UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 OR 15d-16
UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of October 2026

Commission File Number 001-40924

ALGOMA STEEL GROUP INC.
(Exact name of Registrant as specified in its charter)

N/A
(Translation of Registrant's name into English)

105 West Street
Sault Ste. Marie, Ontario
P6A 7B4, Canada
(705) 945-2351
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:

Form 20-F ☐ Form 40-F ☒

INCORPORATION BY REFERENCE

Exhibit 99.1 of this Form 6-K is incorporated by reference into the Registration Statement on Form S-8 (Commission File No. 333-264063) and the Registration Statement on Form F-10 (Commission File No. 333-288748) of the Registrant, Algoma Steel Group Inc.

EXHIBIT INDEX

Exhibit Number	Description
99.1	Press release dated October 1, 2026.

SIGNATURES

Pursuant to the requirements 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.

Algoma Steel Group Inc.

Date: October 1, 2026

By: /s/ John Naccarato
Name: John Naccarato
Title: Vice President Strategy and Chief Legal Officer

ALGOMA STEEL INC.

Building Better Lives and a Greener Future

MEDIA RELEASE
October 1, 2026

Algoma Steel Group Inc. Provides Guidance for the Third Quarter 2026

SAULT STE. MARIE, Ontario, October 1, 2026 - Algoma Steel Group Inc. (NASDAQ: ASTL; TSX: ASTL) ("Algoma" or "the Company"), a leading Canadian producer of steel plate and hot rolled sheet products, today provided guidance for its quarter ended September 30, 2026. Unless otherwise specified, all amounts are in Canadian dollars.

Total steel shipments for the quarter are expected to be approximately 145,000 tons and Adjusted EBITDA is expected to be in the range of negative $10 million to negative $20 million. Note that the guidance for Adjusted EBITDA includes the benefit of an expected capacity utilization adjustment of approximately $50 million to $55 million.

Rajat Marwah, Chief Executive Officer of Algoma, commented, "We have successfully installed a replacement turbine at Lake Superior Power and the plant is now operating at full power. We appreciate the support and responsiveness of the Independent Electricity System Operator and Hydro One as we worked to restore reliable power and maintain operational continuity during this period. All electrical equipment on EAF Unit Two has been tested. We expect first heat in the coming days as we progress toward production and shipments from Unit Two in the fourth quarter."

Michael Moraca, Chief Financial Officer of Algoma, commented, "As previously communicated, the LSP turbine outage temporarily constrained EAF production and was expected to affect shipment volumes. Our third-quarter results reflect those impacts, including lower shipment volumes and a less favourable sales mix. Consistent with our earlier updates, we used the outage period to accelerate planned maintenance and advance commissioning activities at EAF Unit Two, which will help reduce future planned downtime."

Marwah continued, "With power fully restored, planned outages behind us, our second furnace nearing commercial operation and steel prices improving, we believe that we are well-positioned as we enter the final phase of our transformation."

About Algoma Steel

Based in Sault Ste. Marie, Ontario, Algoma is a leading Canadian producer of high-quality plate and sheet steel products, proudly supporting critical sectors including energy, defence, automotive, shipbuilding, and infrastructure. Guided by a purpose to build better lives and a greener future, Algoma is shaping the next generation of sustainable steelmaking in Canada.

With the transition to electric arc furnace (EAF) steelmaking and a modernized plate mill, Algoma is redefining how steel is made in Canada. Powered by Ontario's clean electricity grid, this transformation represents one of the largest industrial decarbonization initiatives in North America and is expected to reduce carbon emissions by approximately 70% once fully transitioned. These advancements provide stability for continued investment in diversification projects aligned with Canada's evolving needs.

This new chapter also introduces Volta™, the brand for all steel produced through Algoma's EAF technology. Volta delivers the same trusted performance customers rely on, with significantly lower emissions—produced safely, sustainably, and proudly in Canada.

Building on more than a century of steelmaking expertise, Algoma continues to invest in its people, processes, and technologies to strengthen domestic supply chains and deliver responsible, Canadian-made steel that helps build a better tomorrow.

Cautionary Statement Regarding Forward-Looking Statements

This news release contains "forward-looking information" under applicable Canadian securities legislation and "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 (collectively, "forward-looking statements"), including statements regarding expected steel shipments and Adjusted EBITDA for the third quarter of 2026, capacity utilization adjustments, future planned maintenance and downtime requirements, reliability of the power supply at LSP, Algoma's transition to EAF steelmaking, expected steel pricing, the timing and ramp-up of EAF units, the Company's expected reduction in carbon emissions following completion of the EAF project, Algoma's future as a leading producer of green steel, Algoma's modernization of its plate mill facilities, transformation journey, the Company's Canada-centric business strategy, its competitive positioning in infrastructure, construction, and defence markets, ability to deliver greater and long-term value, ability to offer North America a secure steel supply and a sustainable future, continued investment in diversification projects, and investment in its people and processes. These forward-looking statements generally are identified by the words "believe," "project," "expect," "anticipate," "estimate," "intend," "strategy," "future," "opportunity," "plan," "design," "pipeline," "may," "should," "will," "would," "will be," "will continue," "will likely result," and similar expressions. Forward-looking statements are predictions, projections and other statements about future events that are

based on current expectations and assumptions. Many factors could cause actual future events to differ materially from the forward-looking statements in this document. Readers should also consider the other risks and uncertainties set forth in the section entitled “Risk Factors” and “Cautionary Note Regarding Forward-Looking Information” in Algoma’s Annual Information Form, filed by Algoma with applicable Canadian securities regulatory authorities (available under the Company’s SEDAR+ profile at www.sedarplus.ca) and with the Securities and Exchange Commission (the “SEC”), as part of Algoma’s Annual Report on Form 40-F (available at www.sec.gov), as well as in Algoma’s current reports with the Canadian securities regulatory authorities and the SEC. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and Algoma assumes no obligation and does not intend to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise.

Non-GAAP Financial Measures

To supplement our financial statements, which are prepared in accordance with IFRS® Accounting Standards as issued by the International Accounting Standards Board (“IASB”) (“IFRS Accounting Standards”), we use certain non-GAAP measures to evaluate the performance of Algoma. These terms do not have any standardized meaning prescribed within IFRS Accounting Standards and, therefore, may not be comparable to similar measures presented by other companies. Rather, these measures are provided as additional information to complement those IFRS Accounting Standards measures by providing a further understanding of our financial performance from management’s perspective. Accordingly, they should not be considered in isolation nor as a substitute for analysis of our financial information reported under IFRS Accounting Standards.

Adjusted EBITDA, as we define it, refers to net income (loss) before amortization of property, plant, equipment and amortization of intangible assets, finance costs, interest on pension and other post-employment benefit obligations, income taxes, foreign exchange loss (gain), finance income, carbon tax, changes in fair value of IPO and LETL Warrants, earnout and share-based compensation liabilities and derivative, share-based compensation related to the Company’s Omnibus Long Term Incentive Plan, certain inventory adjustments, impairment loss, legal settlement, severance costs and stranded inventory. Adjusted EBITDA is not intended to represent cash flow from operations, as defined by IFRS Accounting Standards, and should not be considered as an alternative to net profit (loss) from operations, or any other measure of performance prescribed by IFRS Accounting Standards. Adjusted EBITDA, as we define and use it, may not be comparable to Adjusted EBITDA as defined and used by other companies. We consider Adjusted EBITDA to be a meaningful measure to assess our operating performance in addition to IFRS Accounting Standards. It is included because we believe it can be useful in measuring our operating performance and our ability to expand our business and provide management and investors with additional information for comparison of our operating results across different time periods and to the operating results of other

companies. Adjusted EBITDA is also used by analysts and our lenders as a measure of our financial performance. However, these measures have limitations as analytical tools and should not be considered in isolation from, or as alternatives to, net income, cash flow from operations or other data prepared in accordance with IFRS Accounting Standards. Because of these limitations, such measures should not be considered as measures of discretionary cash available to invest in business growth or to reduce indebtedness. We compensate for these limitations by relying primarily on our IFRS Accounting Standards results using such measures only as supplements to such results.

For more information, please contact:

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