

FORGE BLOWER MONITORING: HOW SONORA SAVED CIE LT FORGE FROM COSTLY DOWNTIME

Sonora is Viezo's advanced predictive maintenance system that uses vibration sensors to monitor industrial equipment like pumps and motors in real-time, detecting faults through recurring patterns via AI analysis. Data is collected hourly, and displayed on a web platform for timely alerts, enabling proactive repairs to avoid downtime.

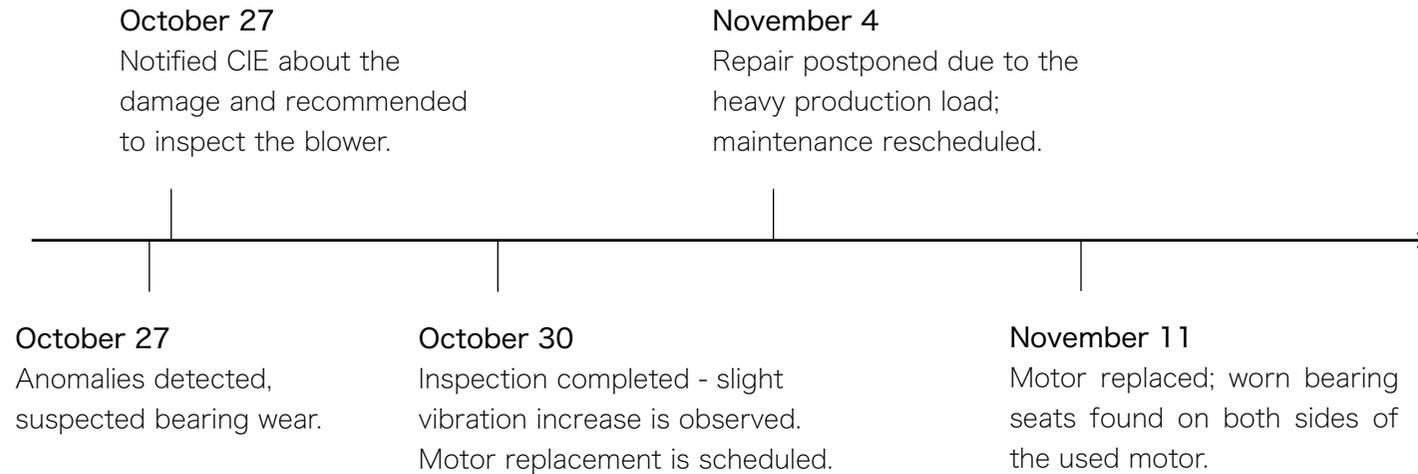
CIE LT Forge, is a modern metal-working facility specialising in forging, machining, heat treatment and tooling manufacturing for the automotive industry. As part of the global CIE Automotive Group network, it serves powertrain, gearbox, transmission, brakes, chassis and structural components markets, delivering high value-added processes.

In October 2025, Sonora identified rising vibration spikes and a steady upward RMS trend on CIE LT Forge's air-injection blower, indicating developing bearing wear. Maintenance later confirmed worn bearing seats, and the motor was replaced before the issue escalated into an unplanned failure.



WHAT HAPPENED?

Sonora's early detection of bearing wear enabled CIE LT Forge to replace the motor during planned maintenance, preventing an unexpected failure on a critical blower and avoiding costly production downtime.



RESULTS

- Prevented unexpected failure of the air-injection blower;
- Avoided downtime and production losses;
- Enabled planned motor replacement rather than reactive repair;
- Maintained stable operation with no disruption to the production process.

“If not for Sonora, we would have certainly had a significant production halt.”

Head of Maintenance, CIE LT FORGE