VIEZO

SHREDDER ENGINE UNDER WATCH:
SONORA PINPOINTED THE ROOT CAUSE OF THE FAILURE AT IKEA

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.

IKEA Industry Lietuva, based in Kazlų Rūda (Lithuania), manufactures chipboards and ready-to-assemble furniture components as part of the global IKEA production network.

In July 2025, Sonora detected rising vibration and shock levels across multiple points on IKEA's shredder engine, indicating developing shaft-side wear. After initial tool replacement showed no visible damage, continued monitoring pinpointed the right-bottom motor as the root cause. The motor was replaced, and maintenance confirmed bearing failure, preventing further mechanical degradation.
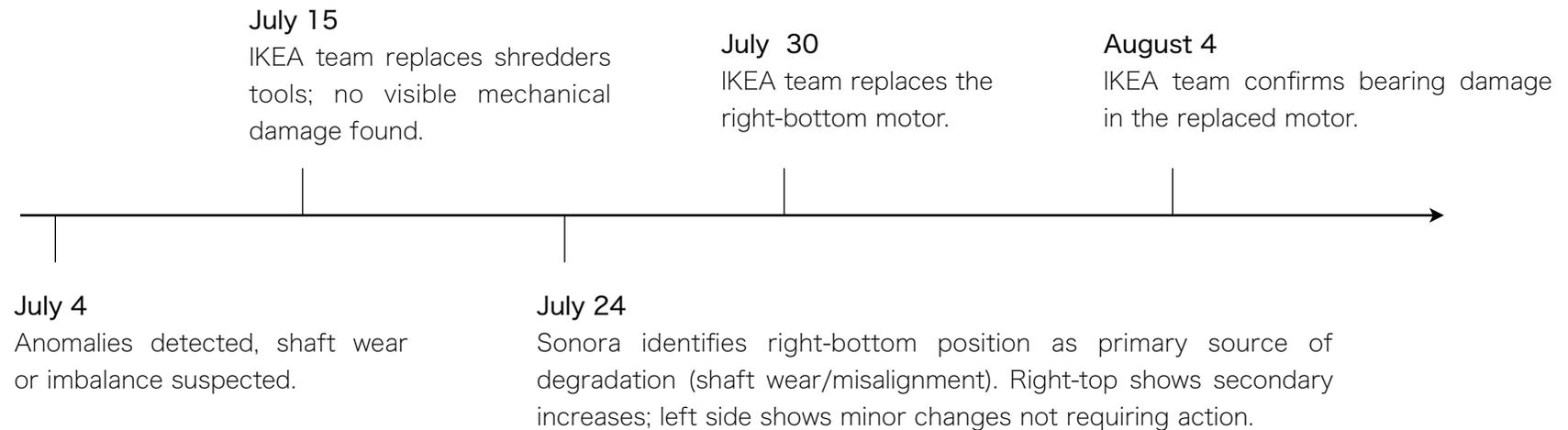
WHAT HAPPENED?

Sonora detected rising vibration and shock levels across multiple points on IKEA's shredder engine, helping maintenance identify the right-bottom motor as the true fault source and replace it before bearing failure escalated into broader mechanical damage or unplanned downtime.

July 15
IKEA team replaces shredders tools; no visible mechanical damage found.

July 30
IKEA team replaces the right-bottom motor.

August 4
IKEA team confirms bearing damage in the replaced motor.

July 4
Anomalies detected, shaft wear or imbalance suspected.

July 24
Sonora identifies right-bottom position as primary source of degradation (shaft wear/misalignment). Right-top shows secondary increases; left side shows minor changes not requiring action.

RESULTS

- Identified failure across multiple assets on the shredders;
- Pinpointed the right-bottom position as the true root cause;
- Guided correct repair after initial tool replacement yielded no results;
- Prevented bearing failure escalation into broader mechanical damage;
- Enabled targeted, data-driven maintenance instead of trial-and-error.

"The expectations for Sonora work are not just met, they are way exceeded."

Automation Engineer, IKEA Industry Lithuania