Lummus Predictive Maintenance System

What is Predictive Maintenance?

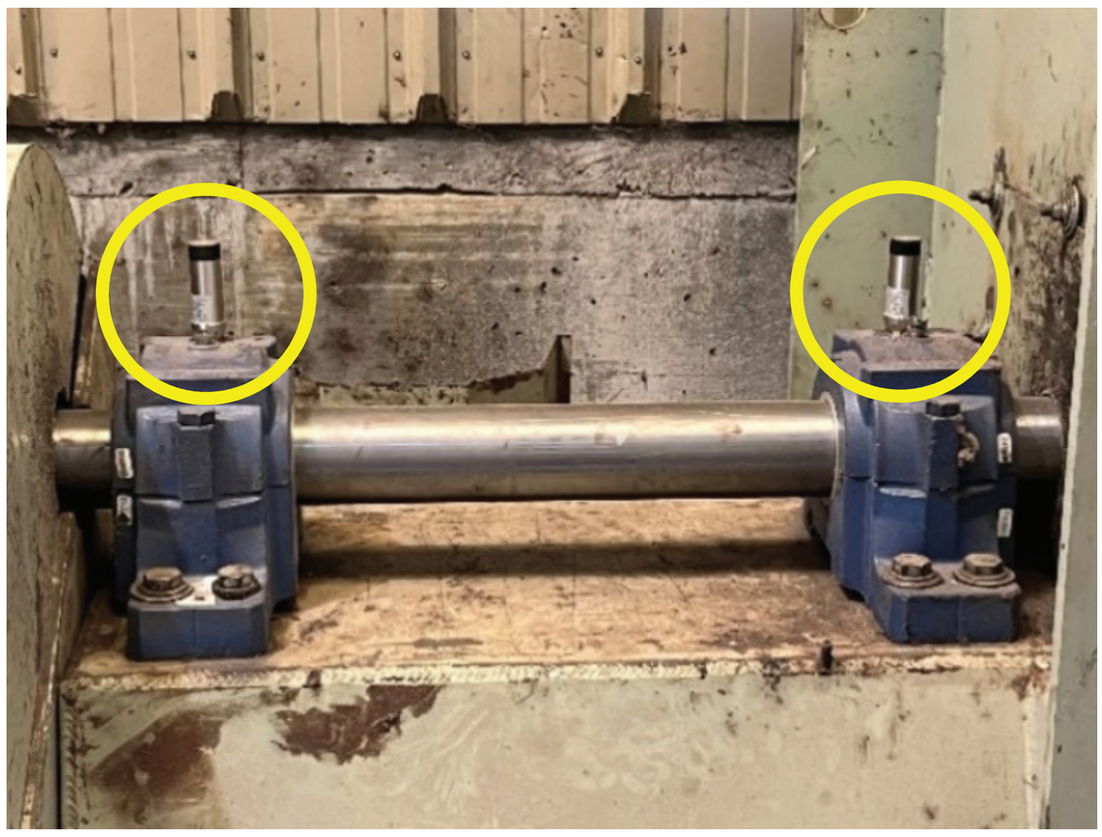
Predictive Maintenance (PM) is a system that utilizes sensors and artificial intelligence (AI) to continuously monitor equipment and notify users of emerging mechanical faults before failure happens. Since a major element of processing cost is unplanned downtime, having a way to know whether a failure is imminent allows the facility to be proactive, rather than reactive, in addressing the issue.

Benefits:

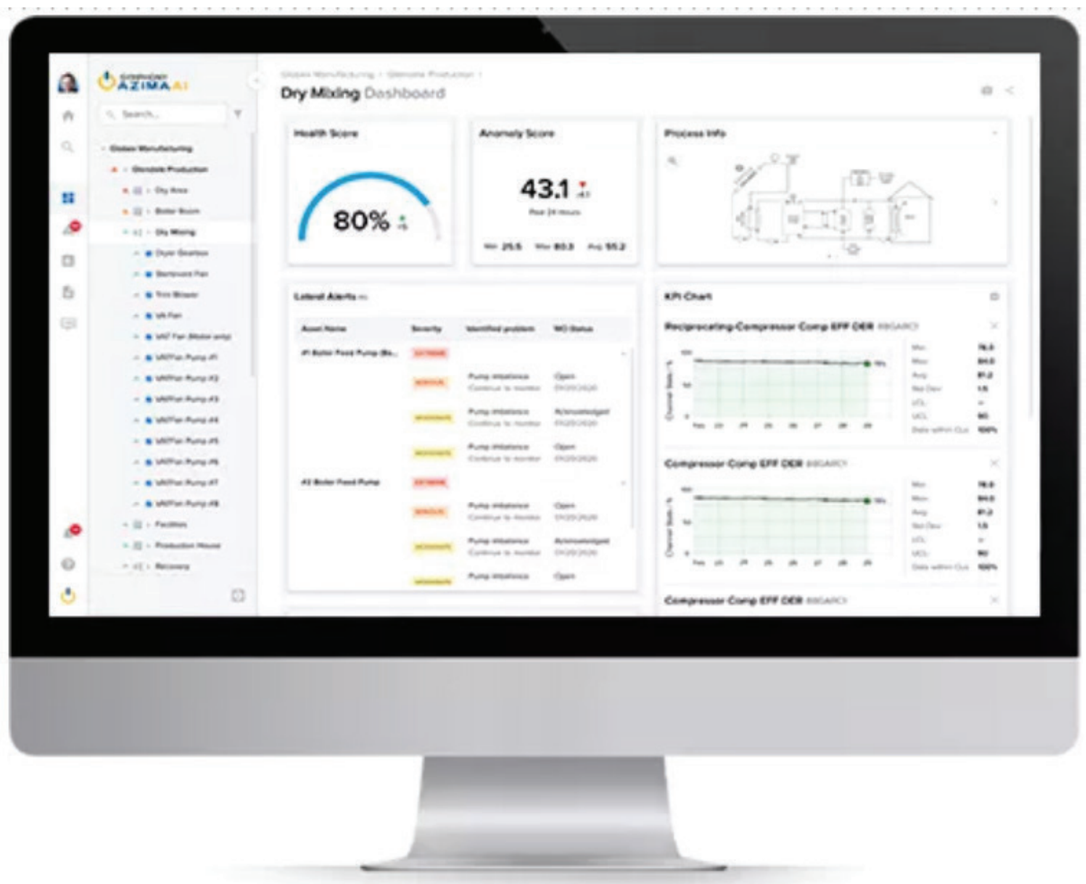
- Allows downtime to be proactively planned (rather than reactively) to breakdowns.
- Avoids many catastrophic failures.
- Saves significant costs from downtime/unplanned breakdowns.
- Reduces potential “domino effect/secondary” failures, which can be more expensive than the initial component failure.
- Creates a safer work environment, since many injuries occur when reacting to an unplanned downtime event.
- Provides peace of mind throughout the processing season – it is like an insurance policy.

Features:

- Monitors 30+ part types and provides status/alerts on hundreds of types of faults.
- Can be installed on any machine in the facility (Lummus or non-Lummus).
- System operates 24 hours/day, 7 days/week.
- Sensors are installed either with high-strength adhesive or through drilling/tapping.
- Sensors are completely wireless and connected through both Wi-Fi and cellular networks.
- Wireless Hubs are required for every 16 sensors and can be installed strategically to support sensor locations.
- The number of sensors required per machine will vary – for example, fans typically require three (3) sensors: one for each bearing and one on the motor.
- Based on the size of the motor, either one or two sensors may be required.
- The Predictive Maintenance System is monitored through a portal that can be viewed via phone, tablet computer or laptop computer.
- The customer receives “push” notifications, identifying the issue(s) with any machine, so that corrective action can be planned.
- System provides information on uptime/downtime, as well as whether the issue was related to installation, misalignment, or normal wear.



PM Sensors (2) installed on Fan Bearings



Lummus Predictive Maintenance Dashboard

System is accessible anytime and anywhere!

LUMMUS
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