



Media Contact:
Sarah DeWit
+1.317.808.3750 ext. 1233
sdewit@polarislabs.com

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POLARIS Laboratories® Unveils Analysis Engine Powered by AI

INDIANAPOLIS – The company has announced the launch of *Aurora*, an advanced AI-driven analysis engine designed to transform equipment reliability and maintenance strategies.



“These are groundbreaking times for our organization,” said Mark Westlake, Chief Information Officer with POLARIS Laboratories®.

“Aurora embodies years of dedication, combining Artificial Intelligence (AI) and Machine Learning (ML) to create an intelligent, adaptable system that enhances how our customers manage equipment health.”

Leveraging their 25-year legacy of processing millions of fluid samples, POLARIS Laboratories® has one of the industry’s most comprehensive datasets for lubricant performance, equipment health trends and application-specific conditions. These insights allowed the company to develop advanced diagnostic algorithms and flagging thresholds to optimize maintenance actions.

By integrating Machine Learning, Aurora continuously refines its predictions, becoming more reliable as it processes more data. Maintenance teams can now anticipate issues, minimize downtime and make better data-driven decisions to extend the lifecycle of critical assets.

“Aurora represents a new era of equipment reliability,” Westlake continued. “It’s not just about monitoring performance—it’s about redefining what’s possible with predictive maintenance.”

Advancing the capabilities of fluid analysis and revolutionizing the future of equipment reliability, this new AI-driven system has launched across POLARIS Laboratories’ network. Aurora is here to make fluid analysis more accurate, more reliable and more timely.

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POLARIS Laboratories® is an independent fluid analysis company headquartered in Indianapolis, Indiana and six additional laboratories around the globe. The company specializes in testing and analyzing oil, coolant, grease and diesel fuel to provide maintenance recommendations that reduce maintenance costs, improve equipment reliability and minimize unscheduled downtime for companies in the transportation, oil and gas, construction, mining and power generation industries. The United States and Poland laboratory locations are ISO17025:2017 certified by A2LA (certificate 2145.01).

7451 Winton Drive, Indianapolis, IN 46268, USA
+1.317.808.3750 • www.polarislabs.com

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