refinance any current maturities related to such debt agreements that are not otherwise refinanced on a long-term basis in their local markets, except where otherwise reclassified to Current portion of long-term debt on our Consolidated Balance Sheet.

In June 2023, Holdings and AAM, Inc. entered into the First Amendment to the Amended and Restated Credit Agreement (the First Amendment). We paid debt issuance costs of \$3.2 million in the year ended December 31, 2023 related to the First Amendment.

Also in 2023, we made voluntary prepayments totaling \$26.0 million on our Term Loan A Facility and \$20.2 million on our Term Loan B Facility. As a result, we expensed approximately \$1.1 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of these borrowings.

In March 2022, Holdings and AAM, Inc. entered into the Amended and Restated Credit Agreement. See Note 4 - Long-Term Debt for further detail on the Amended and Restated Credit Agreement. As a result, we expensed \$0.2 million of debt refinancing costs, paid accrued interest of \$1.0 million, and paid debt issuance costs of \$4.5 million in 2022 related to the Amended and Restated Credit Agreement.

In December 2022, Holdings and AAM, Inc. entered into the Refinancing Facility Agreement, under the Amended and Restated Credit Agreement and established a new Term Loan B Facility of \$675.0 million. The proceeds from the Refinancing Facility Agreement, together with \$50.0 million cash on hand and the proceeds of a \$25.0 million borrowing under the Revolving Credit Facility, were used to (a) prepay the entire principal amount of the then outstanding term loan B facility, (b) pay all accrued and unpaid interest due under the then outstanding term loan B facility and (c) pay fees, costs and expenses payable in connection with the refinancing of the Term Loan B Facility. We expensed \$0.4 million of debt refinancing costs, paid accrued interest of \$2.4 million, and paid debt issuance costs of \$26.9 million related to the Refinancing Facility Agreement.

In 2022, prior to entering into the Refinancing Facility Agreement, we made voluntary prepayments totaling \$100.0 million on our then outstanding term loan B facility. As a result, we expensed approximately \$0.6 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of this borrowing.

At December 31, 2023, \$892.3 million was available under the Revolving Credit Facility. This availability reflects a reduction of \$32.7 million for standby letters of credit issued against the facility. The proceeds of the Revolving Credit Facility are used for general corporate purposes.

Redemption of 6.25% Notes due 2026 In the fourth quarter of 2023, we voluntarily redeemed a portion of our 6.25% Notes due 2026. This resulted in a principal payment of \$50.0 million and \$0.9 million in accrued interest. We also expensed approximately \$0.2 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of the borrowing. In the fourth quarter of 2023, we also completed an open market repurchase of our 6.25% Notes due 2026 of \$2.4 million.

In the first quarter of 2022, we used the proceeds from the upsized Term Loan A Facility to voluntarily redeem a portion of our 6.25% Notes due 2026. This resulted in a principal payment of \$220.0 million and \$0.2 million in accrued interest. We also expensed approximately \$1.8 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of the borrowing, and approximately \$3.4 million for the payment of an early redemption premium.

Repayment of Tekfor Group Indebtedness Upon the acquisition of Tekfor, we assumed \$23.4 million of existing Tekfor indebtedness, of which we repaid \$10.7 million in 2022.

Foreign Credit Facilities We utilize local currency credit facilities to finance the operations of certain foreign subsidiaries. At December 31, 2023, \$51.8 million was outstanding under our foreign credit facilities and an additional \$84.7 million was available, as compared to December 31, 2022, when \$72.7 million was outstanding under our foreign credit facilities and an additional \$57.8 million was available.

Treasury stock Treasury stock increased by \$14.7 million in 2023 to \$232.9 million, as compared to \$218.2 million at year-end 2022, due to the withholding and repurchase of shares of AAM stock to satisfy employee tax withholding obligations due upon the vesting of stock-based compensation.

Credit ratings To access public debt capital markets, the Company relies on credit rating agencies to assign short-term and long-term credit ratings to our securities as an indicator of credit quality for fixed income investors. A credit rating agency may change or withdraw its ratings based on its assessment of our current and future ability to meet interest and principal repayment obligations. Credit ratings may affect our cost of borrowing and/or our access to debt capital markets. The credit ratings and outlook currently assigned to our securities by the rating agencies are as follows:

	Corporate Family Rating	Senior Unsecured Notes Rating	Senior Secured Notes Rating	Outlook
Standard & Poor's	BB-	B+	BB+	Stable
Moody's Investors Services..	B1	B2	Ba1	Stable

Dividend program We have not declared or paid any cash dividends on our common stock in 2023 or 2022.

Contractual obligations Our contractual obligations consist primarily of: 1) current and long-term debt; 2) operating and finance lease obligations; 3) obligated purchase commitments for capital expenditures and related project expense; 4) pension and other postretirement benefit obligations, net of GM cost sharing; and 5) interest obligations. Information regarding expected payments by period can be found in Item 8, "Financial Statements and Supplementary Data" in this Form 10-K at Note 4 - Long-Term Debt for our current and long-term debt obligations, Note 14 - Leasing for our operating and finance lease obligations, Note 11 - Commitments and Contingencies for purchase commitments related to capital expenditures and project expense, and Note 7 - Employee Benefit Plans for pension and other postretirement benefit obligations.

The expected future interest obligations associated with our current and long-term debt and finance lease obligations are approximately as follows: \$197 million in 2024, \$192 million in 2025, \$182 million in 2026, \$129 million in 2027, \$102 million in 2028, and \$89 million in 2029 and thereafter.

Subsidiary Guarantees of Registered Debt Securities Our 6.875% Notes, 6.50% Notes, 6.25% Notes and 5.00% Notes (collectively, the Notes) are senior unsecured obligations of AAM, Inc. (Issuer); all of which are fully and unconditionally guaranteed, on a joint and several basis, by Holdings and substantially all domestic subsidiaries of AAM, Inc. and MPG Inc. (Subsidiary Guarantors). Holdings has no significant assets other than its 100% ownership in AAM, Inc. and MPG Inc., and no direct subsidiaries other than AAM, Inc. and MPG Inc.

Each guarantee by Holdings and/or any of the Subsidiary Guarantors is:

- a senior obligation of the relevant Subsidiary Guarantors;
- the unsecured and unsubordinated obligation of the relevant Subsidiary Guarantors; and
- of equal rank with all other existing and future unsubordinated and unsecured indebtedness of the relevant Subsidiary Guarantors.

Each guarantee by a Subsidiary Guarantor provides by its terms that it will be automatically, fully and unconditionally released and discharged upon:

- any sale, exchange or transfer (by merger or otherwise) of the capital stock of such Subsidiary Guarantor, or the sale or disposition of all the assets of such Subsidiary Guarantor, which sale, exchange, transfer or disposition is made in compliance with the applicable provisions of the indentures;
- the exercise by the issuer of its legal defeasance option or covenant defeasance option or the discharge of the issuer's obligations under the indentures in accordance with the terms of the indentures; or
- the election of the issuer to affect such a release following the date that such guaranteed Notes have an investment grade rating from both Standard & Poor's Ratings Group, Inc. and Moody's Investors Service, Inc.

The following represents summarized financial information of Holdings, AAM Inc. and the Subsidiary Guarantors (collectively, the Combined Entities). The information has been prepared on a combined basis and excludes any investments of AAM Holdings, AAM Inc., or the Subsidiary Guarantors in non-guarantor subsidiaries. Intercompany transactions and amounts between Combined Entities have been eliminated.

Statement of Operations Information

(in millions)

	<u>Year Ended December 31, 2023</u>	<u>Year Ended December 31, 2022</u>
Net sales	\$ 4,376.7	\$ 4,429.5
Gross profit	339.2	445.2
Income (loss) from operations	(91.4)	25.1
Net loss	(182.4)	(59.7)

Balance Sheet Information

(in millions)

	<u>December 31, 2023</u>	<u>December 31, 2022</u>
Current assets	\$ 1,009.2	\$ 1,061.9
Noncurrent assets	2,723.4	2,317.9
Current liabilities	1,512.2	1,360.4
Noncurrent liabilities	3,252.2	3,345.3
Redeemable preferred stock	—	—
Noncontrolling interest	—	—

At December 31, 2023 and December 31, 2022, amounts owed by the Combined Entities to non-guarantor entities totaled approximately \$1,090 million and \$945 million, respectively, and amounts owed to the Combined Entities from non-guarantor entities totaled approximately \$580 million and \$620 million, respectively.

CYCLICALITY AND SEASONALITY

Our operations are cyclical because they are directly related to worldwide automotive production, which is itself cyclical and dependent on general economic conditions and other factors. Typically, our business is moderately seasonal as our major OEM customers historically have an extended shutdown of operations (normally 1-2 weeks) in conjunction with their model year changeover and an approximate one-week shutdown in the month of December. Our major OEM customers also occasionally have longer shutdowns of operations (up to six weeks) for program changeovers. Accordingly, our quarterly results may reflect these trends.

LEGAL PROCEEDINGS

See Note 9 - Income Taxes and Note 11 - Commitments and Contingencies in Item 8, "Financial Statements and Supplementary Data" for discussion of legal proceedings and the effect on AAM.

EFFECT OF NEW ACCOUNTING STANDARDS

See Note 1 - Organization and Summary of Significant Accounting Policies in Item 8, "Financial Statements and Supplementary Data" for discussion of new accounting standards and the effect on AAM.

CRITICAL ACCOUNTING ESTIMATES

In order to prepare consolidated financial statements in conformity with GAAP, we are required to make estimates and assumptions that affect the reported amounts and disclosures in our consolidated financial statements. These estimates are subject to an inherent degree of uncertainty and actual results could differ from our estimates.

Other items in our consolidated financial statements require estimation. In our judgment, they are not as critical as those disclosed below. We have discussed and reviewed our critical accounting estimates disclosure with the Audit Committee of our Board of Directors.

VALUATION OF DEFERRED TAX ASSETS AND OTHER TAX LIABILITIES Because we operate in many different geographic locations, including several foreign, state and local tax jurisdictions, the evaluation of our ability to use all recognized deferred tax assets is complex. In accordance with ASC 740 - *Income Taxes*, we review the likelihood that we will realize the benefit of deferred tax assets and estimate whether recoverability of our deferred tax assets is "more likely than not," based on forecasts of taxable income in the related tax jurisdictions. In determining the requirement for a valuation allowance, the historical results, projected future operating results based upon approved business plans, eligible carry forward periods, and tax planning opportunities are considered, along with other relevant positive and negative evidence. If, based upon available evidence, it is more likely than not the deferred tax assets will not be realized, a valuation allowance is recorded.

As of December 31, 2023, we have a valuation allowance of approximately \$267.1 million related to net deferred tax assets in several foreign jurisdictions and U.S. federal, state and local jurisdictions. As of December 31, 2022 and 2021, our valuation allowance was \$217.5 million and \$201.7 million, respectively.

If, in the future, we generate taxable income on a sustained basis in foreign and U.S. federal, state and local jurisdictions for which we have recorded valuation allowances, our current estimate of the recoverability of our deferred tax assets could change and result in the future reversal of some or all of the valuation allowance. While we believe we have made appropriate valuations of our deferred tax assets, unforeseen changes in tax legislation, regulatory activities, audit results, operating results, financing strategies, organization structure and other related matters may result in material changes in our deferred tax asset valuation allowances or our tax liabilities.

Further, due to the uncertainty associated with the extent and ultimate impact of the significant supply chain constraints affecting the automotive industry, as well as the potential impact of geopolitical conflicts or events and macroeconomic factors, including sustained or increased inflation, we may experience lower than projected earnings in certain jurisdictions in future periods and, as a result, it is reasonably possible that changes in valuation allowances could be recognized in future periods and such changes could be material to our financial statements.

Unrecognized Income Tax Benefits

We record uncertain tax positions on the basis of a two-step process whereby: (1) we determine whether it is "more likely than not" that the tax positions will be sustained based on the technical merits of the position; and (2) for those positions that meet the "more likely than not" recognition threshold, we recognize the largest amount of tax benefit that is greater than 50% likely to be realized upon ultimate settlement with the related tax authority. We record interest and penalties on uncertain tax positions in income tax expense (benefit). As of December 31, 2023 and 2022, we had a liability for unrecognized income tax benefits and related interest and penalties of \$38.1 million and \$40.5 million, respectively. We continue to monitor the progress and conclusions of all ongoing audits and other communications with tax authorities and adjust our estimated liability as necessary.

Other Income Tax Matters - Pending Tax Litigation

We operate in multiple jurisdictions throughout the world and the income tax returns of several subsidiaries in various tax jurisdictions are currently under examination. During their examination of our 2015 U.S. federal income tax return, the Internal Revenue Service (IRS) asserted that income earned by a Luxembourg subsidiary from its Mexican branch operations should be categorized as foreign base company sales income (FBCSI) under Section 954(d) of the Internal Revenue Code and recognized currently as taxable income on our 2015 U.S. federal income tax return. As a result of this assertion, the IRS issued a Notice of Proposed Adjustment (NOPA). AAM disagreed with the NOPA, believes that the proposed adjustment is without merit and contested the matter through the IRS's administrative appeals process. No resolution was reached in the appeals process and, in September 2022, the IRS issued a Notice of Deficiency. The IRS subsequently issued a Notice of Tax Due in December 2022 and AAM paid the assessed tax and interest of \$10.1 million in January 2023. We filed a claim for refund for the amount of tax and interest paid related to this matter for the 2015 tax year and, in December 2023, we filed suit in the U.S. Court of Federal Claims.

We believe, after consultation with tax and legal counsel, that it is more likely than not that our structure did not give rise to FBCSI, and it's likely that we will be successful in ultimately defending our position. As such, we have not recorded any impact of the IRS's proposed adjustment in our consolidated financial statements as of, and for the year ended, December 31, 2023, with the exception of the cash payment and associated income tax receivable of \$10.1 million paid by AAM to the IRS in 2023. As of December 31, 2023, in the event AAM is not successful in defending its position, the potential additional income tax expense, including estimated interest charges, related to tax years 2015 through 2023, is estimated to be in the range of approximately \$300 million to \$350 million.

PENSION AND OTHER POSTRETIREMENT BENEFITS In calculating our assets, liabilities and expenses related to pension and OPEB, key assumptions include the discount rate, expected long-term rates of return on plan assets, mortality projections and rates of increase in health care costs.

The discount rates used in the valuation of our U.S. pension and OPEB obligations were based on an actuarial review of a hypothetical portfolio of long-term, high quality corporate bonds matched against the expected payment stream for each of our plans. In 2023, the weighted-average discount rates determined on that basis were 5.15% for the valuation of both our pension benefit obligations and the valuation of our OPEB obligations. The discount rates used in the valuations of our non-U.S. pension obligations were based on hypothetical yield curves developed from corporate bond yield information within each regional market. In 2023, the weighted-average discount rate determined on that basis was 4.50% for our non-U.S. plans. The expected weighted-average long-term rates of return on our plan assets were 6.75% for our U.S. plans, and 4.90% for our non-U.S. plans in 2023.

We developed these rates of return assumptions based on future capital market expectations for the asset classes represented within our portfolio and a review of long-term historical returns. The asset allocation for our plans was developed in consideration of the demographics of the plan participants and expected payment stream of the liability. Our investment policy allocates approximately 25% - 35% of the U.S. plan assets to equity securities, with the remainder invested in fixed income securities, hedge fund investments and cash. The rates of increase in health care costs are based on current market conditions, inflationary expectations and historical information.

All of our assumptions were developed in consultation with our actuarial service providers. While we believe that we have selected reasonable assumptions for the valuation of our pension and OPEB obligations at year-end 2023, actual trends could result in materially different valuations.

The effect on our pension plans of a 0.5% decrease in both the discount rate and expected return on assets is shown below as of December 31, 2023, our valuation date.

	<u>Discount Rate</u>	<u>Expected Return on Assets</u>
	(in millions)	
Decline in funded status	\$ (23.1)	N/A
Increase in 2023 expense	\$ 0.3	\$ 2.4

No changes in benefit levels or in the amortization of gains or losses have been assumed.

For 2024, we assumed a weighted-average annual increase in the per-capita cost of covered health care benefits of 7.0% for OPEB. The rate is assumed to decrease gradually to 5.0% by 2034 and remain at that level thereafter. A 0.5% decrease in the discount rate for our OPEB would have increased total expense in 2023 and the postretirement obligation, net of GM cost sharing, at December 31, 2023 by \$0.4 million and \$8.4 million, respectively. A 1.0% increase in the assumed health care trend rate would have increased total service and interest cost in 2023 and the postretirement obligation, net of GM cost sharing, at December 31, 2023 by \$0.8 million and \$12.2 million, respectively.

AAM and GM share in the cost of OPEB for eligible retirees proportionally based on the length of service an employee had with AAM and GM. We estimate the future cost sharing payments and present it as an asset on our Consolidated Balance Sheet. As of December 31, 2023, we estimated \$120.0 million in future GM cost sharing. If, in the future, GM were unable to fulfill this financial obligation, our OPEB obligations could be different than our current estimates.

GOODWILL We record goodwill when the purchase price of acquired businesses exceeds the value of their identifiable net tangible and intangible assets acquired. We periodically evaluate goodwill for impairment in accordance with the accounting guidance for goodwill and other indefinite-lived intangibles that are not amortized. We review our goodwill for impairment annually during the fourth quarter. In addition, we review goodwill for impairment whenever adverse events or changes in circumstances indicate a possible impairment.

This review is performed at the reporting unit level, and involves a comparison of the fair value of the reporting unit with its carrying amount, including goodwill. If the fair value of the reporting unit exceeds its carrying amount, goodwill of the reporting unit is not considered impaired. If the carrying amount of the reporting unit exceeds its fair value, an impairment loss is recognized in an amount equal to the excess carrying value over fair value.

In performing goodwill impairment testing, we utilize a third-party valuation specialist to assist management in determining the fair value of our reporting units. Fair value of each reporting unit is estimated based on a combination of discounted cash flows and the use of pricing multiples derived from an analysis of comparable public companies multiplied against historical and/or anticipated financial metrics of each reporting unit. These calculations contain uncertainties as they require management to make assumptions including, but not limited to, market comparables, future cash flows of the reporting units, and appropriate discount and long-term growth rates. A decline in the actual cash flows of our reporting units in future periods, as compared to the projected cash flows used in our valuations, could result in the carrying value of the reporting units exceeding their respective fair values. Further, a change in market comparables, discount rate or long-term growth rate, as a result of a change in economic conditions or otherwise, could result in the carrying values of the reporting units exceeding their respective fair values.

Our business is organized into two segments: Driveline and Metal Forming. Under the goodwill guidance, we determined that each of our segments represents a reporting unit. The determination of our reporting units and impairment indicators also require us to make significant judgments. At December 31, 2023 all goodwill was associated with our Driveline reporting unit. As a result of our goodwill impairment test completed in the fourth quarter of 2023, we determined that the fair value of our Driveline reporting unit exceeded its carrying value by approximately 13%. See Note 3 - Goodwill and Other Intangible Assets for further detail regarding our goodwill.

IMPAIRMENT OF LONG-LIVED ASSETS Long-lived assets, excluding goodwill, to be held and used are reviewed for impairment whenever adverse events or changes in circumstances indicate a possible impairment. Recoverability of each “held for use” asset group affected by impairment indicators is determined by comparing the forecasted undiscounted cash flows of the operations to which the assets relate to their carrying amount. If the carrying amount of an asset group exceeds the undiscounted cash flows and is therefore not recoverable, the assets in this group are written down to their estimated fair value. We estimate fair value based on market prices, when available, or on a discounted cash flow analysis. Long-lived assets held for sale are recorded at the lower of their carrying amount or fair value less cost to sell. Significant judgments and estimates used by management when evaluating long-lived assets for impairment include:

- An assessment as to whether an adverse event or circumstance has triggered the need for an impairment review;
- Determination of asset groups, the primary asset within each group, and the primary asset's average estimated useful life;
- Undiscounted future cash flows generated by the assets; and
- Determination of fair value when an impairment is deemed to exist, which may require assumptions related to future general economic conditions, future expected production volumes, product pricing and cost estimates, working capital and capital investment requirements, discount rates and estimated liquidation values.

PRODUCT WARRANTY We record a liability and related charge to cost of goods sold for estimated warranty obligations at the dates our products are sold or when specific warranty issues are identified. Product warranties not expected to be paid within one year are recorded as a noncurrent liability on our Consolidated Balance Sheet. Our estimated warranty obligations for products sold are based on significant management estimates, with input from our warranty, sales, engineering, quality and legal departments. For products and customers with actual warranty payment experience, we estimate warranty costs principally based on past claims history. For certain products and customers, actual warranty payment experience does not exist or is not mature. In these cases, we estimate our costs based on the contractual arrangements with our customers, existing customers' warranty program terms and internal and external warranty data, which includes a determination of our responsibility for potential warranty issues or claims and estimates of repair costs. We actively study trends of our warranty claims and take action to improve product quality and minimize warranty claims. We continuously evaluate these estimates and our customers' administration of their warranty programs. We closely monitor actual warranty claim data and adjust the liability, as necessary, on a quarterly basis.

In addition to our ordinary warranty provisions with our customers, we may be responsible for certain costs associated with product recalls and field actions, which are recorded at the time our obligation is probable and can be reasonably estimated. In 2023, we recorded \$7 million of expense related to a field action with one of our largest customers for a die cast component included in transmission assemblies. We reached agreement on this field action with our customer in the fourth quarter of 2023 and we do not expect to record any additional liabilities associated with this item.

Our warranty accrual was \$66.3 million as of December 31, 2023 and \$54.1 million as of December 31, 2022. During 2023 and 2022, we made adjustments to our warranty accrual to reflect revised estimates regarding our projected future warranty obligations. Actual experience could differ from the amounts estimated requiring adjustments to these liabilities in future periods. It is possible that changes in our assumptions or future warranty issues could materially affect our financial position and results of operations.

Forward-Looking Statements

In this MD&A and elsewhere in this Form 10-K (Annual Report), we make statements concerning our expectations, beliefs, plans, objectives, goals, strategies, and future events or performance. Such statements are “forward-looking” statements within the meaning of the Private Securities Litigation Reform Act of 1995 and relate to trends and events that may affect our future financial position and operating results. The terms such as “will,” “may,” “could,” “would,” “plan,” “believe,” “expect,” “anticipate,” “intend,” “project,” “target,” and similar words or expressions, as well as statements in future tense, are intended to identify forward-looking statements.

Forward-looking statements should not be read as a guarantee of future performance or results and will not necessarily be accurate indications of the times at, or by, which such performance or results will be achieved. Forward-looking statements are based on information available at the time those statements are made and/or management’s good faith belief as of that time with respect to future events and are subject to risks and may differ materially from those expressed in or suggested by the forward-looking statements. Important factors that could cause such differences include, but are not limited to:

- global economic conditions, including the impact of inflation, recession or recessionary concerns, or slower growth in the markets in which we operate;
- reduced purchases of our products by General Motors Company (GM), Stellantis N.V. (Stellantis), Ford Motor Company (Ford) or other customers;
- our ability to respond to changes in technology, increased competition or pricing pressures;
- our ability to develop and produce new products that reflect market demand;
- lower-than-anticipated market acceptance of new or existing products;
- our ability to attract new customers and programs for new products;
- reduced demand for our customers’ products (particularly light trucks and sport utility vehicles (SUVs) produced by GM, Stellantis and Ford);
- risks inherent in our global operations (including tariffs and the potential consequences thereof to us, our suppliers, and our customers and their suppliers, adverse changes in trade agreements, such as the United States-Mexico-Canada Agreement (USMCA), compliance with customs and trade regulations, immigration policies, political stability or geopolitical conflicts, taxes and other law changes, potential disruptions of production and supply, and currency rate fluctuations);
- supply shortages and the availability of natural gas or other fuel and utility sources in certain regions, labor shortages, including increased labor costs, or price increases in raw material and/or freight, utilities or other operating supplies for us or our customers as a result of pandemic or epidemic illness such as COVID-19, geopolitical conflicts, natural disasters or otherwise;
- a significant disruption in operations at one or more of our key manufacturing facilities;
- risks inherent in transitioning our business from internal combustion engine vehicle products to electric vehicle products;
- negative or unexpected tax consequences, including those resulting from tax litigation;
- risks related to a failure of our information technology systems and networks, including cloud-based applications, and risks associated with current and emerging technology threats and damage from computer viruses, unauthorized access, cyber attacks and other similar disruptions;
- our suppliers’, our customers’ and their suppliers’ ability to maintain satisfactory labor relations and avoid or minimize work stoppages;
- cost or availability of financing for working capital, capital expenditures, research and development (R&D) or other general corporate purposes including acquisitions, as well as our ability to comply with financial covenants;
- our customers’ and suppliers’ availability of financing for working capital, capital expenditures, R&D or other general corporate purposes;
- an impairment of our goodwill, other intangible assets, or long-lived assets if our business or market conditions indicate that the carrying values of those assets exceed their fair values;
- liabilities arising from warranty claims, product recall or field actions, product liability and legal proceedings to which we are or may become a party, or the impact of product recall or field actions on our customers;
- our ability or our customers’ and suppliers’ ability to successfully launch new product programs on a timely basis;
- risks of environmental issues, including impacts of climate-related events, that could result in unforeseen issues or costs at our facilities, or risks of noncompliance with environmental laws and regulations, including reputational damage;
- our ability to maintain satisfactory labor relations and avoid work stoppages;
- our ability to consummate and successfully integrate acquisitions and joint ventures;
- our ability to achieve the level of cost reductions required to sustain global cost competitiveness or our ability to recover certain cost increases from our customers;
- our ability to realize the expected revenues from our new and incremental business backlog;
- price volatility in, or reduced availability of, fuel;
- our ability to protect our intellectual property and successfully defend against assertions made against us;
- adverse changes in laws, government regulations or market conditions affecting our products or our customers’ products;
- our ability or our customers’ and suppliers’ ability to comply with regulatory requirements and the potential costs of such compliance;
- changes in liabilities arising from pension and other postretirement benefit obligations;
- our ability to attract and retain qualified personnel in key positions and functions; and
- other unanticipated events and conditions that may hinder our ability to compete.

It is not possible to foresee or identify all such factors and we make no commitment to update any forward-looking statement or to disclose any facts, events or circumstances after the date hereof that may affect the accuracy of any forward-looking statement.

Item 7A. Quantitative and Qualitative Disclosures about Market Risk

MARKET RISK

Our business and financial results are affected by fluctuations in global financial markets, including currency exchange rates and interest rates. Our hedging policy has been developed to manage these risks to an acceptable level based on management's judgment of the appropriate trade-off between risk, opportunity and cost. We do not hold financial instruments for trading or speculative purposes.

CURRENCY EXCHANGE RISK From time to time, we use foreign currency forward contracts to reduce the effects of fluctuations in exchange rates relating to certain foreign currencies. At December 31, 2023 and December 31, 2022, we had currency forward contracts outstanding with a total notional amount of \$206.9 million and \$179.9 million, respectively. The potential decrease in fair value of foreign exchange contracts, assuming a 10% adverse change in the foreign currency exchange rates, would be approximately \$18.8 million at December 31, 2023 and was approximately \$16.4 million at December 31, 2022.

In 2022, we discontinued an existing fixed-to-fixed cross-currency swap, which was in an asset position of \$9.7 million on the date that it was discontinued. Also in 2022, we entered into a new fixed-to-fixed cross-currency swap to reduce the variability of functional currency equivalent cash flows associated with changes in exchange rates on certain Euro-based intercompany loans. The notional amount of the fixed-to-fixed cross currency swap is €200.0 million, which was equivalent to \$220.7 million and \$213.9 million at December 31, 2023 and December 31, 2022, respectively. The potential decrease in fair value of the fixed-to-fixed cross-currency swap, assuming a 10% adverse change in foreign currency exchange rates, would be approximately \$22.1 million at December 31, 2023 and was approximately \$21.4 million at December 31, 2022.

Future business operations and opportunities, including the expansion of our business outside North America, may further increase the risk that cash flows resulting from these global operations may be adversely affected by changes in currency exchange rates. If and when appropriate, we intend to manage these risks by creating natural hedges in the structure of our global operations, utilizing local currency funding of these expansions and various types of foreign exchange contracts.

INTEREST RATE RISK We are exposed to variable interest rates on certain credit facilities. From time to time, we have used interest rate hedging to reduce the effects of fluctuations in market interest rates. In 2022, we discontinued an existing variable-to-fixed interest rate swap, which was in an asset position of \$6.1 million on the date that it was discontinued. In 2022, and in the first quarter of 2023, we entered into new variable-to-fixed interest rate swaps to reduce the variability of cash flows associated with interest payments on our variable rate debt. In the third quarter of 2023, we discontinued these variable-to-fixed interest rate swaps, which were in an asset position of \$27.2 million on the date that they were discontinued.

Also in the third quarter of 2023, we entered into new variable-to-fixed interest rate swaps to reduce the variability of cash flows associated with interest payments on our variable rate debt. As of December 31, 2023, we have \$700.0 million notional amount hedged in relation to our variable-to-fixed interest rate swap into the third quarter of 2027, \$200.0 million of which continues into the fourth quarter of 2029.

The pre-tax earnings and cash flow impact of a one-percentage-point increase in interest rates (approximately 14% of our weighted-average interest rate at December 31, 2023) on our long-term debt outstanding at December 31, 2023 would be approximately \$4.4 million and was approximately \$7.5 million at December 31, 2022, on an annualized basis.

Item 8. Financial Statements and Supplementary Data

Consolidated Statements of Operations

Year Ended December 31,

	<u>2023</u>	<u>2022</u>	<u>2021</u>
	<i>(in millions, except per share data)</i>		
Net sales	\$ 6,079.5	\$ 5,802.4	\$ 5,156.6
Cost of goods sold	<u>5,455.2</u>	<u>5,097.5</u>	<u>4,433.9</u>
Gross profit	624.3	704.9	722.7
Selling, general and administrative expenses	366.9	345.1	344.2
Amortization of intangible assets	85.6	85.7	85.8
Restructuring and acquisition-related costs	25.2	30.2	49.4
Loss on sale of business (Note 16)	<u>—</u>	<u>—</u>	<u>2.7</u>
Operating income	146.6	243.9	240.6
Interest expense	(201.7)	(174.5)	(195.2)
Interest income	26.2	17.0	10.9
Other income (expense)			
Debt refinancing and redemption costs	(1.3)	(6.4)	(34.0)
Gain on bargain purchase of business	—	13.6	—
Pension curtailment and settlement charges	(1.3)	—	(42.3)
Unrealized gain (loss) on equity securities	(1.1)	(25.5)	24.4
Other income (expense), net	<u>8.1</u>	<u>(1.8)</u>	<u>(3.2)</u>
Income (loss) before income taxes	(24.5)	66.3	1.2
Income tax expense (benefit)	<u>9.1</u>	<u>2.0</u>	<u>(4.7)</u>
Net income (loss)	<u>\$ (33.6)</u>	<u>\$ 64.3</u>	<u>\$ 5.9</u>
Basic earnings (loss) per share	\$ (0.29)	\$ 0.54	\$ 0.05
Diluted earnings (loss) per share	\$ (0.29)	\$ 0.53	\$ 0.05

See accompanying notes to consolidated financial statements

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

Consolidated Statements of Comprehensive Income (Loss)

Year Ended December 31,

	<u>2023</u>	<u>2022</u>	<u>2021</u>
	<i>(in millions)</i>		
Net income (loss)	\$ (33.6)	\$ 64.3	\$ 5.9
Other comprehensive income (loss)			
Defined benefit plans, net of tax of \$(0.4) million, \$(31.8) million and \$(18.2) million in 2023, 2022 and 2021, respectively	1.6	95.0	69.1
Foreign currency translation adjustments	7.4	(38.4)	(10.2)
Changes in cash flow hedges, net of tax of \$1.9 million, \$(6.5) million and \$(3.9) million in 2023, 2022 and 2021, respectively	3.5	32.8	8.5
Other comprehensive income	<u>12.5</u>	<u>89.4</u>	<u>67.4</u>
Comprehensive income (loss)	<u>\$ (21.1)</u>	<u>\$ 153.7</u>	<u>\$ 73.3</u>

See accompanying notes to consolidated financial statements

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

Consolidated Balance Sheets

December 31,

	<u>2023</u>	<u>2022</u>
	<i>(in millions, except per share data)</i>	
Assets		
Current assets		
Cash and cash equivalents	\$ 519.9	\$ 511.5
Accounts receivable, net	818.5	820.2
Inventories, net	482.9	463.9
Prepaid expenses and other	185.3	197.8
Total current assets	<u>2,006.6</u>	<u>1,993.4</u>
Property, plant and equipment, net	1,760.9	1,903.0
Deferred income taxes	169.4	119.0
Goodwill	182.1	181.6
Other intangible assets, net	532.8	616.2
GM postretirement cost sharing asset	111.9	127.6
Operating lease right-of-use assets	115.6	107.2
Other assets and deferred charges	477.0	421.4
Total assets	<u>\$ 5,356.3</u>	<u>\$ 5,469.4</u>
Liabilities and Stockholders' Equity		
Current liabilities		
Current portion of long-term debt	\$ 17.0	\$ 75.9
Accounts payable	773.9	734.0
Accrued compensation and benefits	200.1	186.6
Deferred revenue	16.6	28.1
Current portion of operating lease liabilities	21.9	21.1
Accrued expenses and other	172.1	153.6
Total current liabilities	<u>1,201.6</u>	<u>1,199.3</u>
Long-term debt, net	2,751.9	2,845.1
Deferred revenue	70.4	73.4
Deferred income taxes	16.5	10.7
Long-term portion of operating lease liabilities	95.5	87.2
Postretirement benefits and other long-term liabilities	615.5	626.4
Total liabilities	<u>4,751.4</u>	<u>4,842.1</u>
Stockholders' equity		
Preferred stock, par value \$0.01 per share; 10.0 million shares authorized; no shares outstanding in 2023 or 2022	—	—
Series common stock, par value \$0.01 per share; 40.0 million shares authorized; no shares outstanding in 2023 or 2022	—	—
Common stock, par value \$0.01 per share; 150.0 million shares authorized; 127.4 million and 123.3 million shares issued as of December 31, 2023 and December 31, 2022, respectively	1.3	1.3
Paid-in capital	1,382.6	1,369.2
Accumulated deficit	(283.2)	(249.6)
Treasury stock at cost, 10.3 million shares in 2023 and 8.7 million shares in 2022	(232.9)	(218.2)
Accumulated other comprehensive income (loss)		
Defined benefit plans, net of tax	(145.3)	(146.9)
Foreign currency translation adjustments	(142.3)	(149.7)
Unrecognized gain on cash flow hedges, net of tax	24.7	21.2
Total stockholders' equity	<u>604.9</u>	<u>627.3</u>
Total liabilities and stockholders' equity	<u>\$ 5,356.3</u>	<u>\$ 5,469.4</u>

See accompanying notes to consolidated financial statements

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

Consolidated Statements of Cash Flows

Year Ended December 31,

	<u>2023</u>	<u>2022</u>	<u>2021</u>
		<i>(in millions)</i>	
Operating activities			
Net income (loss)	\$ (33.6)	\$ 64.3	\$ 5.9
Adjustments to reconcile net income (loss) to net cash provided by operating activities			
Depreciation and amortization	487.2	492.1	544.3
Deferred income taxes	(45.7)	(29.5)	(27.2)
Stock-based compensation	13.4	17.7	18.2
Pensions and other postretirement benefits, net of contributions	(19.1)	(11.8)	19.9
Loss on sale of business, net	—	—	2.7
Loss (gain) on disposal of property, plant and equipment, net	5.8	(0.5)	5.8
Unrealized loss (gain) on equity securities	1.1	25.5	(24.4)
Gain on bargain purchase of business	—	(13.6)	—
Debt refinancing and redemption costs	1.3	6.4	34.0
Changes in operating assets and liabilities, net of amounts acquired or disposed			
Accounts receivable	7.2	(38.7)	23.1
Inventories	(13.2)	(16.2)	(87.7)
Accounts payable and accrued expenses	58.6	61.1	62.7
Deferred revenue	(16.1)	(16.8)	13.3
Other assets and liabilities	(50.8)	(91.1)	(52.2)
Net cash provided by operating activities	<u>396.1</u>	<u>448.9</u>	<u>538.4</u>
Investing activities			
Purchases of property, plant and equipment	(194.6)	(171.4)	(181.2)
Proceeds from sale of property, plant and equipment	0.9	4.7	2.0
Purchase buyouts of leases	(2.1)	(4.0)	—
Proceeds from sale of business, net	—	—	1.0
Acquisition of business, net of cash acquired	(2.5)	(88.9)	(4.9)
Investment in affiliates	(3.2)	(0.4)	(1.1)
Proceeds from insurance claim (Note 15)	17.0	17.0	23.1
Net cash used in investing activities	<u>(184.5)</u>	<u>(243.0)</u>	<u>(161.1)</u>
Financing activities			
Proceeds from Revolving Credit Facility	—	25.0	—
Payments of Revolving Credit Facility	(25.0)	—	—
Proceeds from issuance of long-term debt	35.8	247.9	634.7
Payments of long-term debt	(184.8)	(458.3)	(1,017.6)
Debt issuance costs	(3.2)	(31.4)	(9.2)
Purchase of treasury stock	(14.7)	(1.9)	(4.3)
Finance lease obligations and other	(13.6)	1.5	(5.0)
Net cash used in financing activities	<u>(205.5)</u>	<u>(217.2)</u>	<u>(401.4)</u>
Effect of exchange rate changes on cash	2.3	(7.4)	(2.7)
Net increase (decrease) in cash and cash equivalents	8.4	(18.7)	(26.8)
Cash and cash equivalents at beginning of year	511.5	530.2	557.0
Cash and cash equivalents at end of year	<u>\$ 519.9</u>	<u>\$ 511.5</u>	<u>\$ 530.2</u>
Supplemental cash flow information			
Interest paid	\$ 186.4	\$ 172.6	\$ 184.9
Income taxes paid, net	\$ 54.9	\$ 40.4	\$ 26.6
Non-cash investing activities: Deferred consideration for acquisition of business	\$ —	\$ —	\$ 10.0

See accompanying notes to consolidated financial statements

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

Consolidated Statements of Stockholders' Equity

	Common Stock		Paid-in Capital	Retained Earnings	Treasury Stock	Accumulated Other	Noncontrolling Interest in Subsidiaries
	Shares Outstanding	Par Value		(Accumulated Deficit)		Comprehensive Loss	
<i>(in millions)</i>							
Balance at January 1, 2021	113.3	\$ 1.2	\$ 1,333.3	\$ (319.8)	\$ (212.0)	\$ (432.2)	2.7
Net income				5.9			—
Changes in cash flow hedges						8.5	
Foreign currency translation adjustments						(10.2)	—
Defined benefit plans, net						69.1	
Vesting of restricted stock units and performance shares	1.2	0.1					
Stock-based compensation			18.2				
Purchase of treasury stock	(0.5)				(4.3)		
Sale of business (Note 16)							(2.7)
Balance at December 31, 2021	114.0	\$ 1.3	\$ 1,351.5	\$ (313.9)	\$ (216.3)	\$ (364.8)	—
Net income				64.3			—
Changes in cash flow hedges						32.8	
Foreign currency translation adjustments						(38.4)	—
Defined benefit plans, net						95.0	
Vesting of restricted stock units and performance shares	0.8	—					
Stock-based compensation			17.7				
Purchase of treasury stock	(0.2)				(1.9)		
Balance at December 31, 2022	114.6	\$ 1.3	\$ 1,369.2	\$ (249.6)	\$ (218.2)	\$ (275.4)	—
Net loss				(33.6)			—
Changes in cash flow hedges						3.5	
Foreign currency translation adjustments						7.4	—
Defined benefit plans, net						1.6	
Vesting of restricted stock units and performance shares	4.1	—					
Stock-based compensation			13.4				
Purchase of treasury stock	(1.6)				(14.7)		
Balance at December 31, 2023	117.1	\$ 1.3	\$ 1,382.6	\$ (283.2)	\$ (232.9)	\$ (262.9)	—

See accompanying notes to consolidated financial statements

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

ORGANIZATION As a leading global tier 1 automotive and mobility supplier, AAM designs, engineers and manufactures Driveline and Metal Forming technologies to support electric, hybrid and internal combustion vehicles. Headquartered in Detroit with over 80 facilities in 18 countries, AAM is bringing the future faster for a safer and more sustainable tomorrow.

PRINCIPLES OF CONSOLIDATION We include the accounts of American Axle & Manufacturing Holdings, Inc. (Holdings) and its subsidiaries in our consolidated financial statements. We eliminate the effects of all intercompany transactions, balances and profits in our consolidation.

CASH AND CASH EQUIVALENTS Cash and cash equivalents include all cash balances, savings accounts, sweep accounts, and highly liquid investments in money market funds and certificates of deposit with maturities of 90 days or less at the time of purchase.

REVENUE RECOGNITION We are obligated under our contracts with customers to manufacture and supply products for use in our customers' operations. We satisfy these performance obligations at the point in time that the customer obtains control of the products, which is the point in time that the customer is able to direct the use of, and obtain substantially all of the remaining benefits from, the products. This typically occurs upon shipment to the customer in accordance with purchase orders and delivery releases issued by our customers. See Note 13 - Revenue from Contracts with Customers for more detail on our revenue.

ACCOUNTS RECEIVABLE The majority of our accounts receivable are due from original equipment manufacturers (OEMs) in the automotive industry and are considered past due when payment is not received within the terms stated within the contract. Trade accounts receivable for our customers are generally due within approximately 50 days from the date our customers receive our product.

Amounts due from customers are stated net of allowances for credit losses. We determine our allowances by considering our expected credit losses, in addition to factors such as our previous loss history, customers' ability to pay their obligations to us, and the condition of the general economy and industry as a whole. The allowance for credit losses was \$5.3 million and \$9.3 million as of December 31, 2023 and 2022, respectively. We write-off accounts receivable when they become uncollectible.

We have agreements in place with factoring companies to sell customer receivables on a nonrecourse basis from certain of our locations in Europe. The factoring companies collect payment for the sold receivables and AAM has no continuing involvement with such receivables.

We also participate in an early payment program offered by our largest customer, which allows us to sell certain of our North American receivables from this customer to a third party at our discretion. AAM has no continuing involvement with the sold receivables.

CUSTOMER TOOLING AND PRE-PRODUCTION COSTS RELATED TO LONG-TERM SUPPLY

AGREEMENTS Engineering, research and development (R&D), and other pre-production design and development costs for products sold on long-term supply arrangements are expensed as incurred unless we have a contractual guarantee for reimbursement from the customer. Reimbursements received for pre-production costs relating to awarded programs are deferred and recognized into revenue over the life of the associated program. Reimbursements received for pre-production costs relating to future programs that have not been awarded, or amounts received for programs that become discontinued prior to production, are recorded as a reduction of expense.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Costs for tooling used to make products sold on long-term supply arrangements for which we have either title to the assets or the noncancelable right to use the assets during the term of the supply arrangement are capitalized in property, plant and equipment. Reimbursable costs for tooling assets for which our customer has title and we do not have a noncancelable right to use during the term of the supply arrangement, are recorded in accounts receivable in our consolidated balance sheets. The reimbursement for the customer-owned tooling is recorded as a reduction of accounts receivable upon collection. Capitalized items and customer receipts in excess of tooling costs specifically related to a supply arrangement are amortized over the shorter of the term of the arrangement or over the estimated useful lives of the related assets.

INVENTORIES We state our inventories at the lower of cost or net realizable value. The cost of our inventories is determined using the first-in-first-out method. When we determine that our gross inventories exceed usage requirements, or if inventories become obsolete or otherwise not salable, we record a provision for such loss as a component of our inventory accounts.

Inventories consist of the following:

	December 31,	
	2023	2022
	<i>(in millions)</i>	
Raw materials and work-in-progress	\$ 411.5	\$ 398.9
Finished goods	103.5	92.5
Gross inventories	515.0	491.4
Inventory valuation reserves	(32.1)	(27.5)
Inventories, net	<u>\$ 482.9</u>	<u>\$ 463.9</u>

MAINTENANCE, REPAIR AND OPERATIONS (MRO) MATERIALS We include all spare parts and other durable materials for machinery and equipment that are consumed in the manufacturing process in MRO, which is included in Other assets and deferred charges in our Consolidated Balance Sheets. MRO assets are capitalized at actual cost and amortized on a straight-line basis over a useful life of six years, beginning from their purchase date. Repair costs for MRO assets are expensed in the period incurred. Amortization expense related to MRO was \$55.6 million, \$56.0 million and \$61.6 million for 2023, 2022 and 2021, respectively.

PROPERTY, PLANT AND EQUIPMENT (PP&E) We state property, plant and equipment, including amortizable tooling, at historical cost, as adjusted for impairments. Construction in progress includes costs incurred for the construction of buildings and building improvements, and machinery and equipment in process. Repair and maintenance costs that do not extend the useful life or otherwise improve the utility of the asset beyond its existing useful state are expensed in the period incurred.

We record depreciation and tooling amortization using the straight-line method over the estimated useful lives of the depreciable assets. Depreciation and tooling amortization amounted to \$346.0 million, \$350.4 million and \$396.9 million in 2023, 2022 and 2021, respectively.

Property, plant and equipment consists of the following:

	Estimated Useful Lives <i>(years)</i>	December 31,	
		2023	2022
		<i>(in millions)</i>	
Land	Indefinite	\$ 55.4	\$ 57.8
Land improvements	10 - 15	26.9	26.5
Buildings and building improvements	15 - 40	694.9	682.0
Machinery and equipment	3 - 12	3,771.1	3,739.7
Construction in progress		151.5	140.2
		<u>4,699.8</u>	<u>4,646.2</u>
Accumulated depreciation and amortization		<u>(2,938.9)</u>	<u>(2,743.2)</u>
Property, plant and equipment, net		<u>\$ 1,760.9</u>	<u>\$ 1,903.0</u>

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

As of December 31, 2023, 2022 and 2021, we had unpaid purchases of plant and equipment in our accounts payable of \$43.1 million, \$34.2 million and \$20.1 million, respectively.

IMPAIRMENT OF LONG-LIVED ASSETS When impairment indicators exist, we evaluate the carrying value of long-lived assets for potential impairment. We consider projected future undiscounted cash flows, trends and other circumstances in making such estimates and evaluations. If impairment is deemed to exist, the carrying amount of the asset is adjusted based on its fair value. Recoverability of assets “held for use” is determined by comparing the forecasted undiscounted cash flows of the operations to which the assets relate to their carrying amount. When the carrying value of an asset group exceeds its fair value and is therefore nonrecoverable, those assets are written down to fair value. Fair value is determined based on market prices, when available, or a discounted cash flow analysis is performed using management estimates.

GOODWILL We record goodwill when the purchase price of acquired businesses exceeds the value of their identifiable net tangible and intangible assets acquired. We test our goodwill annually as of October 1, or more frequently if necessary, for impairment in accordance with the accounting guidance for goodwill and other indefinite-lived intangibles. See Note 3 - Goodwill and Other Intangible Assets, for more detail on our goodwill.

OTHER INTANGIBLE ASSETS Intangible assets are valued using primarily the relief from royalty method or the multi-period excess earnings method, both of which utilize significant unobservable inputs. These inputs are defined in the fair value hierarchy as Level 3 inputs, which require management to make estimates and assumptions regarding certain financial measures using forecasted or projected information. See Note 3 - Goodwill and Other Intangible Assets, for more detail on our intangible assets.

LEASING We record a right of use asset and lease liability when an agreement grants us the right to substantially all of the economic benefits associated with an identified asset, and we are able to direct the use of that asset throughout the term of the agreement, if such term exceeds 12 months. We exclude balance sheet recognition of right-of-use assets and associated liabilities for lease terms of 12 months or less for all classes of underlying assets. Options to extend or terminate the agreements have been included in the relevant lease term to the extent that they are reasonably certain to be exercised. For agreements that contain both lease and non-lease components, we account for these agreements as a single lease component for all classes of underlying assets. See Note 14 - Leasing, for more detail on our leases.

DEBT ISSUANCE COSTS The costs related to the issuance or modification of long-term debt are deferred and amortized into interest expense over the expected life of the borrowings. As of December 31, 2023 and December 31, 2022, our unamortized debt issuance costs were \$51.6 million and \$60.9 million, respectively. Debt issuance costs associated with our senior unsecured notes, as well as our Term Loan A Facility and Term Loan B Facility (as defined in Note 4 - Long-Term Debt), are recorded as a reduction to the related debt liability. Debt issuance costs of \$8.8 million and \$9.2 million related to our Revolving Credit Facility (also as defined in Note 4 - Long-Term Debt), are classified as Other assets and deferred charges on our Consolidated Balance Sheets as of December 31, 2023 and December 31, 2022, respectively. Unamortized debt issuance costs that exist upon the extinguishment of debt are expensed proportionally to the amount of debt extinguished and classified as Debt refinancing and redemption costs on our Consolidated Statements of Operations.

DERIVATIVES We recognize all derivatives on the balance sheet at fair value and we are not subject to master netting agreements. If a derivative qualifies under the accounting guidance as a hedge, depending on the nature of the hedge, changes in the fair value of the derivative are either offset against the change in fair value of the hedged asset, liability or firm commitment through earnings or recognized in other comprehensive income until the hedged item is recognized in earnings. Changes in the fair value of derivatives that do not qualify as hedges, are immediately recognized in earnings. See Note 5 - Derivatives and Risk Management, for more detail on our derivatives.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

CURRENCY TRANSLATION AND REMEASUREMENT We translate the assets and liabilities of our foreign subsidiaries to United States (U.S.) dollars at end-of-period exchange rates. We translate the income statement elements of our foreign subsidiaries to U.S. dollars at average-period exchange rates. We report the effect of translation for our foreign subsidiaries that use the local currency as their functional currency as a separate component of stockholders' equity. Gains and losses resulting from the remeasurement of assets and liabilities in a currency other than the functional currency of a subsidiary are reported in current period income. We also report any gains and losses arising from transactions denominated in a currency other than the functional currency of a subsidiary in current period income. These foreign currency gains and losses resulted in net gains of \$12.8 million and \$1.9 million for the years 2023 and 2022, respectively and a net loss of \$1.7 million for the year 2021 in Other income (expense), net.

PENSION AND OTHER POSTRETIREMENT DEFINED BENEFIT PLANS Net pension and postretirement benefit expenses and the related liabilities are determined on an actuarial basis. These plan expenses and obligations are dependent on management's assumptions developed in consultation with our actuaries. We review these actuarial assumptions at least annually and make modifications when appropriate. See Note 7 - Employee Benefit Plans, for more detail on our pension and other postretirement defined benefit plans.

STOCK-BASED COMPENSATION AND OTHER INCENTIVE COMPENSATION We award stock-based compensation in the form of restricted stock units (RSUs) and performance shares. For the RSUs, the grant date fair value is measured as the stock price at the date of grant. For certain performance based awards, fair value is estimated using valuation techniques that require management to use estimates and assumptions. Certain awards require that management's estimates and assumptions be evaluated at each reporting date to determine if compensation expense related to the award should be adjusted, both on a catch-up and go-forward basis.

We also award incentive compensation in the form of long-term cash awards (LTCAs) and performance units (PUs). We grant the LTCAs payable in cash to certain associates which vest in full over a three-year period. We also grant PUs payable in cash to officers and certain other associates which vest in full over a three-year performance period and are based primarily on AAM's three-year cumulative free cash flow.

Compensation expense is recognized over the period during which the requisite service is provided, referred to as the vesting period. See Note 8 - Stock-Based Compensation and Other Incentive Compensation, for more detail on our accounting for stock-based compensation and other incentive compensation.

RESEARCH AND DEVELOPMENT COSTS We expense R&D, as incurred, in selling, general and administrative expenses on our Consolidated Statements of Operations. R&D spending was \$155.4 million, \$144.0 million and \$116.8 million in 2023, 2022 and 2021, respectively. In 2023, 2022 and 2021, our R&D expense is net of approximately \$37.0 million, \$20.0 million and \$15.0 million, respectively, of costs capitalized as a result of contractual guarantees with customers to recover engineering, design and development costs.

DEFERRED INCOME TAX ASSETS AND LIABILITIES AND VALUATION ALLOWANCES Our deferred income tax assets and liabilities reflect the impact of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the basis of such assets and liabilities for income tax purposes.

In accordance with the accounting guidance for income taxes, we review the likelihood that we will realize the benefit of deferred tax assets and estimate whether recoverability of our deferred tax assets is "more likely than not," based on forecasts of taxable income in the related tax jurisdictions. In determining the requirement for a valuation allowance, the historical results, projected future operating results based upon approved business plans, eligible carry forward periods, and tax planning opportunities are considered, along with other relevant positive and negative evidence. If, based upon available evidence, it is more likely than not the deferred tax assets will not be realized, a valuation allowance is recorded.

We record uncertain tax positions on the basis of a two-step process whereby: 1) we determine whether it is "more likely than not" that the tax positions will be sustained based on the technical merits of the position; and 2) for those positions that meet the "more likely than not" recognition threshold, we recognize the largest amount of tax benefit that is greater than 50% likely to be realized upon ultimate settlement with the related tax authority. We record interest and penalties on uncertain tax positions in income tax expense (benefit).

See Note 9 - Income Taxes, for more detail on our accounting for income taxes.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

EARNINGS (LOSS) PER SHARE (EPS) We present EPS using the two-class method. This method allocates undistributed earnings between common shares and non-vested share based payment awards that entitle the holder to non-forfeitable dividend rights. Our participating securities are our non-vested restricted stock units. See Note 10 - Earnings (Loss) Per Share (EPS), for more detail on our accounting for EPS.

PRODUCT WARRANTY We record estimated warranty obligation liabilities at the dates our products are sold, using sales volumes and internal and external warranty data where there is no payment history and historical information about the average cost of warranty claims for customers with prior claims. We estimate our costs based on the contractual arrangements with our customers, existing customer warranty terms and internal and external warranty data, which includes a determination of our warranty claims and actions taken to improve product quality and minimize warranty claims. See Note 11 - Commitments and Contingencies, for detail on our accounting for product warranties.

USE OF ESTIMATES In order to prepare consolidated financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP), we are required to make estimates and assumptions that affect the reported amounts and disclosures in our consolidated financial statements. Actual results could differ from those estimates.

EFFECT OF NEW ACCOUNTING STANDARDS

Standards Not Yet Adopted

Accounting Standards Update 2023-07

On November 27, 2023, the Financial Accounting Standards Board (FASB) issued Accounting Standard Update (ASU) 2023-07 - *Improvements to Reportable Segment Disclosures (Topic 280)*. ASU 2023-07 enhances existing annual segment requirements to include disclosure of significant segment expenses and other segment items by reportable segment that are regularly used by the Chief Operating Decision Maker (CODM) to evaluate segment performance. This guidance also requires annual disclosure of the title and position of the CODM. ASU 2023-07 also expands interim segment disclosure requirements to include all existing annual segment disclosures in addition to the new disclosure requirements for significant segment expenses and other segment items. This guidance becomes effective at the beginning of our 2024 fiscal year for annual requirements, and at the beginning of our 2025 fiscal year for interim requirements, using a retrospective transition method. We will adopt this guidance retrospectively on January 1, 2024 for the annual requirements and will adopt the interim requirements on January 1, 2025. We are currently assessing the impact that this standard will have on our consolidated financial statements.

Accounting Standards Update 2023-09

On December 14, 2023, the FASB issued ASU 2023-09 - *Improvements to Income Tax Disclosures (Topic 740)*. ASU 2023-09 expands the existing disclosure requirements for the annual rate reconciliation between the effective tax rate and the statutory federal tax rate by requiring reconciliation items to be disaggregated by defined categories and disclosed as both percentages and amounts. ASU 2023-09 also requires the disaggregation of income taxes paid by jurisdiction for each annual period presented. This guidance becomes effective at the beginning of our 2025 fiscal year, and may be applied either retrospectively or prospectively. We expect to adopt this guidance on January 1, 2025 and are currently assessing the impact that this standard will have on our consolidated financial statements.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

2. RESTRUCTURING AND ACQUISITION-RELATED COSTS

In the first quarter of 2020, we initiated a global restructuring program (the 2020 Program). The primary objectives of the 2020 Program were to achieve efficiencies within our corporate and business unit support teams to reduce cost in our business, and to structurally adjust our operations to a new level of market demand based on the impact of COVID-19. From inception of the 2020 Program, we incurred restructuring costs totaling \$112.4 million. The 2020 Program has concluded and we do not expect to incur any additional charges under this program.

In 2021, we completed our acquisition of a manufacturing facility in Emporium, Pennsylvania (Emporium), and subsequently ceased production at the facility and relocated the production capacity to other AAM manufacturing facilities. As a result, we incurred a total of \$16.5 million of restructuring charges related to the closure of the facility. As of December 31, 2023, we had completed our exit of Emporium and we do not expect to incur any additional charges related to Emporium.

In 2022, we completed our acquisition of Tekfor Group (Tekfor) and in 2023 initiated certain restructuring actions associated with the acquired entities.

In the first quarter of 2024, we initiated a new global restructuring program (the 2024 Program) focused on optimizing our cost structure. We expect to incur costs under the 2024 Program into 2026.

A summary of our restructuring activity for the years 2023, 2022 and 2021 is shown below:

	Severance Charges		Implementation Costs		Total
			<i>(in millions)</i>		
Accrual at January 1, 2021	\$ 1.7	\$	9.8	\$	11.5
Charges	2.9		40.3		43.2
Cash utilization	(3.9)		(47.4)		(51.3)
Accrual at December 31, 2021	0.7		2.7		3.4
Charges	3.5		18.2		21.7
Cash utilization	(1.8)		(19.5)		(21.3)
Accrual at December 31, 2022	2.4		1.4		3.8
Charges	7.2		11.1		18.3
Cash utilization	(6.6)		(10.8)		(17.4)
Accrual at December 31, 2023	\$ 3.0	\$	1.7	\$	4.7

As part of our restructuring actions during 2023, we incurred severance charges of approximately \$7.2 million, as well as implementation costs, consisting primarily of plant exit costs and professional fees, of approximately \$11.1 million. In 2023, we incurred \$11.8 million of restructuring costs under the 2020 Program, incurred \$4.4 million of costs associated with the closure of Emporium, and \$2.1 million of costs related to restructuring actions associated with Tekfor.

Approximately \$4.9 million and \$11.3 million of our total restructuring costs in 2023 related to our Driveline and Metal Forming segments, respectively, while the remainder were corporate costs.

In 2022, we incurred severance charges of approximately \$3.5 million, as well as implementation costs, consisting primarily of plant exit costs and professional fees, of approximately \$18.2 million. Approximately \$1.6 million and \$14.3 million of our total restructuring costs in 2022 related to our Driveline and Metal Forming segments, respectively, while the remainder were corporate costs.

In 2021, we incurred severance charges of approximately \$2.9 million, as well as implementation costs, consisting primarily of plant exit costs and professional fees, of approximately \$40.3 million. Approximately \$4.7 million and \$6.5 million of our total restructuring costs in 2021 related to our Driveline and Metal Forming segments, respectively, while the remainder were corporate costs.

We expect to incur approximately \$10 million to \$20 million of total restructuring charges in 2024 as we begin restructuring actions associated with the 2024 Program and continue our restructuring actions associated with Tekfor.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

In 2023 and 2022, we incurred acquisition and integration costs associated with our acquisition of Tekfor, and in 2022 and 2021, we incurred acquisition and integration costs associated with our acquisition of Emporium. In 2021, we also incurred the remaining integration costs associated with our 2017 acquisition of MPG. The following table represents a summary of charges incurred in 2023, 2022 and 2021 associated with acquisition and integration costs:

	Acquisition- Related Costs	Integration Expenses	Total
	<i>(in millions)</i>		
2023 Charges	\$ —	\$ 6.9	\$ 6.9
2022 Charges	6.0	2.5	8.5
2021 Charges	0.4	5.8	6.2

Acquisition-related costs primarily consist of advisory, legal, accounting, valuation and certain other professional or consulting fees incurred. Integration expenses primarily reflect costs incurred for information technology infrastructure and enterprise resource planning systems, and consulting fees incurred in conjunction with integration activities.

Total restructuring charges and acquisition-related charges of \$25.2 million, \$30.2 million and \$49.4 million are shown on a separate line item titled "Restructuring and Acquisition-Related Costs" in our Consolidated Statements of Operations for 2023, 2022 and 2021, respectively.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

3. GOODWILL AND OTHER INTANGIBLE ASSETS

Goodwill The following table provides a reconciliation of changes in goodwill for the year ended December 31, 2023 and the year ended December 31, 2022:

	Consolidated
	<i>(in millions)</i>
Balance as of January 1, 2022.....	\$ 183.8
Foreign currency translation.....	(2.2)
Balance as of December 31, 2022.....	\$ 181.6
Foreign currency translation.....	0.5
Balance as of December 31, 2023.....	\$ 182.1

We conduct our annual goodwill impairment test in the fourth quarter of each year, as well as whenever adverse events or changes in circumstances indicate a possible impairment. In performing this test, we utilize a third-party valuation specialist to assist management in determining the fair value of our reporting units. Fair value of each reporting unit is estimated based on a combination of discounted cash flows and the use of pricing multiples derived from an analysis of comparable public companies multiplied against historical and/or anticipated financial metrics of each reporting unit. These calculations contain uncertainties as they require management to make assumptions including, but not limited to, market comparables, future cash flows of the reporting units, and appropriate discount and long-term growth rates. This fair value determination is categorized as Level 3 within the fair value hierarchy. We completed our annual goodwill impairment test for our Driveline reporting unit in the fourth quarter of 2023 and no impairment was identified.

At December 31, 2023, accumulated goodwill impairment losses were \$1,435.5 million.

Other Intangible Assets The following table provides a reconciliation of the gross carrying amount and associated accumulated amortization for AAM's other intangible assets, which are all subject to amortization, as of December 31, 2023 and December 31, 2022:

	December 31,			December 31,		
	2023			2022		
	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
	<i>(in millions)</i>					
Capitalized computer software.....	\$ 54.2	\$ (49.2)	\$ 5.0	\$ 52.2	\$ (43.2)	\$ 9.0
Customer platforms.....	856.2	(428.2)	428.0	856.2	(364.7)	491.5
Customer relationships.....	53.0	(23.1)	29.9	53.0	(19.7)	33.3
Technology and other.....	154.3	(84.4)	69.9	154.1	(71.7)	82.4
Total	\$ 1,117.7	\$ (584.9)	\$ 532.8	\$ 1,115.5	\$ (499.3)	\$ 616.2

Amortization expense for our intangible assets was \$85.6 million for the year ended December 31, 2023, \$85.7 million for the year ended December 31, 2022, and \$85.8 million for the year ended December 31, 2021. Amortization expense for the years 2024 through 2028 is expected to be in the range of approximately \$80 million to \$85 million per year.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

4. LONG-TERM DEBT

Long-term debt, net consists of the following:

	December 31,	
	2023	2022
	<i>(in millions)</i>	
Revolving credit facility	\$ —	\$ 25.0
Term Loan A Facility	484.3	520.0
Term Loan B Facility	648.0	675.0
6.875% Notes due 2028	400.0	400.0
6.50% Notes due 2027	500.0	500.0
6.25% Notes due 2026	127.6	180.0
5.00% Notes due 2029	600.0	600.0
Foreign credit facilities	51.8	72.7
Total debt	<u>2,811.7</u>	<u>2,972.7</u>
Less: Current portion of long-term debt	<u>17.0</u>	<u>75.9</u>
Long-term debt	<u>2,794.7</u>	<u>2,896.8</u>
Less: Debt issuance costs	<u>42.8</u>	<u>51.7</u>
Long-term debt, net	<u>\$ 2,751.9</u>	<u>\$ 2,845.1</u>

SENIOR SECURED CREDIT FACILITIES Holdings and American Axle & Manufacturing, Inc. (AAM, Inc.) are parties to an amended and restated credit agreement including a term loan A facility (the Term Loan A Facility), term loan B facility (the Term Loan B Facility) and a multi-currency revolving credit facility (the Revolving Credit Facility), which was entered into on March 11, 2022 and was amended on December 13, 2022 and June 28, 2023 (the Amended and Restated Credit Agreement). In connection with the Amended and Restated Credit Agreement, Holdings, AAM, Inc. and certain of their restricted subsidiaries are parties to a collateral agreement and guarantee agreement with the financial institutions party thereto. The Amended and Restated Credit Agreement includes customary covenants, including a total net leverage ratio covenant, a cash interest expense coverage ratio covenant, and certain covenants restricting the ability of Holdings, AAM, Inc. and certain subsidiaries of Holdings to create, incur, assume or permit to exist certain additional indebtedness and liens, to make investments and to make or agree to pay or make certain restricted payments, voluntary payments and distributions.

On June 28, 2023, Holdings and AAM, Inc. entered into the First Amendment to the Amended and Restated Credit Agreement (the First Amendment), which covers the period from June 28, 2023 through the filing of our second quarter 2024 results, or earlier at AAM's option, subject to certain conditions (the Amendment Period). The First Amendment, among other things, increased the maximum levels of the total net leverage ratio covenant and reduced the minimum levels of the cash interest expense coverage ratio covenant during the Amendment Period, modified certain categories of the applicable margin (determined based on the total net leverage ratio of Holdings) for the duration of the Amendment Period with respect to interest rates under the Term Loan A Facility and the Revolving Credit Facility, and modified certain covenants restricting the ability of Holdings, AAM, Inc. and certain subsidiaries of Holdings to create, incur, assume, or permit to exist certain additional indebtedness and liens and to make or agree to pay or make certain restricted payments, voluntary payments and distributions. The terms of the Term Loan B Facility under the Amended and Restated Credit Agreement, including maturity dates, interest rates and their applicable margins, remain unchanged.

We paid debt issuance costs of \$3.2 million in the year ended December 31, 2023 related to the First Amendment and in 2022, we expensed \$0.6 million of debt refinancing costs, paid accrued interest of \$3.4 million, and paid debt issuance costs of \$31.4 million related to the Amended and Restated Credit Agreement.

In 2023, we made voluntary prepayments totaling \$26.0 million on our Term Loan A Facility and \$20.2 million on our Term Loan B Facility. As a result, we expensed approximately \$1.1 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of these borrowings.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

In 2022, prior to amending the Amended and Restated Credit Agreement in the fourth quarter, we made voluntary prepayments totaling \$100.0 million on our then outstanding term loan B facility. As a result, we expensed approximately \$0.6 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of this borrowing.

In 2021, we made voluntary prepayments totaling \$21.2 million on our Term Loan A Facility and \$238.8 million on our Term Loan B Facility. As a result, we expensed approximately \$2.5 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of these borrowings.

At December 31, 2023, \$892.3 million was available under the Revolving Credit Facility. This availability reflects a reduction of \$32.7 million for standby letters of credit issued against the facility. The proceeds of the Revolving Credit Facility are used for general corporate purposes. In the first quarter of 2023, we paid \$25.0 million on our Revolving Credit Facility that had been drawn in the fourth quarter of 2022.

The Revolving Credit Facility, the Term Loan A Facility and the Term Loan B Facility (collectively, the Senior Secured Credit Facilities) provide back-up liquidity for our foreign credit facilities. We intend to use the availability of long-term financing under the Senior Secured Credit Facilities to refinance any current maturities related to such debt agreements that are not otherwise refinanced on a long-term basis in their local markets, except where otherwise reclassified to Current portion of long-term debt on our Consolidated Balance Sheet.

REDEMPTION OF 6.25% NOTES DUE 2026 In the fourth quarter of 2023, we voluntarily redeemed a portion of our 6.25% Notes due 2026. This resulted in a principal payment of \$50.0 million and \$0.9 million in accrued interest. We also expensed approximately \$0.2 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of the borrowing. In the fourth quarter of 2023, we also completed an open market repurchase of our 6.25% Notes due 2026 of \$2.4 million.

In the first quarter of 2022, we also voluntarily redeemed a portion of our 6.25% Notes due 2026. This resulted in a principal payment of \$220.0 million and \$0.2 million in accrued interest. We also expensed approximately \$1.8 million for the write-off of a portion of the unamortized debt issuance costs that we had been amortizing over the expected life of the borrowing, and approximately \$3.4 million for the payment of an early redemption premium.

5.00% NOTES DUE 2029 In the third quarter of 2021, we issued \$600.0 million in aggregate principal amount of 5.00% Notes due 2029 (the 5.00% Notes). Proceeds from the 5.00% Notes were used to fund a portion of the redemption of the 6.25% Notes due 2025 described below. We paid debt issuance costs of \$9.2 million in the twelve months ended December 31, 2021 related to the 5.00% Notes.

REDEMPTION OF 6.25% NOTES DUE 2025 In 2021, we voluntarily redeemed our 6.25% Notes due 2025. This resulted in principal payments totaling \$700.0 million and \$19.4 million in accrued interest. We also expensed approximately \$9.6 million for the write-off of the unamortized debt issuance costs that we had been amortizing over the expected life of the borrowing, and approximately \$21.9 million for the payment of an early redemption premium.

REPAYMENT OF TEKFOR GROUP INDEBTEDNESS Upon the acquisition of Tekfor, we assumed \$23.4 million of existing Tekfor indebtedness, of which we repaid \$10.7 million in 2022.

FOREIGN CREDIT FACILITIES We utilize local currency credit facilities to finance the operations of certain foreign subsidiaries. These credit facilities, some of which are guaranteed by Holdings and/or AAM, Inc., expire at various dates through September 2028. At December 31, 2023, \$51.8 million was outstanding under our foreign credit facilities and an additional \$84.7 million was available. At December 31, 2022, \$72.7 million was outstanding under these facilities and an additional \$57.8 million was available.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

DEBT MATURITIES Aggregate maturities of long-term debt are as follows *(in millions)*:

2024	\$	29.1
2025		46.3
2026		190.2
2027		900.0
2028		411.7
Thereafter		1,234.4
Total	<u>\$</u>	<u>2,811.7</u>

INTEREST EXPENSE AND INTEREST INCOME Interest expense was \$201.7 million in 2023, \$174.5 million in 2022 and \$195.2 million in 2021.

We capitalized interest of \$8.0 million in 2023, \$6.6 million in 2022 and \$6.2 million in 2021. The weighted-average interest rate of our long-term debt outstanding at December 31, 2023 was 7.1%, as compared to 6.6% and 5.6% at December 31, 2022 and December 31, 2021, respectively.

Interest income was \$26.2 million in 2023, \$17.0 million in 2022 and \$10.9 million in 2021. Interest income primarily includes interest earned on cash and cash equivalents, the deferred payment obligation associated with the sale of our former Casting segment, as well as the impact of the interest rate differential on our fixed-to-fixed cross-currency swap.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

5. DERIVATIVES AND RISK MANAGEMENT

DERIVATIVE FINANCIAL INSTRUMENTS In the normal course of business, we are exposed to market risk associated with changes in foreign currency exchange rates and interest rates. To manage a portion of these inherent risks, we may purchase certain types of derivative financial instruments based on management's judgment of the trade-off between risk, opportunity and cost. We do not hold or issue derivative financial instruments for trading or speculative purposes. The impact of hedge ineffectiveness was not significant in any of the periods presented.

CURRENCY DERIVATIVE CONTRACTS From time to time, we use foreign currency forward contracts to reduce the effects of fluctuations in exchange rates relating to certain foreign currencies. As of December 31, 2023 and December 31, 2022, we had currency forward contracts outstanding with a total notional amount of \$206.9 million and \$179.9 million, respectively, that hedge our exposure to changes in foreign currency exchange rates for certain payroll expenses into the second quarter of 2026 and the purchase of certain direct and indirect inventory and other working capital items into the fourth quarter of 2024.

FIXED-TO-FIXED CROSS-CURRENCY SWAP In 2022, we discontinued an existing fixed-to-fixed cross-currency swap, which was in an asset position of \$9.7 million on the date that it was discontinued. Also in 2022, we entered into a new fixed-to-fixed cross-currency swap to reduce the variability of functional currency equivalent cash flows associated with changes in exchange rates on certain Euro-based intercompany loans. We had notional amounts outstanding under the fixed-to fixed cross-currency swap of €200.0 million at both December 31, 2023 and December 31, 2022, which was equivalent to \$220.7 million and \$213.9 million, respectively. The fixed-to-fixed cross-currency swap hedges our exposure to changes in exchange rates on the intercompany loans into the second quarter of 2024.

VARIABLE-TO-FIXED INTEREST RATE SWAP In 2022, we discontinued an existing variable-to-fixed interest rate swap, which was in an asset position of \$6.1 million on the date that it was discontinued. In 2022, and in the first quarter of 2023, we entered into new variable-to-fixed interest rate swaps to reduce the variability of cash flows associated with interest payments on our variable rate debt. In the third quarter of 2023, we discontinued these variable-to-fixed interest rate swaps, which were in an asset position of \$27.2 million on the date that they were discontinued.

Also in the third quarter of 2023, we entered into new variable-to-fixed interest rate swaps to reduce the variability of cash flows associated with interest payments on our variable rate debt. As of December 31, 2023, we have \$700.0 million notional amount hedged in relation to our variable-to-fixed interest rate swap into the third quarter of 2027, \$200.0 million of which continues into the fourth quarter of 2029.

The following table summarizes the reclassification of pre-tax derivative gains and losses into net income (loss) from accumulated other comprehensive income (loss) for those derivative instruments designated as cash flow hedges under Accounting Standards Codification (ASC) 815 - Derivatives and Hedging:

	Location of Gain (Loss) Reclassified into Net Income (Loss)	Gain (Loss) Reclassified During the Twelve Months Ended December 31,			Total of Financial Statement Line Item	Gain Expected to be Reclassified During the Next 12 Months
		2023	2022	2021	2023	
<i>(in millions)</i>						
Currency forward contracts	Cost of Goods Sold	\$ 19.9	\$ 6.5	\$ 5.6	\$ 5,455.2	\$ 15.9
Fixed-to-fixed cross-currency swap	Other Income (Expense), net	(6.6)	13.7	19.0	8.1	0.6
Variable-to-fixed interest rate swap	Interest Expense	3.6	2.7	(14.8)	(201.7)	1.2

See Note 12 - Reclassifications Out of Accumulated Other Comprehensive Income (Loss) for amounts recognized in Accumulated other comprehensive income (loss) during the years ended December 31, 2023, December 31, 2022 and December 31, 2021.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The following table summarizes the amount and location of gains recognized in the Consolidated Statements of Operations for those derivative instruments not designated as hedging instruments under ASC 815:

Location of Gain (Loss) Recognized in Net Income (Loss)	Gain Recognized During the Twelve Months Ended December 31,			Total of Financial Statement Line Item 2023
	2023	2022	2021	
	<i>(in millions)</i>			
Currency forward contracts.. Other Income (Expense), Net	\$ 4.7	\$ 2.5	\$ 0.2	\$ 8.1

CONCENTRATIONS OF CREDIT RISK In the normal course of business, we provide credit to customers. We periodically evaluate the creditworthiness of our customers and we maintain reserves for potential credit losses.

Sales to General Motors Company (GM) were approximately 39% of our consolidated net sales in 2023, 40% in 2022, and 37% in 2021. Accounts and other receivables due from GM were \$305.7 million at year-end 2023 and \$334.4 million at year-end 2022. Sales to Stellantis N.V. (Stellantis), were approximately 16% of our consolidated net sales in 2023, 18% in 2022 and 19% in 2021. Accounts and other receivables due from Stellantis were \$108.1 million at year-end 2023 and \$115.3 million at year-end 2022. Sales to Ford Motor Company (Ford) were approximately 12% of our consolidated net sales in 2023, 2022 and 2021. Accounts and other receivables due from Ford were \$118.1 million at year-end 2023 and \$101.7 million at year end 2022. No other single customer accounted for more than 10% of our consolidated net sales in any year presented.

In addition, our total GM postretirement cost sharing asset was \$120.0 million as of December 31, 2023 and \$138.2 million as of December 31, 2022. See Note 7 - Employee Benefit Plans for more detail on this cost sharing asset.

We diversify the concentration of invested cash and cash equivalents among different financial institutions and we monitor the selection of counterparties to other financial instruments to avoid unnecessary concentrations of credit risk.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

6. FAIR VALUE

ASC 820 - *Fair Value Measurement* defines fair value as “the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.” The definition is based on an exit price rather than an entry price, regardless of whether the entity plans to hold or sell the asset. This guidance also establishes a fair value hierarchy to prioritize inputs used in measuring fair value as follows:

- Level 1: Observable inputs such as quoted prices in active markets;
- Level 2: Inputs, other than quoted prices in active markets, that are observable either directly or indirectly; and
- Level 3: Unobservable inputs in which there is little or no market data, which require the reporting entity to develop its own assumptions.

FINANCIAL INSTRUMENTS The estimated fair values of our financial assets and liabilities that are recognized at fair value on a recurring basis, using available market information and other observable data are as follows:

	Fair Value		Input
	December 31, 2023	December 31, 2022	
	<i>(in millions)</i>		
Balance Sheet Classification			
Cash equivalents	\$ 328.3	\$ 363.6	Level 1
Prepaid expenses and other			
Cash flow hedges - currency forward contracts	15.9	8.2	Level 2
Cash flow hedges - variable-to-fixed interest rate swap	—	2.4	Level 2
Nondesignated - currency forward contracts	0.8	0.5	Level 2
Other assets and deferred charges			
Cash flow hedges - currency forward contracts	5.4	3.0	Level 2
Cash flow hedges - variable-to-fixed interest rate swap	—	8.5	Level 2
Investment in equity securities	0.8	1.9	Level 1
Accrued expenses and other			
Cash flow hedges - fixed-to-fixed cross-currency swap	9.4	—	Level 2
Cash flow hedges - variable-to-fixed interest rate swap	5.0	—	Level 2
Postretirement benefits and other long-term liabilities			
Cash flow hedges - fixed-to-fixed cross-currency swap	—	1.5	Level 2
Cash flow hedges - variable-to-fixed interest rate swap	16.5	—	Level 2

The carrying values of our cash, accounts receivable, accounts payable and accrued liabilities approximate their fair values due to the short-term maturities of these instruments. The carrying values of our borrowings under the foreign credit facilities approximate their fair values due to the frequent resetting of the interest rates.

We have an investment in the equity securities of REE Automotive, an e-mobility company. These equity securities are measured at fair value each reporting period with changes in fair value reported through an unrealized gain or loss within Other income (expense), net in our Consolidated Statements of Operations. In the fourth quarter of 2023, REE Automotive executed a one-for-thirty reverse stock split of its common shares, resulting in a proportional increase to its share price. As of December 31, 2023, our investment in REE shares was valued at \$0.8 million based on a closing price on that date of \$5.14 per share.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

We estimated the fair value of our outstanding debt using available market information and other observable data to be as follows:

	December 31, 2023		December 31, 2022		Input
	Carrying Amount	Fair Value	Carrying Amount	Fair Value	
	<i>(in millions)</i>				
Revolving Credit Facility	\$ —	\$ —	\$ 25.0	\$ 25.0	Level 2
Term Loan A Facility	484.3	483.6	520.0	510.3	Level 2
Term Loan B Facility	648.0	649.6	675.0	658.1	Level 2
6.875% Notes due 2028	400.0	387.0	400.0	355.4	Level 2
6.50% Notes due 2027	500.0	501.9	500.0	452.5	Level 2
6.25% Notes due 2026	127.6	126.3	180.0	165.7	Level 2
5.00% Notes due 2029	600.0	529.5	600.0	474.9	Level 2

Investments in our defined benefit pension plans are stated at fair value. See Note 7 - Employee Benefit Plans for additional fair value disclosures of our pension plan assets.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

7. EMPLOYEE BENEFIT PLANS

PENSION AND OTHER POSTRETIREMENT DEFINED BENEFIT PLANS We sponsor various qualified and non-qualified defined benefit pension plans for our eligible associates. We also maintain hourly and salaried benefit plans that provide postretirement medical, dental, vision and life insurance benefits (OPEB) to our eligible retirees and their dependents in the U.S.

Actuarial valuations of our benefit plans were made as of December 31, 2023 and 2022. The primary weighted-average assumptions used in the year-end valuation of our principal plans appear in the following table. The U.S. discount rates are based on an actuarial review of a hypothetical portfolio of long-term, high quality corporate bonds matched against the expected payment stream for each of our plans. The discount rates for the non-U.S. plans are based on hypothetical yield curves developed from corporate bond yield information within each regional market. The assumptions for expected return on plan assets are based on future capital market expectations for the asset classes represented within our portfolios and a review of long-term historical returns. The rates of increase in compensation and health care costs are based on current market conditions, inflationary expectations and historical information.

	Pension Benefits						OPEB		
	2023		2022		2021		2023	2022	2021
	U.S.	Non-U.S.	U.S.	Non-U.S.	U.S.	Non-U.S.			
Discount rate.....	5.15 %	4.50 %	5.50 %	4.40 %	2.90 %	1.85 %	5.15 %	5.50 %	2.90 %
Expected return on plan assets.....	6.75 %	4.90 %	6.75 %	4.00 %	7.00 %	4.00 %	N/A	N/A	N/A
Rate of compensation increase.....	N/A	3.30 %	N/A	3.25 %	N/A	3.70 %	4.00 %	4.00 %	4.00 %

The accumulated benefit obligation for all defined benefit pension plans was \$486.9 million and \$481.8 million at December 31, 2023 and December 31, 2022, respectively. As of December 31, 2023, the accumulated benefit obligation for our underfunded defined benefit pension plans was \$399.0 million, the projected benefit obligation was \$399.0 million and the fair value of assets for these plans was \$318.5 million.

Certain eligible retirees under our OPEB plans have past service with both AAM and GM. AAM and GM share proportionally in the cost of OPEB for these retirees based on the length of service an employee had with AAM and GM. We have included in our OPEB obligation the amounts expected to be received from GM pursuant to this agreement of \$120.0 million and \$138.2 million at December 31, 2023 and December 31, 2022, respectively. We have also recorded a corresponding asset for these amounts on our Consolidated Balance Sheets, \$8.1 million that is classified as a current asset and \$111.9 million that is classified as a noncurrent asset as of December 31, 2023.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The following table summarizes the changes in projected benefit obligations and plan assets and reconciles the funded status of the benefit plans, which is the net benefit plan liability:

	Pension Benefits		OPEB	
	December 31,		December 31,	
	2023	2022	2023	2022
	<i>(in millions)</i>			
Change in benefit obligation				
Benefit obligation at beginning of year	\$ 482.4	\$ 674.1	\$ 329.6	\$ 509.6
Service cost	1.1	1.7	0.2	0.3
Interest cost	24.4	16.5	10.1	8.4
Plan amendments	(0.6)	—	—	(0.5)
Actuarial loss (gain)	6.7	(175.9)	(21.4)	(101.3)
Change in GM portion of OPEB obligation	—	—	(18.2)	(75.0)
Participant contributions	0.2	0.2	—	—
Curtailments	(0.5)	—	—	—
Settlements	(6.1)	—	—	—
Benefit payments	(27.5)	(27.4)	(12.5)	(11.9)
Tekfor acquisition	—	14.3	—	—
Currency fluctuations	6.8	(21.1)	—	—
Net change	<u>4.5</u>	<u>(191.7)</u>	<u>(41.8)</u>	<u>(180.0)</u>
Benefit obligation at end of year	<u>\$ 486.9</u>	<u>\$ 482.4</u>	<u>\$ 287.8</u>	<u>\$ 329.6</u>
Change in plan assets				
Fair value of plan assets at beginning of year	\$ 406.9	\$ 573.8	\$ —	\$ —
Actual return on plan assets	19.0	(127.1)	—	—
Employer contributions	9.2	2.5	12.5	11.9
Participant contributions	0.2	0.2	—	—
Benefit payments	(27.5)	(27.4)	(12.5)	(11.9)
Settlements	(6.1)	—	—	—
Tekfor acquisition	—	7.5	—	—
Currency fluctuations	6.4	(22.6)	—	—
Net change	<u>1.2</u>	<u>(166.9)</u>	<u>—</u>	<u>—</u>
Fair value of plan assets at end of year	<u>\$ 408.1</u>	<u>\$ 406.9</u>	<u>\$ —</u>	<u>\$ —</u>

Amounts recognized in our Consolidated Balance Sheets are as follows:

	Pension Benefits		OPEB	
	December 31,		December 31,	
	2023	2022	2023	2022
	<i>(in millions)</i>			
Noncurrent assets	\$ 1.7	\$ 5.1	\$ —	\$ —
Current liabilities	(5.8)	(7.1)	(18.9)	(24.8)
Noncurrent liabilities	(74.7)	(73.5)	(268.9)	(304.8)
Net liability	<u>\$ (78.8)</u>	<u>\$ (75.5)</u>	<u>\$ (287.8)</u>	<u>\$ (329.6)</u>

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Pre-tax amounts recorded in accumulated other comprehensive income (loss) (AOCI), not yet recognized in net periodic benefit cost (credit) as of December 31, 2023 and 2022, consists of:

	Pension Benefits		OPEB	
	December 31,		December 31,	
	2023	2022	2023	2022
	<i>(in millions)</i>			
Net actuarial gain (loss)	\$ (212.2)	\$ (200.0)	\$ 146.0	\$ 133.1
Net prior service credit (cost)	0.3	(1.5)	0.7	1.2
Total amounts recorded	<u>\$ (211.9)</u>	<u>\$ (201.5)</u>	<u>\$ 146.7</u>	<u>\$ 134.3</u>

The increase in net actuarial loss for pension benefits was primarily attributable to the impact of the actual return on pension assets in 2023 as compared to our assumption for expected return on pension assets, as well as decreased discount rates used in the valuation at December 31, 2023, as compared to prior year, partially offset by the impact of amortization of prior actuarial losses. The increase in net actuarial gain for OPEB benefits was primarily attributable to favorable per capita cost and healthcare plan subsidy assumptions as compared to prior year, partially offset by a decrease in the discount rate and the impact of amortization of prior actuarial gains.

The components of net periodic benefit cost (credit) are as follows:

	Pension Benefits			OPEB		
	2023	2022	2021	2023	2022	2021
		<i>(in millions)</i>				
Service cost	\$ 1.1	\$ 1.7	\$ 2.0	\$ 0.2	\$ 0.3	\$ 0.3
Interest cost	24.4	16.5	17.3	10.1	8.4	8.4
Expected asset return	(29.3)	(31.0)	(39.0)	—	—	—
Amortized actuarial loss (gain)	4.1	7.6	10.8	(8.5)	0.5	1.7
Amortized prior service cost (credit) ..	0.1	0.1	0.1	(0.5)	(0.9)	(1.5)
Curtailment charge	1.2	—	—	—	—	—
Settlement charge	0.1	—	42.3	—	—	—
Net periodic benefit cost (credit)	<u>\$ 1.7</u>	<u>\$ (5.1)</u>	<u>\$ 33.5</u>	<u>\$ 1.3</u>	<u>\$ 8.3</u>	<u>\$ 8.9</u>

Our postretirement cost sharing asset from GM is measured on the same basis as the portion of the obligation to which it relates. The actuarial gains and losses related to the GM portion of the OPEB obligation are recognized immediately in the Consolidated Statements of Operations as an offset against the gains and losses related to the change in the corresponding GM postretirement cost sharing asset. These items are presented net in the change in benefit obligation and net periodic benefit cost components disclosed above. Remaining actuarial gains and losses are deferred and amortized over the expected future service periods of the active participants or the remaining life expectancy of the inactive participants.

For measurement purposes, a weighted average annual increase in the per-capita cost of covered health care benefits of 7.00% was assumed for 2024. The rate was assumed to decrease gradually to 5.00% by 2034 and to remain at that level thereafter.

The expected future pension and other postretirement benefits to be paid, net of GM cost sharing, for each of the next five years and in the aggregate for the succeeding five years thereafter are as follows: \$51.5 million in 2024; \$50.3 million in 2025; \$52.9 million in 2026; \$50.7 million in 2027; \$50.6 million in 2028 and \$238.7 million for 2029 through 2033. These amounts were estimated using the same assumptions that were used to measure our 2023 year-end pension and OPEB obligations and include an estimate of future employee service.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Contributions We contributed \$0.6 million to our pension trusts in 2023. Due to the availability of our pre-funded pension balances (previous contributions in excess of prior required pension contributions), we expect our regulatory pension funding requirements in 2024 to be less than \$1.0 million. We expect our cash payments, net of GM cost sharing, for OPEB to be approximately \$11.0 million in 2024.

U.S. pension annuity purchase In 2021, we purchased group annuity contracts from an insurance company to settle pension obligations for certain U.S. plan participants (Pension Annuity Purchase). The purchase of the group annuity contracts, which was paid from plan assets, irrevocably transferred the remaining future pension benefit obligations for these U.S. plan participants to the insurance company and reduced our liabilities and administrative costs going forward.

The Pension Annuity Purchase included approximately 3,400 of our U.S. pension plan participants. As a result of this settlement, we remeasured the assets and liabilities of our U.S. pension plans, which reduced our projected benefit obligation by \$97.3 million and resulted in a non-cash pre-tax settlement charge of \$42.3 million in the fourth quarter of 2021 related to the accelerated recognition of certain deferred losses.

Pension plan assets The weighted-average asset allocations of our pension plan assets at December 31, 2023 and 2022 appear in the following table. The asset allocation for our plans is developed in consideration of the demographics of the plan participants and expected payment stream of the benefit obligation.

	U.S.			Non-U.S.		
	2023	2022	Target Allocation	2023	2022	Target Allocation
Equity securities	23.8 %	28.0 %	25% - 35%	17.8 %	13.5 %	15% - 25%
Fixed income securities	69.3	64.8	60% - 70%	61.7	64.7	60% - 70%
Alternative assets	5.6	6.1	0% - 10%	15.4	15.6	5% - 15%
Cash	1.3	1.1	0% - 5%	5.1	6.2	0% - 5%
Total	100.0 %	100.0 %		100.0 %	100.0 %	

The primary objective of our pension plan assets is to provide a source of retirement income for participants and beneficiaries. Our primary financial objectives for the pension plan assets have been established in conjunction with a comprehensive review of our current and projected financial requirements. These objectives include having the ability to pay all future benefits and expenses when due, maintaining flexibility and minimizing volatility. These objectives are based on a long-term investment horizon.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Defined Benefit Pension Plan Assets Investments in our defined benefit plans are stated at fair value. Level 1 assets are valued using quoted market prices that represent the asset value of the shares held by the trusts. The level 2 assets are investments in pooled funds, which are valued using a model to reflect the valuation of their underlying assets that are publicly traded with observable values. The fair values of our pension plan assets are as follows:

December 31, 2023

Asset Categories	Level 1	Level 2	Level 3	Total
	<i>(in millions)</i>			
Cash and Cash Equivalents	\$ 8.5	\$ 1.3	\$ —	\$ 9.8
Equity				
U.S. Large Cap	37.2	2.2	—	39.4
U.S. Small/Mid Cap	11.5	—	—	11.5
World Equity	36.2	3.0	—	39.2
Fixed Income Securities				
Government & Agencies	60.3	37.6	—	97.9
Corporate Bonds - Investment Grade	150.2	0.9	—	151.1
Corporate Bonds - Non-investment Grade	10.3	0.4	—	10.7
Emerging Market Debt	10.6	—	—	10.6
Other	2.5	1.0	—	3.5
Other				
Property Funds ^(a)	—	—	—	22.6
Other ^(a)	—	—	—	11.8
Total Plan Assets	<u>\$ 327.3</u>	<u>\$ 46.4</u>	<u>\$ —</u>	<u>\$ 408.1</u>

December 31, 2022

Asset Categories	Level 1	Level 2	Level 3	Total
	<i>(in millions)</i>			
Cash and Cash Equivalents	\$ 8.6	\$ 1.8	\$ —	\$ 10.4
Equity				
U.S. Large Cap	40.2	0.1	—	40.3
U.S. Small/Mid Cap	12.8	—	—	12.8
World Equity	40.7	3.4	—	44.1
Fixed Income Securities				
Government & Agencies	57.9	60.0	—	117.9
Corporate Bonds - Investment Grade	123.5	0.5	—	124.0
Corporate Bonds - Non-investment Grade	9.0	0.4	—	9.4
Emerging Market Debt	8.2	—	—	8.2
Other	1.7	2.3	—	4.0
Other				
Property Funds ^(a)	—	—	—	24.9
Other ^(a)	—	—	—	10.9
Total Plan Assets	<u>\$ 302.6</u>	<u>\$ 68.5</u>	<u>\$ —</u>	<u>\$ 406.9</u>

(a) In accordance with ASC 820 - Fair Value Measurement certain investments that are measured at fair value using the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented in the Consolidated Balance Sheets.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

DEFINED CONTRIBUTION PLANS Most of our salaried and hourly U.S. associates, including certain UAW represented associates at our U.S. locations, are eligible to participate in voluntary savings plans. Our maximum match is 50% of eligible associates' contribution up to 10% of their eligible salary. Matching contributions amounted to \$9.4 million in 2023, \$8.6 million in 2022 and \$8.0 million in 2021. Certain U.S. associates are eligible annually to receive an additional AAM Retirement Contribution (ARC) benefit between 3% to 5% of eligible salary, depending on years of service. We made ARC contributions of \$9.9 million, \$9.0 million and \$8.3 million in 2023, 2022 and 2021, respectively.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

8. STOCK-BASED COMPENSATION AND OTHER INCENTIVE COMPENSATION

STOCK-BASED COMPENSATION

At December 31, 2023, we had stock-based awards outstanding under stock compensation plans approved by our stockholders. Under these plans, shares have been authorized for issuance to our directors, officers and certain other associates in the form of unvested restricted stock units, performance shares or other awards that are based on the value of our common stock. Shares available for future grants at December 31, 2023 were 5.4 million. The current stock plan will expire in May 2028.

RESTRICTED STOCK UNITS We have awarded restricted stock units (RSUs). Compensation expense associated with RSUs settled in stock is recorded to paid-in-capital ratably over the three-year vesting period.

The following table summarizes activity relating to our RSUs:

	Number of Shares/Units	Weighted Average Grant Date Fair Value per Share/Unit
	<i>(in millions, except per share data)</i>	
Outstanding at January 1, 2021	4.9	\$ 9.20
Granted	0.9	10.29
Vested	(1.0)	13.65
Canceled	(0.4)	8.40
Outstanding at December 31, 2021	4.4	\$ 8.43
Granted	1.4	8.98
Vested	(0.8)	14.73
Canceled	(0.1)	6.47
Outstanding at December 31, 2022	4.9	\$ 7.66
Granted	1.3	8.36
Vested	(2.6)	5.62
Canceled	(0.2)	9.53
Outstanding at December 31, 2023	3.4	\$ 9.34

As of December 31, 2023, unrecognized compensation cost related to unvested RSUs totaled \$11.2 million. The weighted average period over which this cost is expected to be recognized is approximately two years. In 2023 and 2022, the total fair market value of RSUs vested was \$23.2 million and \$6.0 million, respectively.

PERFORMANCE SHARES As of December 31, 2023, we have performance shares (PS) outstanding under our 2018 Amended and Restated Omnibus Incentive Plan. We grant performance shares payable in stock to officers and certain other associates which vest in full over a three-year performance period.

In 2023, 2022 and 2021, grants to officers were based on AAM's free cash flow in each of the three years of the performance period, as well as the cumulative free cash flow over the same period, adjusted based on a total shareholder return (TSR) measure. The TSR metric compares our TSR over the three-year performance period relative to the TSR of our pre-defined competitor peer group. Additionally, during 2023 and 2022, grants to certain other associates were based on AAM's three-year cumulative free cash flow. Based on these free cash flow and relative TSR performance metrics, the number of performance shares that become exercisable for officers will be between 0% and 230% of the grant date amount and for other associates between 0% and 150% of the grant date amount. Share price appreciation and dividends paid are measured over the performance period to determine TSR. As these awards are settled in stock, the compensation expense is recorded ratably over the vesting period to paid-in-capital.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The following table summarizes activity relating to our performance shares:

	Number of Shares	Weighted Average Grant Date Fair Value per Share
<i>(in millions, except per share data)</i>		
TSR Awards		
Outstanding at January 1, 2021	0.6	\$ 18.86
Granted	—	—
Vested	(0.3)	13.91
Canceled	—	—
Outstanding at December 31, 2021	0.3	\$ 24.36
Granted	—	—
Vested	(0.3)	24.36
Canceled	—	—
Outstanding at December 31, 2022	—	\$ —
Granted	—	—
Vested	—	—
Canceled	—	—
Outstanding at December 31, 2023	—	\$ —
Free Cash Flow Awards		
Outstanding at January 1, 2021	1.2	\$ 7.50
Granted	0.4	11.26
Vested	(0.3)	14.28
Canceled	(0.1)	6.96
Outstanding at December 31, 2021	1.2	\$ 6.96
Granted	0.5	9.83
Vested	—	—
Canceled	(0.1)	9.26
Outstanding at December 31, 2022	1.6	\$ 7.81
Granted	0.6	9.19
Vested	(0.9)	5.93
Canceled	(0.1)	10.20
Outstanding at December 31, 2023	1.2	\$ 9.80

We estimate the fair value of our free cash flow performance shares on the date of grant using our estimated three-year cumulative free cash flow, based on AAM's budget and long-range plan assumptions at the time, and adjust quarterly as necessary. We estimate the fair value of our TSR metric on the date of grant using the Monte Carlo simulation approach. The Monte Carlo simulation approach utilizes inputs on volatility assumptions, risk free rates, the price of the Company's and our competitor peer group's common stock and their correlation as of each valuation date. Volatility assumptions are based on historical and implied volatility measurements.

Based on the current fair value, the estimated unrecognized compensation cost related to unvested PS totaled \$5.4 million, as of December 31, 2023. The weighted-average period over which this cost is expected to be recognized is approximately two years.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

OTHER INCENTIVE COMPENSATION

LONG-TERM CASH AWARDS As of December 31, 2023, we have long-term cash awards (LTCAs) outstanding under our 2018 Amended and Restated Omnibus Incentive Plan. The \$5.2 million, \$4.6 million and \$7.8 million of LTCAs granted during 2023, 2022 and 2021 respectively, are payable in cash to certain associates which vest in full over a three-year period. Compensation expense associated with LTCAs paid in cash is recorded ratably over the three-year vesting period. As of December 31, 2023, unrecognized compensation cost related to unvested LTCAs totaled \$5.2 million. The weighted average period over which this cost is expected to be recognized is approximately two years.

PERFORMANCE UNITS As of December 31, 2023, we have performance units (PUs) outstanding under our 2018 Amended and Restated Omnibus Incentive Plan. We grant PUs payable in cash to officers and certain other associates which vest in full over a three-year performance period and are based primarily on AAM's three-year cumulative free cash flow. The \$12.8 million, \$11.1 million and \$11.7 million of PUs granted during 2023, 2022 and 2021, respectively, are payable for officers between 0% and 230% of the grant date amount, inclusive of the potential impact of the TSR metric, and for other associates between 0% and 150% of the grant date amount, using our cumulative free cash flow performance metric. Based on the current fair value, the estimated unrecognized compensation cost related to unvested PUs totaled \$11.3 million, as of December 31, 2023. The weighted-average period over which this cost is expected to be recognized is approximately two years.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

9. INCOME TAXES

The components of income (loss) before income taxes are as follows:

	<u>2023</u>	<u>2022</u>	<u>2021</u>
	<i>(in millions)</i>		
U.S. loss	\$ (212.5)	\$ (57.0)	\$ (186.8)
Non - U.S. income	188.0	123.3	188.0
Total income (loss) before income taxes	<u>\$ (24.5)</u>	<u>\$ 66.3</u>	<u>\$ 1.2</u>

The following is a summary of the components of our provision for income taxes:

	<u>2023</u>	<u>2022</u>	<u>2021</u>
	<i>(in millions)</i>		
Current			
Federal	\$ 8.5	\$ 11.7	\$ 3.5
State and local	0.9	1.3	0.3
Foreign	38.0	21.8	34.0
Total current	<u>\$ 47.4</u>	<u>\$ 34.8</u>	<u>\$ 37.8</u>
Deferred			
Federal	\$ (38.5)	\$ (23.2)	\$ (40.7)
State and local	(0.5)	0.1	(0.9)
Foreign	0.7	(9.7)	(0.9)
Total deferred	<u>(38.3)</u>	<u>(32.8)</u>	<u>(42.5)</u>
Total income tax expense (benefit)	<u>\$ 9.1</u>	<u>\$ 2.0</u>	<u>\$ (4.7)</u>

The following is a reconciliation of income taxes calculated at the U.S. federal statutory income tax rate of 21% in 2023, 2022 and 2021 to our provision for income taxes:

	<u>2023</u>	<u>2022</u>	<u>2021</u>
	<i>(in millions)</i>		
Federal statutory	\$ (5.1)	\$ 13.9	\$ 0.3
Foreign income taxes	(14.9)	(14.7)	(14.0)
Change in enacted tax rate	0.2	—	0.1
State and local	(7.5)	2.4	3.0
Tax credits	(14.2)	(9.6)	(11.0)
Valuation allowance	45.0	9.5	2.7
Withholding taxes	7.3	4.4	3.2
U.S. tax on unremitted foreign earnings	0.5	1.6	2.2
Tax benefit on loss carryback	—	—	(5.2)
Global intangible low-taxed income (GILTI)	15.3	6.4	6.5
Foreign derived intangible income deduction	(0.1)	(13.9)	—
Uncertain tax positions	1.3	3.8	1.2
Reorganization and restructuring actions	(26.1)	—	—
Other	7.4	(1.8)	6.3
Effective income tax expense (benefit)	<u>\$ 9.1</u>	<u>\$ 2.0</u>	<u>\$ (4.7)</u>

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

In 2023, our effective income tax rate varied from the U.S. federal statutory rate primarily as a result of approximately \$36.1 million attributable to both increased valuation allowances on disallowed interest expense in the United States, as well as net income tax expense resulting from various changes in determinations related to the potential realization of deferred tax assets and the resulting establishment of, and release of, valuation allowances in certain foreign jurisdictions. These income tax expenses were partially offset by a net income tax benefit of approximately \$26.1 million resulting from various internal reorganization and restructuring actions during the year, which in turn was partially offset by the associated impact on our foreign derived intangible income and disallowed interest deductions in the U.S., as well as the impact of favorable foreign tax rates and tax credits.

In 2022, our effective income tax rate varied from the U.S. federal statutory rate primarily as a result of recognizing a net income tax benefit of approximately \$7.5 million due to changes in our determination related to the potential realization of deferred tax assets and the resulting release of a valuation allowance in a foreign jurisdiction, as well as the benefit from foreign derived intangible income deductions in the U.S. In addition, our effective tax rate varies from the U.S. federal statutory rate as a result of the \$13.6 million gain on bargain purchase of Tekfor, which was not subject to income tax.

In 2021, our effective income tax rate varied from the U.S. federal statutory rate primarily as a result of recognizing a net income tax benefit of approximately \$5.2 million related to our ability to carry back prior year losses to tax years with the higher 35% corporate income tax rate.

As of December 31, 2023, we have refundable income taxes of approximately \$31.8 million, \$20.0 million of which is classified as Prepaid expenses and other and \$11.8 million classified as Other assets and deferred charges on our Consolidated Balance Sheet, as compared to approximately \$17.1 million classified as Prepaid expenses and other and \$1.7 million classified as Other assets and deferred charges as of December 31, 2022. We also have income taxes payable of approximately \$10.6 million and \$7.5 million classified as Accrued expenses and other on our Consolidated Balance Sheets as of December 31, 2023 and 2022, respectively.

The approximate tax effect of each significant type of temporary difference and carryforward that results in a deferred tax asset or liability is as follows:

	December 31,	
	2023	2022
	<i>(in millions)</i>	
Deferred tax assets		
Employee benefits	\$ 112.1	\$ 109.0
Inventory	39.3	38.9
Net operating loss (NOL) carryforwards	173.1	203.7
Tax credit carryforwards	36.6	64.5
Capital allowance carryforwards	12.9	11.5
Capitalized expenditures	86.1	63.1
Interest carryforward	87.0	42.4
Operating lease liabilities	27.5	24.4
Other	71.3	33.3
Valuation allowances	(267.1)	(217.5)
Deferred tax assets	\$ 378.8	\$ 373.3
Deferred tax liabilities		
Other intangible assets	\$ (127.4)	\$ (136.8)
Fixed assets	(48.1)	(88.7)
Operating lease right-of-use assets	(27.1)	(24.2)
Other	(23.3)	(15.3)
Deferred tax liabilities	\$ (225.9)	\$ (265.0)
Deferred tax assets, net	\$ 152.9	\$ 108.3

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Deferred tax assets and liabilities recognized in our Consolidated Balance Sheets are as follows:

	December 31,	
	2023	2022
	<i>(in millions)</i>	
U.S. federal and state deferred tax asset, net	\$ 88.2	\$ 47.6
Other foreign deferred tax asset, net	64.7	60.7
Deferred tax asset, net	\$ 152.9	\$ 108.3

DEFERRED INCOME TAX ASSETS AND LIABILITIES AND VALUATION ALLOWANCES The deferred income tax assets and liabilities summarized above reflect the impact of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the basis of such assets and liabilities for income tax purposes. ASC 740 - *Income Taxes* states that companies must measure deferred tax amounts at the rate at which they are expected to be realized.

As of December 31, 2023 and December 31, 2022, we had deferred tax assets from domestic and foreign net operating loss and tax credit carryforwards of \$222.6 million and \$279.7 million, respectively. Approximately \$110.8 million of the deferred tax assets at December 31, 2023 relate to NOL and tax credits that can be carried forward indefinitely with the remainder expiring between 2024 and 2043.

Accounting guidance for income taxes requires a deferred tax liability to be established for the U.S. tax impact of undistributed earnings of foreign subsidiaries unless it can be shown that these earnings will be permanently reinvested outside the U.S. The undistributed earnings of our foreign subsidiaries will generally not be taxed upon repatriation to the U.S. as these earnings will be treated as previously taxed income from either the one-time transition tax or GILTI, or they will be offset with a full dividends received deduction. We have provided deferred income taxes for the estimated foreign income tax and applicable withholding taxes on earnings of subsidiaries expected to be distributed.

In accordance with the accounting guidance for income taxes, we review the likelihood that we will realize the benefit of deferred tax assets and estimate whether recoverability of our deferred tax assets is “more likely than not,” based on forecasts of taxable income in the related tax jurisdictions. In determining the requirement for a valuation allowance, the historical results, projected future operating results based upon approved business plans, eligible carry forward periods, and tax planning opportunities are considered, along with other relevant positive and negative evidence. If, based upon available evidence, it is more likely than not the deferred tax assets will not be realized, a valuation allowance is recorded. During 2021, we increased the valuation allowance related to certain U.S. federal income tax attributes to approximately \$7.0 million. During 2022 and 2023, we recorded a full valuation allowance against the deferred tax asset established for the current year estimated increase in disallowed interest expense deductions in the U.S., resulting in an increase in tax expense of approximately \$15.7 million and \$31.0 million, respectively.

Further, due to the uncertainty associated with the extent and ultimate impact of the significant supply chain constraints affecting the automotive industry, as well as the potential impact of geopolitical conflicts or events and macroeconomic factors, including sustained or increased inflation, we may experience lower than projected earnings in certain jurisdictions in future periods and, as a result, it is reasonably possible that changes in valuation allowances could be recognized in future periods and such changes could be material to our financial statements.

During 2023, 2022 and 2021, we recorded a net tax expense of \$8.9 million, \$0.6 million and \$0.8 million, respectively, resulting from net losses in certain jurisdictions with no corresponding tax benefit due to increases in our valuation allowance. These income tax expenses were increased in 2023, 2022 and 2021 by a net tax expense of \$36.1 million, \$8.9 million, and \$1.9 million, respectively, resulting from changes in determinations relating to the potential realization of deferred tax assets and the resulting establishment of, or release of, valuation allowances, as well as the increase in valuation allowances related to the disallowed U.S. interest expense deductions.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

On June 1, 2022, our acquisition of Tekfor became effective and we recorded a valuation allowance against certain U.S. and foreign deferred tax assets of \$7.8 million as of June 1, 2022 associated with the acquired entities.

As of December 31, 2023 and December 31, 2022, we have a valuation allowance of \$267.1 million and \$217.5 million, respectively, related to net deferred tax assets in several foreign jurisdictions and U.S. federal, state and local jurisdictions.

UNRECOGNIZED INCOME TAX BENEFITS To the extent that we have uncertain tax positions, a determination is made as to whether such positions meet the "more likely than not" threshold. This threshold must be met in order to record any tax benefit and, to the extent that an uncertain tax position meets the "more likely than not" threshold, we have measured and recorded the highest probable benefit, and have established appropriate reserves for benefits that exceed the amount likely to be sustained upon examination.

A reconciliation of the beginning and ending amounts of unrecognized income tax benefits is as follows:

	Unrecognized Income Tax Benefits	Interest and Penalties
	<i>(in millions)</i>	
Balance at January 1, 2021	\$ 20.2	\$ 2.0
Increase in prior year tax positions	—	—
Decrease in prior year tax positions	(1.0)	(0.1)
Increase in current year tax positions	2.0	0.3
Foreign currency remeasurement adjustment	—	—
Balance at December 31, 2021	\$ 21.2	\$ 2.2
Increase in prior year tax positions	3.6	1.1
Decrease in prior year tax positions	(0.8)	—
Increase in current year tax positions	0.5	—
Tekfor acquisition	12.6	—
Foreign currency remeasurement adjustment	0.1	—
Balance at December 31, 2022	\$ 37.2	\$ 3.3
Increase in prior year tax positions	1.7	0.5
Decrease in prior year tax positions	(9.3)	(0.6)
Increase in current year tax positions	11.8	—
Settlement	(6.9)	(0.3)
Foreign currency remeasurement adjustment	0.7	—
Balance at December 31, 2023	<u>\$ 35.2</u>	<u>\$ 2.9</u>

At December 31, 2023 and December 31, 2022, we had \$35.2 million and \$37.2 million of gross unrecognized income tax benefits, respectively. In 2023, we reduced our liability for unrecognized income tax benefits and related interest and penalties as a result of a change in estimate on previously recorded unrecognized tax benefits in certain jurisdictions. On June 1, 2022, our acquisition of Tekfor became effective and we recorded a liability for unrecognized income tax benefits of \$12.6 million as of June 1, 2022 associated with the acquired entities.

In 2023, 2022, and 2021, we recognized a tax expense/(benefit) of \$(0.1) million, \$1.1 million and \$0.2 million, respectively, related to interest and penalties in Income tax expense (benefit) on our Consolidated Statements of Operations. We have a liability of \$2.9 million and \$3.3 million related to the estimated future payment of interest and penalties at December 31, 2023 and 2022, respectively. The amount of the unrecognized income tax benefits, including interest and penalties, as of December 31, 2023 that, if recognized, would affect the effective tax rate is \$33.8 million.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

We operate in multiple jurisdictions throughout the world and the income tax returns of several subsidiaries in various tax jurisdictions are currently under examination. We are currently under a U.S. federal income tax examination for years 2015 through 2020. Generally, we are no longer subject to U.S. federal, state and local, or non-U.S. income tax examinations by tax authorities prior to 2015. Based on the status of ongoing tax audits and the protocol of finalizing audits by the relevant tax authorities, it is not possible to estimate the impact of changes, if any, to previously recorded uncertain tax positions. Negative or unexpected outcomes of tax examinations and audits, and any related litigation, could have a material adverse impact on our results of operations, financial condition and cash flows. We will continue to monitor the progress and conclusions of all ongoing audits and other communications with tax authorities and will adjust our estimated liability as necessary.

Other Income Tax Matters

Pending Tax Litigation

During their examination of our 2015 U.S. federal income tax return, the Internal Revenue Service (IRS) asserted that income earned by a Luxembourg subsidiary from its Mexican branch operations should be categorized as foreign base company sales income (FBCSI) under Section 954(d) of the Internal Revenue Code and recognized currently as taxable income on our 2015 U.S. federal income tax return. As a result of this assertion, the IRS issued a Notice of Proposed Adjustment (NOPA). AAM disagreed with the NOPA, believes that the proposed adjustment is without merit and contested the matter through the IRS's administrative appeals process. No resolution was reached in the appeals process and, in September 2022, the IRS issued a Notice of Deficiency. The IRS subsequently issued a Notice of Tax Due in December 2022 and AAM paid the assessed tax and interest of \$10.1 million in January 2023. We filed a claim for refund for the amount of tax and interest paid related to this matter for the 2015 tax year and, in December 2023, we filed suit in the U.S. Court of Federal Claims.

We believe, after consultation with tax and legal counsel, that it is more likely than not that our structure did not give rise to FBCSI, and it's likely that we will be successful in ultimately defending our position. As such, we have not recorded any impact of the IRS's proposed adjustment in our consolidated financial statements as of, and for the year ended, December 31, 2023, with the exception of the cash payment and associated income tax receivable of \$10.1 million paid by AAM to the IRS in 2023. As of December 31, 2023, in the event AAM is not successful in defending its position, the potential additional income tax expense, including estimated interest charges, related to tax years 2015 through 2023, is estimated to be in the range of approximately \$300 million to \$350 million.

Reorganization of Global Operating Structure

As a result of changes to non-U.S. corporate tax laws, we performed a review, in consultation with our tax and legal advisors, of AAM's global operating structure in 2023. This involved a detailed analysis of the impact of legislation enacted or proposed by non-U.S. members of the OECD and G20 to implement pillar two of the Framework, as well as other recent global tax law developments, and the expected interaction of these developments with U.S. tax law. Based upon this analysis, AAM implemented certain actions to reorganize our global operating structure effective as of December 31, 2023. The review of our global operating structure was not related to the FBCSI income tax matter described above, however, this reorganization has also eliminated the FBCSI U.S. issue for tax years after 2023.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

10. EARNINGS (LOSS) PER SHARE (EPS)

We present EPS using the two-class method. This method allocates undistributed earnings between common shares and non-vested share based payment awards that entitle the holder to non-forfeitable dividend rights. Our participating securities are our non-vested restricted stock units.

The following table sets forth the computation of our basic and diluted EPS available to shareholders of common stock (excluding participating securities):

	<u>2023</u>	<u>2022</u>	<u>2021</u>
	<i>(in millions, except per share data)</i>		
Numerator			
Net income (loss)	\$ (33.6)	\$ 64.3	\$ 5.9
Less: Net income allocated to participating securities	—	(2.7)	(0.2)
Net income (loss) attributable to common shareholders - Basic and Dilutive ..	<u>\$ (33.6)</u>	<u>\$ 61.6</u>	<u>\$ 5.7</u>
Denominators			
Basic common shares outstanding -			
Weighted-average shares outstanding	120.3	119.4	118.5
Less: Weighted-average participating securities	(3.7)	(4.9)	(4.6)
Weighted-average common shares outstanding	<u>116.6</u>	<u>114.5</u>	<u>113.9</u>
Effect of dilutive securities -			
Dilutive stock-based compensation	—	1.0	0.2
Diluted shares outstanding -			
Adjusted weighted-average shares after assumed conversions	<u>116.6</u>	<u>115.5</u>	<u>114.1</u>
Basic EPS	<u>\$ (0.29)</u>	<u>\$ 0.54</u>	<u>\$ 0.05</u>
Diluted EPS	<u>\$ (0.29)</u>	<u>\$ 0.53</u>	<u>\$ 0.05</u>

Basic and diluted loss per share are the same in 2023 because the effect of potentially dilutive stock-based compensation would have been antidilutive. Excluded potentially dilutive shares were 0.3 million in 2023.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

11. COMMITMENTS AND CONTINGENCIES

PURCHASE COMMITMENTS Obligated purchase commitments for capital expenditures and related project expenses were approximately \$137.8 million at December 31, 2023 and \$110.7 million at December 31, 2022. Of the approximately \$137.8 million of purchase commitments at December 31, 2023, \$124.0 million is expected to be paid in 2024 and \$13.8 million is expected to be paid in 2025 and thereafter.

LEGAL PROCEEDINGS We are involved in, or potentially subject to, various legal proceedings or claims incidental to our business. These include, but are not limited to, matters arising out of product warranties, contractual matters, and environmental obligations. Although the outcome of these matters cannot be predicted with certainty, at this time we do not believe that any of these matters, individually or in the aggregate, will have a material adverse effect on our financial condition, results of operations or cash flows.

We file U.S. federal, state and local income tax returns, as well as foreign income tax returns in jurisdictions throughout the world. We are also subject to examinations of these tax returns by the relevant tax authorities. Negative or unexpected outcomes of these examinations and audits, and any related litigation, could have a material adverse impact on our results of operations, financial condition and cash flows. See Note 9 - Income Taxes for additional discussion regarding examinations and audits of our tax returns and pending litigation.

We are subject to various federal, state, local and foreign environmental and occupational safety and health laws, regulations and ordinances, including those regulating air emissions, water discharge, waste management and environmental cleanup. We will continue to closely monitor our environmental conditions to ensure that we are in compliance with all laws, regulations and ordinances. We have made, and anticipate continuing to make, capital and other expenditures (including recurring administrative costs) to comply with environmental requirements at our current and former facilities. Such expenditures were not significant in 2023, 2022 and 2021.

ENVIRONMENTAL OBLIGATIONS Due to the nature of our manufacturing operations, we have legal obligations to perform asset retirement activities pursuant to federal, state, and local requirements at our current and former facilities. The process of estimating environmental liabilities is complex. Significant uncertainty may exist related to the timing and method of the settlement of these obligations. Therefore, these liabilities are not reasonably estimable until a triggering event occurs that allows us to estimate a range and assess the probabilities of potential settlement dates and the potential methods of settlement. In the future, we will update our estimated costs and potential settlement dates and methods and their associated probabilities based on available information. Any update may change our estimate and could result in a material adjustment to this liability.

PRODUCT WARRANTIES We record a liability for estimated warranty obligations at the dates our products are sold. These estimates are established using sales volumes and internal and external warranty data where there is no payment history and historical information about the average cost of warranty claims for customers with prior claims. We estimate our costs based on the contractual arrangements with our customers, existing customer warranty terms and internal and external warranty data, which includes a determination of our warranty claims and actions taken to improve product quality and minimize warranty claims. We continuously evaluate these estimates and our customers' administration of their warranty programs. We monitor actual warranty claim data and adjust the liability, as necessary, on a quarterly basis.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

During 2023 and 2022, we also made adjustments to our warranty accrual to reflect revised estimates regarding our projected future warranty obligations. The following table provides a reconciliation of changes in the product warranty liability:

	December 31,	
	2023	2022
	<i>(in millions)</i>	
Beginning balance	\$ 54.1	\$ 59.5
Accruals	26.4	14.1
Settlements	(11.4)	(10.8)
Adjustments to prior period accruals	(3.1)	(7.9)
Foreign currency translation	0.3	(0.8)
Ending balance	\$ 66.3	\$ 54.1

In 2023, we recorded \$7 million of expense related to a field action with one of our largest customers for a die cast component included in transmission assemblies. We reached agreement on this field action with our customer in the fourth quarter of 2023 and we do not expect to record any additional liabilities associated with this item.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

12. RECLASSIFICATIONS OUT OF ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS)

Reclassification adjustments and other activity impacting accumulated other comprehensive income (loss) (AOCI) during the years ended December 31, 2023, December 31, 2022 and December 31, 2021 are as follows (in millions):

	Defined Benefit Plans	Foreign Currency Translation Adjustments	Unrecognized Gain (Loss) on Cash Flow Hedges	Total
Balance at January 1, 2021	\$ (311.0)	\$ (101.1)	\$ (20.1)	\$ (432.2)
Other comprehensive income (loss) before reclassifications	33.9	(10.7)	22.2	45.4
Income tax effect of other comprehensive income (loss) before reclassifications	(7.0)	—	(4.8)	(11.8)
Amounts reclassified from accumulated other comprehensive loss into net income	53.4 (a)	0.5	(9.8) (b)	44.1
Income taxes reclassified into net income	(11.2)	—	0.9	(10.3)
Net current period other comprehensive income (loss)	69.1	(10.2)	8.5	67.4
Balance at December 31, 2021	<u>\$ (241.9)</u>	<u>\$ (111.3)</u>	<u>\$ (11.6)</u>	<u>\$ (364.8)</u>
Other comprehensive income (loss) before reclassifications	119.5	(38.4)	62.2	143.3
Income tax effect of other comprehensive income (loss) before reclassifications	(30.2)	—	(9.9)	(40.1)
Amounts reclassified from accumulated other comprehensive loss into net income	7.3 (a)	—	(22.9) (b)	(15.6)
Income taxes reclassified into net income	(1.6)	—	3.4	1.8
Net current period other comprehensive income (loss)	95.0	(38.4)	32.8	89.4
Balance at December 31, 2022	<u>\$ (146.9)</u>	<u>\$ (149.7)</u>	<u>\$ 21.2</u>	<u>\$ (275.4)</u>
Other comprehensive income before reclassifications	5.5	7.4	18.5	31.4
Income tax effect of other comprehensive income before reclassifications	(1.8)	—	2.4	0.6
Amounts reclassified from accumulated other comprehensive income (loss) into net loss	(3.5) (a)	—	(16.9) (b)	(20.4)
Income taxes reclassified into net loss	1.4	—	(0.5)	0.9
Net current period other comprehensive income	1.6	7.4	3.5	12.5
Balance at December 31, 2023	<u>\$ (145.3)</u>	<u>\$ (142.3)</u>	<u>\$ 24.7</u>	<u>\$ (262.9)</u>

(a) The amount reclassified for 2021 includes a credit to AOCI of \$42.3 million related to the effect of the Pension Annuity Purchase. See Note 7 - Employee Benefit Plans for more detail.

(b) The amounts reclassified from AOCI included \$(19.9) million in COGS, \$(3.6) million in interest expense and \$6.6 million in other income (expense), net for the year ended December 31, 2023, \$(6.5) million in COGS, \$(2.7) million in interest expense and \$(13.7) million in other income (expense), net for the year ended December 31, 2022 and \$(5.6) million in COGS, \$14.8 million in interest expense and \$(19.0) million in other income (expense), net for the year ended December 31, 2021.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

13. REVENUE FROM CONTRACTS WITH CUSTOMERS

The guidance in ASC 606 - *Revenue from Contracts with Customers* is based on the principle that an entity should recognize revenue to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. We are obligated under our contracts with customers to manufacture and supply products for use in our customers' operations. We satisfy these performance obligations at the point in time that the customer obtains control of the products, which is the point in time that the customer is able to direct the use of, and obtain substantially all of the remaining benefits from, the products. This typically occurs upon shipment to the customer in accordance with purchase orders and delivery releases issued by our customers. There is judgment involved in determining when the customer obtains control of the products and we have utilized the following indicators of control in our assessment:

- We have the present right to payment for the asset;
- The customer has legal title to the asset;
- We have transferred physical possession of the asset;
- The customer has the significant risks and rewards of ownership of the asset; and
- The customer has accepted the asset.

Our product offerings by segment are as follows:

- Driveline products consist primarily of front and rear axles, driveshafts, differential assemblies, clutch modules, balance shaft systems, disconnecting driveline technology, and electric and hybrid driveline products and systems for light trucks, sport utility vehicles (SUVs), crossover vehicles (CUVs), passenger cars and commercial vehicles; and
- Metal Forming products consist primarily of engine, transmission, driveline and safety-critical components for traditional internal combustion engine and electric vehicle architectures including light vehicles, commercial vehicles and off-highway vehicles, as well as products for industrial markets.

Our contracts with customers, which are comprised of purchase orders and delivery releases issued by our customers, generally state the terms of the sale, including the quantity and price of each product purchased. Trade accounts receivable from our customers are generally due approximately 50 days from the date our customers receive our product. Our contracts typically do not contain variable consideration as the contracts include stated prices. We provide our customers with assurance type warranties, which are not separate performance obligations and are outside the scope of ASC 606. Refer to Note 11 - Commitments and Contingencies for further information on our product warranties.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Disaggregation of Net Sales

Net sales recognized from contracts with customers, disaggregated by segment and geographical location, are presented in the following table for the years ended December 31, 2023, 2022 and 2021. Net sales are attributed to regions based on the location of production. Intersegment sales have been excluded from the table.

	Twelve Months Ended December 31, 2023		
	Driveline	Metal Forming	Total
	<i>(in millions)</i>		
North America	\$ 3,133.8	\$ 1,303.2	\$ 4,437.0
Asia	506.4	38.3	544.7
Europe	441.2	472.2	913.4
South America	95.1	89.3	184.4
Total	<u>\$ 4,176.5</u>	<u>\$ 1,903.0</u>	<u>\$ 6,079.5</u>

	Twelve Months Ended December 31, 2022		
	Driveline	Metal Forming	Total
North America	\$ 3,139.8	\$ 1,301.4	\$ 4,441.2
Asia	449.8	43.5	493.3
Europe	391.6	338.9	730.5
South America	82.3	55.1	137.4
Total	<u>\$ 4,063.5</u>	<u>\$ 1,738.9</u>	<u>\$ 5,802.4</u>

	Twelve Months Ended December 31, 2021		
	Driveline	Metal Forming	Total
North America	\$ 2,793.4	\$ 1,189.0	\$ 3,982.4
Asia	441.6	47.4	489.0
Europe	374.8	216.1	590.9
South America	85.3	9.0	94.3
Total	<u>\$ 3,695.1</u>	<u>\$ 1,461.5</u>	<u>\$ 5,156.6</u>

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Contract Assets and Liabilities

The following table summarizes our beginning and ending balances for accounts receivable and contract liabilities associated with our contracts with customers (*in millions*):

	Accounts Receivable, Net	Contract Liabilities (Current)	Contract Liabilities (Long-term)
December 31, 2022	\$ 820.2	\$ 28.1	\$ 73.4
December 31, 2023	818.5	16.6	70.4
Increase/(decrease)	\$ (1.7)	\$ (11.5)	\$ (3.0)

Contract liabilities relate to deferred revenue associated with various settlements and commercial agreements for which we have future performance obligations to the customer. We recognize this deferred revenue into revenue over the life of the associated program as we satisfy our performance obligations to the customer. We do not have contract assets as defined in ASC 606.

During the twelve months ended December 31, 2023 and December 31, 2022 we amortized \$30.2 million and \$31.3 million, respectively, of previously recorded contract liabilities into revenue as we satisfied performance obligations with our customers.

Sales and Other Taxes

ASC 606 provides a practical expedient that allows companies to exclude from the transaction price any amounts collected from customers for all sales (and other similar) taxes. We do not include sales and other taxes in our transaction price and thus do not recognize these amounts as revenue.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

14. LEASING

When an agreement grants us the right to substantially all of the economic benefits associated with an identified asset, and we are able to direct the use of that asset throughout the term of the agreement, we have a lease. We lease certain facilities, manufacturing machinery and equipment under finance leases, and we also lease certain commercial office and production facilities, manufacturing machinery and equipment, vehicles and other assets under operating leases. Some of our leases include options to extend or terminate the leases and these options have been included in the relevant lease term to the extent that they are reasonably certain to be exercised.

The lease consideration for some of our facilities and machinery and equipment is variable, as it is based on various indices or usage of the underlying assets, respectively. Variable lease payments based on indices have been included in the related right-of-use assets and lease liabilities on our Consolidated Balance Sheets, while variable lease payments based on usage of the underlying asset have been excluded as they do not represent present rights or obligations.

Lease cost consists of the following:

	Twelve Months Ended		
	December 31,		
	2023	2022	2021
	<i>(in millions)</i>		
Finance lease cost			
Amortization of right-of-use assets	\$ 12.3	\$ 9.9	\$ 4.2
Interest on lease liabilities	5.1	4.7	2.0
Total finance lease cost	<u>17.4</u>	<u>14.6</u>	<u>6.2</u>
Operating lease cost	30.9	32.6	33.3
Short-term lease cost	2.1	1.4	1.6
Variable lease cost	5.8	5.6	3.2
Total lease cost	<u>\$ 56.2</u>	<u>\$ 54.2</u>	<u>\$ 44.3</u>

For the year ended December 31, 2023, \$33.4 million and \$5.4 million were recorded to Cost of goods sold (COGS) and Selling, general and administrative expenses (SG&A), respectively, related to our operating leases, on our Consolidated Statements of Operations, as compared to \$31.8 million and \$7.8 million, respectively, for the year ended December 31, 2022 and \$29.1 million and \$9.0 million, respectively, for the year ended December 31, 2021.

The following table summarizes additional information related to our lease agreements.

	Twelve Months Ended		
	December 31,		
	2023	2022	2021
	<i>(in millions, except lease term and rate)</i>		
Cash paid for amounts included in measurement of lease liabilities			
Operating cash flows from finance leases	\$ 5.1	\$ 4.7	\$ 2.0
Operating cash flows from operating leases	36.1	37.6	35.9
Financing cash flows from finance leases	13.7	11.2	5.0
Weighted-average remaining lease term - finance leases	12.7 years	13.1 years	16.4 years
Weighted-average remaining lease term - operating leases	7.9 years	8.4 years	8.6 years
Weighted-average discount rate - finance leases	5.0 %	4.9 %	4.8 %
Weighted-average discount rate - operating leases	6.4 %	5.4 %	5.2 %

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

As the rate implicit in the lease is typically unknown, the discount rate used to determine the lease liability for the majority of our leases is the collateralized incremental borrowing rate in the applicable geographic area for a similar term and amount as the lease agreement.

Future undiscounted minimum payments under non-cancelable leases are as follows:

	<u>Finance Leases</u>	<u>Operating Leases</u>
	<i>(in millions)</i>	
2024	\$ 15.8	\$ 28.7
2025	12.9	24.1
2026	11.5	17.7
2027	9.6	13.6
2028	8.3	10.6
Thereafter	73.2	54.4
Total future undiscounted minimum lease payments	<u>131.3</u>	<u>149.1</u>
Less: Impact of discounting	(32.8)	(31.7)
Total	<u>\$ 98.5</u>	<u>\$ 117.4</u>

The right-of-use assets and lease liabilities recorded on our Consolidated Balance Sheets are as follows:

	<u>December 31, 2023</u>		<u>December 31, 2022</u>	
	<u>Finance Leases</u>	<u>Operating Leases</u>	<u>Finance Leases</u>	<u>Operating Leases</u>
	<i>(in millions)</i>		<i>(in millions)</i>	
Property, plant and equipment, net	\$ 102.4	\$ —	\$ 106.2	\$ —
Operating lease right-of-use assets	—	115.6	—	107.2
Total	<u>\$ 102.4</u>	<u>\$ 115.6</u>	<u>\$ 106.2</u>	<u>\$ 107.2</u>
Current portion of operating lease liabilities	\$ —	\$ 21.9	\$ —	\$ 21.1
Accrued expenses and other	11.2	—	13.0	—
Long-term portion of operating lease liabilities	—	95.5	—	87.2
Postretirement benefits and other long-term liabilities	87.3	—	92.4	—
Total	<u>\$ 98.5</u>	<u>\$ 117.4</u>	<u>\$ 105.4</u>	<u>\$ 108.3</u>

Leases Not Yet Commenced

As of December 31, 2023, we have not entered into any additional leases that have not yet commenced that we consider material.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

15. MANUFACTURING FACILITY FIRE AND INSURANCE RECOVERY

On September 22, 2020, a significant industrial fire occurred at our Malvern Manufacturing Facility in Ohio (Malvern Fire). All associates were evacuated safely and without injury and we were able to maintain continuity of supply to our customers without any significant disruptions. In the fourth quarter of 2022, we finalized the claim with our insurance providers. In January 2023, we collected the final \$24.0 million associated with this claim, of which \$7.0 million has been presented as an operating cash inflow and \$17.0 million has been presented as an investing cash inflow in our Consolidated Statement of Cash Flows for the year ended December 31, 2023. There was no impact on our Consolidated Statement of Operations for the year ended December 31, 2023. The amounts detailed in this footnote represent the final claim eligible expenses and recoveries associated with the Malvern Fire.

Since the date of the Malvern Fire and the establishment of the insurance claim, we incurred \$55.1 million of total charges primarily related to site services and clean-up, transportation and freight, asset repairs and other costs incurred to resume or relocate operations and ensure continuity of supply to our customers. In addition, we recorded a total of \$27.0 million of costs primarily associated with the write-down of PP&E as a result of damage from the fire. We recorded total insurance recoveries and received total reimbursements under our insurance policies of \$123.3 million, of which \$11.1 million was received in 2020, \$59.1 million was received in 2021, \$29.1 million was received in 2022 and \$24.0 million was received in 2023.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

16. ACQUISITIONS AND DISPOSITIONS

Acquisition of Tekfor Group

On June 1, 2022, our acquisition of Tekfor Group became effective and we paid a total purchase price of \$94.4 million, which was funded entirely with cash on hand. Tekfor Group manufactures high-performance components, modules and fasteners, including traditional powertrain and driveline components (for both internal combustion and hybrid applications), and e-mobility components. Our acquisition of Tekfor contributes to diversifying our geographic and customer sales mix, while also increasing our electrification product portfolio.

The acquisition of Tekfor Group was accounted for under the acquisition method under ASC 805 - *Business Combinations* with the purchase price allocated to the identifiable assets and liabilities of the acquired company based on the respective fair values of the assets and liabilities.

The following represents the fair values of the assets acquired and liabilities assumed resulting from the acquisition (*in millions*):

	December 31, 2022
Total consideration transferred	\$ 94.4
Cash and cash equivalents	\$ 14.3
Accounts receivable	33.7
Inventories	46.3
Prepaid expenses and other long-term assets	30.1
Deferred income tax assets	5.0
Property, plant and equipment	105.5
Total assets acquired	\$ 234.9
Accounts payable	33.5
Accrued expenses and other	28.1
Debt	23.4
Postretirement benefits and other long-term liabilities	41.9
Net assets acquired	\$ 108.0
Gain on bargain purchase of business	\$ 13.6

The gain on bargain purchase of business was primarily the result of macroeconomic factors at the time of acquisition such as the supply chain disruptions that have impacted the automotive industry, including the conflict between Russia and Ukraine, the semiconductor supply shortage, and increasing input costs, including materials, freight and utilities.

We finalized the valuation of the assets and liabilities of Tekfor in the first quarter of 2023 as we concluded the customary post-closing reviews associated with the acquisition. There were no adjustments to the purchase price allocation in the year ended December 31, 2023.

Included in net sales and net loss for the year ended December 31, 2023 was approximately \$397.2 million and a loss of approximately \$19.8 million, respectively, attributable to Tekfor. Included in net sales and net income for the period from the acquisition effective date on June 1, 2022 through December 31, 2022 was \$204.0 million and a net loss of \$5.1 million, respectively, attributable to Tekfor Group. The 2022 net loss attributable to Tekfor includes a one-time expense of approximately \$4.0 million, net of tax, for the step-up of inventory to fair value.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Unaudited Pro Forma Financial Information

Unaudited pro forma net sales for AAM, on a combined basis with Tekfor Group for the years ended December 31, 2022 and December 31, 2021, were \$5.95 billion and \$5.50 billion, respectively, excluding Tekfor Group sales to AAM during those periods. Unaudited pro forma net income amounts for the years ended December 31, 2022 and December 31, 2021 were approximately \$55 million and \$15 million, respectively. Unaudited pro forma earnings per share amounts for the year ended December 31, 2022 and December 31, 2021 were \$0.46 per share and \$0.13 per share, respectively. Unaudited pro forma net income for the year ended December 31, 2021 includes a one-time gain of approximately \$15 million associated with a Tekfor Group entity as a result of a favorable tax ruling in a foreign jurisdiction.

The unaudited pro forma net income amounts for the years ended December 31, 2022 and December 31, 2021 have been adjusted for approximately \$4 million, net of tax, related to the step-up of inventory to fair value as a result of the acquisition, approximately \$5 million, net of tax, for acquisition-related costs, and approximately \$14 million for the gain on bargain purchase of business, which was not subject to tax. This resulted in a net reclassification of approximately \$5 million from unaudited pro forma net income in 2022 into unaudited pro forma net income in 2021, as we are required to disclose the unaudited pro forma amounts as if the acquisition of Tekfor Group had been completed on January 1, 2021.

The disclosure of unaudited pro forma net sales and earnings is for informational purposes only and does not purport to indicate the results that would actually have been obtained had the merger been completed on the assumed date for the periods presented, or which may be realized in the future.

Acquisition of Manufacturing Facility in Emporium, Pennsylvania

In May 2021, AAM completed our acquisition of Emporium, under which we acquired \$14.9 million of net assets that consisted of \$5.9 million of inventory and \$9.0 million of property, plant and equipment. The purchase price was \$14.9 million, which consisted of \$4.9 million of cash and \$10.0 million of a deferred consideration liability that will be paid to the seller at \$2.5 million annually over the period 2022 through 2025. As the value of the net assets acquired was equal to the purchase price, no goodwill or gain on bargain purchase was recognized for this acquisition for the year ended December 31, 2021.

The operating results of this manufacturing facility for the period from our acquisition date through December 31, 2021 were insignificant to AAM's Consolidated Statements of Operations for this period. Further we have not disclosed pro forma revenue and earnings for the year ended December 31, 2021 as the operating results of this manufacturing facility would be insignificant to AAM's consolidated results for this period.

Following the completion of our acquisition of Emporium, we determined that we would cease production at the facility and relocate the production capacity to other AAM manufacturing facilities. In 2023, we completed the exit of Emporium. See Note 2 - Restructuring and Acquisition-Related Costs for additional detail on the restructuring charges we have incurred related to the closure of the facility.

Sale of Interest in Consolidated Joint Venture

In the year ended December 31, 2021, we completed the sale of our ownership interest in a consolidated joint venture and received cash proceeds of approximately \$2.6 million. As a result of the sale and deconsolidation of this joint venture, we recognized a loss of \$2.7 million. Subsequent to the sale of this joint venture, we no longer present noncontrolling interest in our consolidated financial statements as all consolidated entities are wholly-owned.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

17. SEGMENT AND GEOGRAPHIC INFORMATION

Our business is organized into Driveline and Metal Forming segments, with each representing a reportable segment under ASC 280 - *Segment Reporting*. The results of each segment are regularly reviewed by the chief operating decision maker to assess the performance of the segment and make decisions regarding the allocation of resources to the segments.

Our product offerings by segment are as follows:

- Driveline products consist primarily of front and rear axles, driveshafts, differential assemblies, clutch modules, balance shaft systems, disconnecting driveline technology, and electric and hybrid driveline products and systems for light trucks, SUVs, CUVs, passenger cars and commercial vehicles; and
- Metal Forming products consist primarily of engine, transmission, driveline and safety-critical components for traditional internal combustion engine and electric vehicle architectures including light vehicles, commercial vehicles and off-highway vehicles, as well as products for industrial markets.

We use Segment Adjusted EBITDA as the measure of earnings to assess the performance of each segment and determine the resources to be allocated to the segments. We define EBITDA to be earnings before interest expense, income taxes, depreciation and amortization. Segment Adjusted EBITDA is defined as EBITDA for our reportable segments excluding the impact of restructuring and acquisition-related costs, debt refinancing and redemption costs, loss on the sale of a business, pension curtailment and settlement charges, unrealized gains or losses on equity securities, and non-recurring items.

In the first quarter of 2023, we moved a plant location that was previously reported under our Driveline segment to our Metal Forming segment in order to better align our product and process technologies. The amounts in the tables below for years ended December 31, 2022 and December 31, 2021 have been recast to reflect this reorganization.

On June 1, 2022, our acquisition of Tekfor became effective and we began consolidating the results of Tekfor on that date, which are reported in our Metal Forming segment for the years ended December 31, 2023 and December 31, 2022.

	Year Ended December 31, 2023			
	Driveline	Metal Forming	Corporate and Eliminations	Total
	<i>(in millions)</i>			
Sales.....	\$ 4,176.7	\$ 2,454.3	\$ —	\$ 6,631.0
Less: Intersegment sales.....	0.2	551.3	—	551.5
Net external sales.....	\$ 4,176.5	\$ 1,903.0	\$ —	\$ 6,079.5
Segment adjusted EBITDA.....	\$ 543.6	\$ 149.7	\$ —	\$ 693.3
Depreciation and amortization.....	\$ 260.3	\$ 226.9	\$ —	\$ 487.2
Capital expenditures.....	\$ 105.9	\$ 80.1	\$ 8.6	\$ 194.6
Total assets.....	\$ 2,554.3	\$ 1,788.7	\$ 1,013.3	\$ 5,356.3

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Year Ended December 31, 2022

	Driveline	Metal Forming	Corporate and Eliminations	Total
Sales	\$ 4,063.5	\$ 2,280.7	\$ —	\$ 6,344.2
Less: Intersegment sales	—	541.8	—	541.8
Net external sales	\$ 4,063.5	\$ 1,738.9	\$ —	\$ 5,802.4
Segment adjusted EBITDA	\$ 510.9	\$ 236.4	\$ —	\$ 747.3
Depreciation and amortization	\$ 272.7	\$ 219.4	\$ —	\$ 492.1
Capital expenditures	\$ 103.3	\$ 62.9	\$ 5.2	\$ 171.4
Total assets	\$ 2,542.0	\$ 1,900.3	\$ 1,027.1	\$ 5,469.4

Year Ended December 31, 2021

	Driveline	Metal Forming	Corporate and Eliminations	Total
Sales	\$ 3,695.3	\$ 1,912.8	\$ —	\$ 5,608.1
Less: Intersegment sales	0.2	451.3	—	451.5
Net external sales	\$ 3,695.1	\$ 1,461.5	\$ —	\$ 5,156.6
Segment adjusted EBITDA	\$ 541.8	\$ 291.5	\$ —	\$ 833.3
Depreciation and amortization	\$ 293.8	\$ 250.5	\$ —	\$ 544.3
Capital expenditures	\$ 123.4	\$ 53.9	\$ 3.9	\$ 181.2
Total assets	\$ 2,852.0	\$ 1,650.5	\$ 1,133.2	\$ 5,635.7

Assets included in the Corporate and Eliminations column of the tables above represent AAM corporate assets, as well as eliminations of intercompany assets.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The following table represents a reconciliation of Segment Adjusted EBITDA to consolidated income (loss) before income taxes for the years ended December 31, 2023, 2022 and 2021:

	Year Ended December 31,		
	2023	2022	2021
	<i>(in millions)</i>		
Segment adjusted EBITDA	\$ 693.3	\$ 747.3	\$ 833.3
Interest expense	(201.7)	(174.5)	(195.2)
Depreciation and amortization	(487.2)	(492.1)	(544.3)
Restructuring and acquisition-related costs	(25.2)	(30.2)	(49.4)
Pension curtailment and settlement charges	(1.3)	—	(42.3)
Loss on sale of business	—	—	(2.7)
Unrealized gain (loss) on equity securities	(1.1)	(25.5)	24.4
Debt refinancing and redemption costs	(1.3)	(6.4)	(34.0)
Malvern Fire insurance recoveries, net of charges	—	39.1	11.4
Acquisition-related fair value inventory adjustment	—	(5.0)	—
Gain on bargain purchase of business	—	13.6	—
Income (loss) before income taxes	<u>\$ (24.5)</u>	<u>\$ 66.3</u>	<u>\$ 1.2</u>

Financial information relating to our operations by geographic area is presented in the following table. Net sales are attributed to countries based upon location of production. Long-lived assets exclude deferred income taxes.

	December 31,		
	2023	2022	2021
	<i>(in millions)</i>		
Net sales			
United States	\$ 2,163.5	\$ 2,148.0	\$ 1,923.5
Mexico	2,273.5	2,293.2	2,058.9
South America	184.4	137.4	94.3
China	271.6	280.0	299.6
All other Asia	273.1	213.3	189.4
Europe	913.4	730.5	590.9
Total net sales	<u>\$ 6,079.5</u>	<u>\$ 5,802.4</u>	<u>\$ 5,156.6</u>
Long-lived assets			
United States	\$ 1,694.3	\$ 1,778.9	\$ 1,976.5
Mexico	778.4	821.3	888.1
South America	75.8	71.2	40.9
China	110.9	130.1	164.8
All other Asia	79.2	80.5	87.1
Europe	441.7	475.0	501.2
Total long-lived assets	<u>\$ 3,180.3</u>	<u>\$ 3,357.0</u>	<u>\$ 3,658.6</u>

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of American Axle and Manufacturing Holdings, Inc.

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of American Axle and Manufacturing Holdings, Inc. and subsidiaries (the "Company") as of December 31, 2023 and 2022, the related consolidated statements of operations, comprehensive income (loss), stockholders' equity, and cash flows, for each of the three years in the period ended December 31, 2023, and the related notes and the schedule listed in the Index at Item 15 (collectively referred to as the "financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2023, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2023, in conformity with accounting principles generally accepted in the United States of America. Also, in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by COSO.

Basis for Opinions

The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on these financial statements and an opinion on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the financial statements included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures to respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current-period audit of the financial statements that were communicated or required to be communicated to the audit committee and that (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Income Taxes — Refer to Notes 1 and 9 to the consolidated financial statements

Critical Audit Matter Description

The Company operates in many different geographic locations, including several foreign, state and local tax jurisdictions. Determining the provision for income taxes, the realizability of deferred tax assets and the recognition and measurement of tax positions requires management to make assumptions and judgments regarding the application of complex tax laws and regulations as well as projected future operating results, eligible carry forward periods, and tax planning opportunities.

The Company recorded an income tax expense of \$9.1 million for the year ended December 31, 2023 and net deferred tax assets of \$152.9 million, net of a valuation allowance of \$267.1 million, and unrecognized tax benefits and related interest and penalties of \$38.1 million as of December 31, 2023. Accounting for income taxes requires management to make assumptions and judgments. Performing audit procedures to evaluate the reasonableness of management's assumptions and judgments required a high degree of auditor judgment and an increased extent of effort, including the need to involve our income tax specialists.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the provision for income taxes, the realizability of deferred tax assets and the recognition and measurement of tax positions included the following which were performed with the assistance of our income tax specialists, among others:

- We tested the effectiveness of controls over the Company's determination of the provision for income taxes, the realizability of deferred tax assets and the recognition and measurement of tax positions.
- We tested the provision for income taxes, including the effective tax rate reconciliation, permanent and temporary differences and uncertain tax positions, by evaluating communications with tax advisors and regulators, and testing the underlying data for completeness and accuracy.

- We evaluated the significant assumptions used by management in establishing and measuring tax-related assets and liabilities, including the application of recent tax laws and regulations, as well as forecasted taxable income, eligible carry forward periods and tax planning opportunities supporting the realizability of deferred tax assets.
- We evaluated the application of relevant tax laws and regulations and the reasonableness of management's assessments of whether certain tax positions are more likely than not of being sustained.

Goodwill Impairment Analysis — Refer to Notes 1 and 3 to the consolidated financial statements

Critical Audit Matter Description

The Company conducts its annual goodwill impairment test in the fourth quarter of each year, as well as whenever adverse events or changes in circumstances indicate a possible impairment. Fair value of each reporting unit is estimated based on a combination of discounted cash flows and the use of pricing multiples derived from an analysis of comparable public companies multiplied against historical and/or anticipated financial metrics of each reporting unit. These calculations contain uncertainties as they require management to make assumptions including, but not limited to, market comparables, future cash flows of the reporting units, and appropriate discount and long-term growth rates.

As a result of the Company's annual goodwill impairment test for the Driveline reporting unit in the fourth quarter of 2023, no impairment was identified.

The consolidated goodwill balance was \$182.1 million as of December 31, 2023 which is attributed entirely to the Driveline reporting unit (Driveline). The impairment test requires management to make assumptions to estimate the fair value of the reporting unit. Performing audit procedures to evaluate the reasonableness of management's assumptions related to market comparables, future cash flows, and discount and long-term growth rates required a high degree of auditor judgment and an increased extent of effort, including the need to involve our fair value specialists.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to market comparables, future cash flows and discount and long-term growth rates included the following, among others:

- We tested the effectiveness of controls over the Company's goodwill impairment test and determination of related assumptions, including those over market comparables, future cash flows and discount and long-term growth rates.
- We evaluated management's ability to accurately forecast future cash flows within the goodwill impairment test, by comparing actual reporting unit results to management's historical forecasts.
- We evaluated the reasonableness of management's forecast of future cash flows by comparing the projected cash flows to (1) historical results, (2) internal communications to management and the Board of Directors, and (3) forecasted information included in Company press releases, analyst and industry reports of the Company and companies in its peer group. With the assistance of our fair value specialists, we tested the underlying source information, and the mathematical accuracy of the forecasted cash flows within the fair value calculations.
- With the assistance of our fair value specialists, we evaluated the market comparables and discount and long-term growth rates, including testing the underlying source information and the mathematical accuracy of the calculations, and developed a range of independent estimates and compared those to the rates selected by management.

/s/ Deloitte & Touche LLP

Detroit, Michigan
February 16, 2024

We have served as the Company's auditor since 1998.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

Under the direction of our Chief Executive Officer and Chief Financial Officer, we evaluated our disclosure controls and procedures and internal control over financial reporting and concluded that our disclosure controls and procedures (as defined in Rules 13a - 15(e) or 15d - 15(e) under the Securities Exchange Act of 1934 (the "Exchange Act")) were effective as of December 31, 2023.

Management Report on Internal Control over Financial Reporting

We are responsible for establishing and maintaining adequate internal control over financial reporting. Our internal control system was designed to provide reasonable assurance to our management and Board of Directors regarding the preparation and fair presentation of our consolidated financial statements.

Our management assessed the effectiveness of our internal control over financial reporting as of December 31, 2023. In making this assessment, we used criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on our assessment, management concluded that, as of December 31, 2023, our internal control over financial reporting was effective based on those criteria.

The audit report of our independent registered public accounting firm regarding internal control over financial reporting is included in Item 8, "Financial Statements and Supplementary Data."

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting during the fourth quarter ended December 31, 2023 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

During the fourth quarter ended December 31, 2023, our directors and officers (as defined in Rule 16a-1(f) of the Securities Exchange Act of 1934, as amended) did not adopt, terminate or modify Rule 10b5-1 or non-Rule 10b5-1 trading arrangements (as defined in Item 408 of Regulation S-K).

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

Item 10. Directors, Executive Officers and Corporate Governance

The information required by Item 401(b), (d), (e) and (f) of Regulation S-K about our executive officers is furnished in Part I of this Form 10-K, Annual Report under the caption “Executive Officers of the Registrant.” All other information required by Item 10 is incorporated herein by reference from our Proxy Statement which we expect to file on or about March 21, 2024.

We have adopted a code of ethics that applies to our Chief Executive Officer and Chief Financial Officer and the senior financial executives who report directly to our Chief Financial Officer. This code of ethics is available on our website at *www.aam.com*. We will post on our website any amendment to or waiver from the provisions of the code of ethics or our code of business conduct that applies to executive officers or directors of the Company.

Item 11. Executive Compensation

The information required by Item 11 is incorporated by reference from our Proxy Statement.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by Item 12 is incorporated by reference from our Proxy Statement.

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by Item 13 under Items 404 and 407(a) of Regulation S-K is incorporated by reference from our Proxy Statement.

Item 14. Principal Accounting Fees and Services

The information required by Item 9(e) of Schedule 14A is incorporated by reference from our Proxy Statement.

Item 15. Exhibits and Financial Statement Schedules

The following documents are filed as a part of this report:

1. All Financial Statements

Consolidated Statements of Operations
Consolidated Statements of Comprehensive Income (Loss)
Consolidated Balance Sheets
Consolidated Statements of Cash Flows
Consolidated Statements of Stockholders' Equity
Notes to Consolidated Financial Statements
Report of Independent Registered Public Accounting Firm (PCAOB ID No. 34)

2. Financial Statement Schedules

Schedule II - Valuation and Qualifying Accounts for the years ended December 31, 2023, 2022 and 2021 is filed as part of this Form 10-K.

All other schedules have been omitted because they are not applicable or not required.

3. Exhibits

The following exhibits were previously filed unless otherwise indicated:

<u>Number</u>	<u>Description of Exhibit</u>
2.01	Agreement and Plan of Merger by and among American Axle & Manufacturing Holdings, Inc., ALPHA SPV I, Inc. and Metaldyne Performance Group Inc. (Incorporated by reference to Exhibit 2.1 of Current Report on Form 8-K dated November 8, 2016.)
2.02	Unit Purchase Agreement, dated as of September 18, 2019, by and among American Axle & Manufacturing Holdings, Inc., Grede AcquisitionCo, Inc. and, for certain limited purposes, Grede TopCo, Inc. (Incorporated by reference to Exhibit 2.1 of Current Report on Form 8-K dated September 18, 2019)
3.01	Amended and Restated Certificate of Incorporation of American Axle & Manufacturing Holdings, Inc. (Incorporated by reference to Exhibit 3.2 filed with American Axle & Manufacturing Holdings, Inc. Registration Statement on Form S-8 dated September 1, 2017 (Registration No. 333-220300).)
3.02	Third Amended and Restated Bylaws of American Axle & Manufacturing Holdings, Inc. (Incorporated by reference to Exhibit 3.04 filed of Current Report on Form 8-K dated February 13, 2018.)
4.01	Specimen Certificate for shares of the Company's Common Stock (Incorporated by reference to Exhibit 4.01 filed with American Axle & Manufacturing Holdings, Inc. Registration Statement on Form S-1/A dated December 21, 1998 (Registration No. 333-53491).)
4.02	Form of Indenture, among American Axle & Manufacturing, Inc., American Axle & Manufacturing Holdings, Inc., as guarantor, certain subsidiary guarantors and U.S. Bank National Association, as trustee (Incorporated by reference to Exhibit 4.3 of Registration Statement on Form S-3 dated July 12, 2011.)

<u>Number</u>	<u>Description of Exhibit</u>
4.03	Indenture, dated as of November 3, 2011, among American Axle & Manufacturing, Inc., the Guarantors and U.S. Bank National Association, as trustee (Incorporated by Reference to Exhibit 4.1 of Current Report on Form 8-K dated October 31, 2011.)
4.04	Form of 6.50% Notes due 2027 (Incorporated by Reference to Exhibit 4.3 of Current Report on Form 8-K dated March 23, 2017.)
4.05	First Supplemental Indenture, dated March 23, 2017 among American Axle & Manufacturing, Inc., Alpha SPV I, Inc., American Axle & Manufacturing Holdings, Inc., certain subsidiary guarantors and U.S. Bank National Association, as trustee (Incorporated by reference to Exhibit 4.1 of Current Report on Form 8-K dated March 23, 2017.)
4.06	Second Supplemental Indenture, dated May 17, 2017 among American Axle & Manufacturing, Inc., Metaldyne Performance Group Inc., American Axle & Manufacturing Holdings, Inc. certain subsidiary guarantors and U.S. Bank National Association, as trustee (Incorporated by reference to Exhibit 4.1 of Current Report on Form 8-K dated May 17, 2017.)
4.07	Registration Rights Agreement, dated as of March 23, 2017, among American Axle & Manufacturing, Inc., certain subsidiary guarantors and J.P. Morgan Securities LLC, as representative of the Initial Purchasers, in respect of the 6.50% Senior Notes due 2027 (Incorporated by reference to Exhibit 10.2 of Current Report on Form 8-K dated March 23, 2017.)
4.08	Third Supplemental Indenture, dated March 23, 2018 among American Axle & Manufacturing, Inc., American Axle & Manufacturing Holdings, Inc., certain subsidiary guarantors signatory thereto and U.S. Bank National Association, as trustee (Incorporated by reference to Exhibit 4.1 of Current Report on Form 8-K dated March 26, 2018.)
4.09	Form of 6.25% Notes due 2026 (Incorporated by reference to Exhibit 4.1 of Current Report on Form 8-K dated March 27, 2018.)
4.10	Form of 6.875% Notes due 2028 (Incorporated by reference to Exhibit 4.1 of Current Report on Form 8-K dated June 12, 2020)
4.11	Form of 5.00% Notes due 2029 (Incorporated by reference to Exhibit 4.1 of Current Report on Form 8-K dated August 19, 2021)
*4.12	Description of Registered Securities
10.01	Asset Purchase Agreement, dated February 18, 1994, between AAM, Inc. and GM, and all amendments thereto (Incorporated by reference to Exhibit 10.01 filed with American Axle & Manufacturing Holdings, Inc. Registration Statement on Form S-1 dated May 26 1998 (Registration No. 333-53491).)
10.02	Lifetime Program Contract for GMT-900 Products, between GM and AAM, Inc. (Incorporated by reference to Exhibit 10.51 filed with American Axle & Manufacturing Holdings, Inc. Form 10-Q for the quarterly period ended June 30, 2003.)
++10.03	Letter Agreement dated April 22, 2004 by and between DaimlerChrysler Corporation and AAM, Inc. (Incorporated by reference to Exhibit 10.43 filed with American Axle & Manufacturing Holdings, Inc. Form 10-Q for the quarterly period ended June 30, 2004.)

<u>Number</u>	<u>Description of Exhibit</u>
++10.04	Letter Agreement between General Motors Corporation and American Axle & Manufacturing, Inc. dated June 29, 2007 (Incorporated by reference to Exhibit 99.1 of Current Report on Form 8-K dated June 29, 2007.)
10.05	Agreement between General Motors Corporation and American Axle & Manufacturing, Inc. dated May 3, 2008, as amended May 16, 2008 (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated May 23, 2008.)
++10.06	Settlement and Commercial Agreement, dated as of September 16, 2009, among General Motors Company, American Axle & Manufacturing Holdings, Inc. and American Axle & Manufacturing, Inc. (Incorporated by reference to Exhibit 10.62 of Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2009.)
‡10.07	Form of Restricted Stock Unit Award Agreement for Board of Directors under the 2012 Omnibus Incentive Plan (Incorporated by reference to Exhibit 10.1 of Quarterly Report on Form 10-Q dated May 2, 2014.)
‡10.08	Employment Agreement dated as of August 1, 2015 by and between the Company and Michael K. Simonte (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated July 31, 2015.)
‡10.09	Amended and Restated American Axle & Manufacturing Holdings, Inc. 2012 Omnibus Incentive Plan (Incorporated by reference to Exhibit 4.1 filed with American Axle & Manufacturing Holdings, Inc. Registration Statement on Form S-8 dated September 1, 2017 (Registration No. 333-220300).)
10.10	Credit Agreement dated as of April 6, 2017 among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., each financial institution party thereto as a lender and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated April 12, 2017.)
10.11	Collateral Agreement dated as of April 6, 2017 among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries of American Axle & Manufacturing Holdings, Inc. identified therein and JPMorgan Chase Bank, N.A., as Collateral Agent (Incorporated by reference to Exhibit 10.2 of Current Report on Form 8-K dated April 12, 2017.)
10.12	Guarantee Agreement dated as of April 6, 2017 among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries identified therein and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 99.1 of Current Report on Form 8-K dated April 12, 2017.)
‡10.13	Amendment to American Axle & Manufacturing Holdings, Inc. Executive Deferred Compensation Plan (as amended and restated effective January 1, 2005, and as further amended prior to the date hereof) (Incorporated by reference to Exhibit 10.2 of Current Report on Form 8-K dated April 16, 2018.)
‡10.14	Amended and Restated Employment Agreement dated February 19, 2015 by and between the Company and David C. Dauch (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated February 26, 2015.)
‡10.15	Amendments to the Amended and Restated Employment Agreement dated February 19, 2015 by and between the Company and David C. Dauch (Incorporated by reference to Exhibit 10.5 of Current Report on Form 8-K dated April 16, 2018.)

<u>Number</u>	<u>Description of Exhibit</u>
‡10.16	Amendment to the Employment Agreement dated August 1, 2015 by and between the Company and Michael K. Simonte (Incorporated by reference to Exhibit 10.6 of Current Report on Form 8-K dated April 16, 2018.)
‡10.17	American Axle & Manufacturing Holdings, Inc. Change in Control Plan (Incorporated by reference to Exhibit 10.1 of Quarterly Report on Form 10-Q dated August 3, 2018.)
‡10.18	American Axle & Manufacturing, Inc. Amended and Restated Supplemental Executive Retirement Program Document (Incorporated by reference to Exhibit 10.29 of Annual Report on Form 10-K dated February 15, 2019)
‡10.19	Form of Restricted Stock Unit Award Agreement (Cliff Vesting) for Executive Officers under the 2018 Omnibus Incentive Plan (Incorporated by reference to Exhibit 10.3 of Current Report on Form 8-K dated March 8, 2019)
10.20	First Amendment dated as of July 29, 2019, among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries of American Axle & Manufacturing Holdings, Inc. identified therein, each financial institution party thereto as a lender and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated August 1, 2019)
10.21	Second Amendment dated as of April 28, 2020 among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries of American Axle & Manufacturing Holdings, Inc. identified therein (for the limited purpose specified therein), each financial institution party thereto and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated May 4, 2020)
‡10.22	Form of Restricted Stock Unit Award Agreement (Cliff Vesting) for Non-Employee Directors under the 2018 Omnibus Incentive Plan (Incorporated by reference to Exhibit 10.3 of Quarterly Report on Form 10-Q dated May 8, 2020)
‡10.23	American Axle & Manufacturing Holdings, Inc. Executive Retirement Savings Plan (Incorporated by reference to Exhibit 10.2 of Quarterly Report on Form 10-Q dated October 30, 2020)
‡10.24	Form of Performance Share Award (Free Cash Flow) for Executive Officers under the 2018 Omnibus Incentive Plan (Incorporated by reference to Exhibit 10.1 of Quarterly Report on Form 10-Q dated May 7, 2021)
‡10.25	Form of Performance Unit Award (Free Cash Flow) for Executive Officers under the 2018 Omnibus Incentive Plan (Incorporated by reference to Exhibit 10.2 of Quarterly Report on Form 10-Q dated May 7, 2021)
10.26	Agreement dated as of June 11, 2021, among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries of American Axle & Manufacturing Holdings, Inc. identified therein (for the limited purpose specified therein), each financial institution party thereto as a lender and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated June 14, 2021)

<u>Number</u>	<u>Description of Exhibit</u>
‡10.27	Amended and Restated American Axle & Manufacturing Holdings, Inc. 2018 Omnibus Incentive Plan (Incorporated by reference to Exhibit 4.1 of Registration Statement S-8 dated June 30, 2021 (Registration No. 333-257572).)
10.28	Amended and Restated Credit Agreement, dated as of March 11, 2022 among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries of American Axle & Manufacturing Holdings, Inc. identified therein (for the limited purpose specified therein), each financial institution party thereto as a lender and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K/A dated March 11, 2022)
10.29	Refinancing Facility Agreement No. 1, dated as of December 13, 2022 among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries of American Axle & Manufacturing Holdings, Inc. identified therein, each financial institution party thereto as a lender and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated December 13, 2022)
‡10.30	American Axle & Manufacturing Holdings, Inc. Amended and Restated Executive Officer Severance Plan (Incorporated by reference to Exhibit 10.34 of Annual Report on Form 10-K dated February 17, 2023)
10.31	First Amendment to the Amended and Restated Credit Agreement, dated as of June 28, 2023, among American Axle & Manufacturing Holdings, Inc., American Axle & Manufacturing, Inc., certain subsidiaries of American Axle & Manufacturing Holdings, Inc. identified therein, each financial institution party thereto as a lender and JPMorgan Chase Bank, N.A., as Administrative Agent (Incorporated by reference to Exhibit 10.1 of Current Report on Form 8-K dated June 29, 2023)
‡*10.32	American Axle & Manufacturing Holdings, Inc. Amended and Restated 2018 Omnibus Incentive Plan - 2023 Incentive Compensation Program for Executive Officers
*21	Subsidiaries of the Registrant
*22	Subsidiary Guarantors and Issuers of Guaranteed Securities
*23	Consent of Independent Registered Public Accounting Firm
*31.1	Certification of Chief Executive Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act
*31.2	Certification of Chief Financial Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act
*32	Certifications of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
*97	American Axle & Manufacturing Holdings, Inc. Dodd-Frank Clawback Policy

Number	Description of Exhibit
101.INS	XBRL Instance Document - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document
**101.SCH	XBRL Taxonomy Extension Schema Document
**101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
**101.LAB	XBRL Taxonomy Extension Label Linkbase Document
**101.PRE	XBRL Extension Presentation Linkbase Document
**101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
**104	Cover Page Interactive Data File (formatted in Inline XBRL contained in Exhibit 101)

(All other exhibits are not applicable.)

- ++ Confidential Treatment Request Granted by the SEC
- ‡ Reflects Management or Compensatory Contract
- * Shown only in the original filed with the Securities and Exchange Commission
- ** Submitted electronically with the original filed with the Securities and Exchange Commission

Schedule II - VALUATION AND QUALIFYING ACCOUNTS

	<u>Balance at Beginning of Period</u>	<u>Additions - Charged to Costs and Expenses</u>	<u>Acquisitions and Disposals (a)</u>	<u>Deductions</u>	<u>Balance At End of Period</u>
			<i>(in millions)</i>		
<u>Year Ended December 31, 2021:</u>					
Allowance for credit losses ⁽¹⁾	\$ 4.5	\$ 7.8	\$ —	\$ 10.1	\$ 2.2
Allowance for deferred taxes ⁽³⁾	208.0	2.7	—	9.0	201.7
Inventory valuation allowance ⁽²⁾	23.4	17.7	—	22.5	18.6
<u>Year Ended December 31, 2022:</u>					
Allowance for credit losses ⁽¹⁾	2.2	10.1	1.0	4.0	9.3
Allowance for deferred taxes ⁽³⁾	201.7	9.5	7.8	1.5	217.5
Inventory valuation allowance ⁽²⁾	18.6	35.7	4.9	31.7	27.5
<u>Year Ended December 31, 2023:</u>					
Allowance for credit losses ⁽¹⁾	9.3	4.4	—	8.4	5.3
Allowance for deferred taxes ⁽³⁾	217.5	54.5	—	4.9	267.1
Inventory valuation allowance ⁽²⁾	27.5	22.1	—	17.5	32.1

(a) Amounts represent reserves recognized in conjunction with our acquisition of Tekfor in 2022.

(1) Uncollectible accounts charged off, net of recoveries.

(2) Primarily relates to write-offs of excess and obsolete inventories, as well as adjustments for physical quantity discrepancies.

(3) Primarily reflects an increase in valuation allowance related to certain U.S. federal tax attributes, as well as new net operating losses established with a corresponding valuation allowance at certain foreign locations, partially offset by adjustments to previously established valuation allowances and foreign currency translation.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

**AMERICAN AXLE & MANUFACTURING
HOLDINGS, INC.**

(Registrant)

/s/ James G. Zaliwski

James G. Zaliwski

Chief Accounting Officer

Date: February 16, 2024

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ David C. Dauch</u> David C. Dauch	Chairman of the Board & Chief Executive Officer	February 16, 2024
<u>/s/ Christopher J. May</u> Christopher J. May	Executive Vice President & Chief Financial Officer	February 16, 2024
<u>/s/ Elizabeth A. Chappell</u> Elizabeth A. Chappell	Director	February 16, 2024
<u>/s/ William L. Kozyra</u> William L. Kozyra	Director	February 16, 2024
<u>/s/ Peter D. Lyons</u> Peter D. Lyons	Director	February 16, 2024
<u>/s/ James A. McCaslin</u> James A. McCaslin	Director	February 16, 2024
<u>/s/ William P. Miller II</u> William P. Miller II	Director	February 16, 2024
<u>/s/ Herbert K. Parker</u> Herbert K. Parker	Director	February 16, 2024
<u>/s/ Sandra E. Pierce</u> Sandra E. Pierce	Director	February 16, 2024
<u>/s/ John F. Smith</u> John F. Smith	Director	February 16, 2024
<u>/s/ Samuel Valenti III</u> Samuel Valenti III	Director	February 16, 2024

LEADERSHIP

As of March 7, 2024

OFFICERS



DAVID C. DAUCH

Chairman of the Board &
Chief Executive Officer



MICHAEL J. LYNCH

President &
Chief Operating Officer



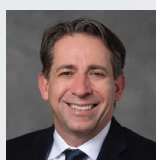
CHRISTOPHER J. MAY

Executive Vice President &
Chief Financial Officer



TERRI M. KEMP

Senior Vice President –
Human Resources & Sustainability



TOLGA I. DAL

President – Driveline



MATTHEW K. PAROLY

Vice President &
General Counsel

BOARD OF DIRECTORS



DAVID C. DAUCH A E T

Chairman of the Board &
Chief Executive Officer



JAMES A. MCCASLIN A B C E T

Retired President & Chief Operating Officer
Harley Davidson Motor Company



JOHN F. SMITH A E T

Principal of Eagle Advisors
Retired Group Vice President,
General Motors



ELIZABETH A. CHAPPELL B T

Former President & Chief Executive
Officer, Detroit Economic Club



WILLIAM P. MILLER II A T

Senior Managing Director: Capital Markets,
Investments and Governance Financial
Markets International, Inc.



SAMUEL VALENTI III A B C

Chairman & Chief Executive Officer
Valenti Capital LLC



WILLIAM L. KOZYRA B C T

Chairman & Chief Executive
Officer, Wilko Plastics, Inc.



HERBERT K. PARKER A B

Retired Executive Vice President
of Operational Excellence and Chief
Financial Officer, Harman International



PETER D. LYONS B C

Counsel
Freshfields Bruckhaus Deringer U.S. LLP



SANDRA E. PIERCE A C

Retired Chair, Huntington Bank Michigan

- A Audit Committee
- B Nominating/Corporate Governance Committee
- C Compensation Committee
- E Executive Committee
- T Technology Committee

STOCKHOLDER INFORMATION

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

One Dauch Drive
Detroit, Michigan 48211-1198
Telephone: (313) 758-2000
www.aam.com

CORPORATE NEWS RELEASES

Corporate news releases are available on our website at aam.com

ANNUAL MEETING OF STOCKHOLDERS

The 2023 Annual Meeting of Stockholders will be held on May 2, 2024 at 8:00 a.m. EST.

FORM 10-K ANNUAL REPORT

AAM's Form 10-K Annual Report for 2023, filed with the Securities and Exchange Commission, is available on our website or from:

American Axle & Manufacturing Holdings, Inc.
Investors Relations
One Dauch Drive
Detroit, Michigan 48211-1198
Telephone: (313) 758-2000

EQUITY SECURITIES

Inquiries related to shareholder records; change of name, address, or ownership of stock, and lost or stolen stock certificates should be directed to the transfer agent and registrar.

Computershare
C/O: Shareholder Services
P.O. Box 43078
Providence RI 02940-3078
Internet: www.computershare.com/investor

¹2022 peer group comprised of Adient plc, Autoliv Inc., BorgWarner Inc., Dana Incorporated, Lear Corporation, and Magna International Inc. as Meritor Inc. and Tenneco Inc. were acquired. As a result, Cooper-Standard Holdings Inc. and Garrett Motion Inc. were added to the 2023 peer group to return the set to eight companies.

STOCK LISTING

The New York Stock Exchange is the principal market for AAM common stock. Ticker Symbol: AXL

STOCKHOLDERS

As of March 7, 2024, there were 151 stockholders of record.

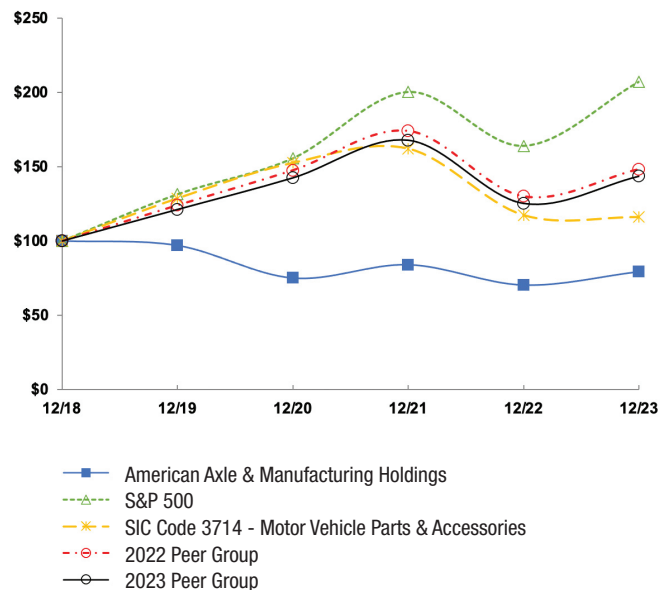
STOCK PERFORMANCE

Comparison of cumulative total return of AAM with the cumulative return of our 2023 competitor peer group (Adient plc, Autoliv Inc., BorgWarner Inc., Cooper-Standard Holdings Inc., Dana Incorporated, Garrett Motion Inc., Lear Corporation, and Magna International Inc.), the Standard & Poor's 500 Composite Index, and our 2022 peer group[†] assuming \$100 invested on December 31, 2018 through December 31, 2023.

The closing price of AXL on December 29, 2023 was \$8.81.

COMPARISON OF 5-YEAR CUMULATIVE TOTAL RETURN*

Among American Axle & Manufacturing Holdings, the S&P 500 Index, SIC Code 3714 - Motor Vehicle Parts & Accessories and Peer Group



*\$100 invested on 12/31/18 in stock or index, including reinvestment of dividends. Fiscal year ending December 31.

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