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IN-HOUSE

CONDITION MONITORING

A Plant Services Special Report



Az AZIMA DLI hivatalos magyarországi képviselőjét a Delta-3N Kft. látja el.
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Case History

From Chaos to Calm with Azima DLI Methodology

The Conoco Phillips Ferndale plant needed a way to get away from reactive maintenance (run to failure) and move toward a more strategic, proactive approach to addressing machine reliability and uptime. The plant began the search for a vibration monitoring system, one that emphasized accurate and repeatable data collection and easy analysis. The team decided to hire a committed, on-site data collector to be involved with the entire program, from data collection to working with an outside vendor that would handle primary analysis. After reviewing available vibration monitoring solutions, Conoco Philips Ferndale selected the Azima DLI vibration data collector with ExpertALERT software. [Click here to read this success story](#)

Mobile Mindset: The latest reasons to hand out handhelds

Mobile computing is a technology that most plant managers, maintenance supervisors and technicians see as nice – maybe too nice – and unnecessary for their work. You’ve done alright for many years without it, so you must not really need it, and besides, it looks fragile, complicated and expensive. Don’t try talking that way at San Francisco Water’s West Bay Facilities, where tablet computers have been saving time on PMs for years. [Click here for article](#)

Operators use diagnostic data to optimize production and eliminate maintenance problems before they start

Equipment condition is monitored conventionally to avoid downtime, reduce repair costs and minimize consequential damages, but what happens when you shift the emphasis from reliability to productivity? Instead of predicting and planning maintenance work, condition-monitoring principles and technologies can inform operators directly, so they can make machine, process or operation adjustments, continue to run and maintain quality levels. [Click here for article](#)

Video

Condition monitoring methods and technologies

Plant professionals reveal their current and planned use of a range of condition monitoring methods. [Watch video](#)

Case History

Online vibration spectral data analysis helps mine keep critical equipment running

At a Canadian potash mine, a drum hoist, 19.5 ft. in diameter, rotating at 60 rpm, brings freshly mined material to the surface by raising and lowering two loading sleds. This is the only drum hoist at this mine location, and its performance is vital to the mine's operation. Azima DLI's online condition monitoring system is used to ensure the highest level of monitoring of the drum hoist's condition. The SpriteMax platform continuously captures and diagnoses potential faults from the machine's vibration spectral data. [Click here to read this success story](#)

White Paper

Triaxial Vibration Spectral Data: An Important Ingredient for Proper Machine Diagnostics



Correct diagnosis of rotating machinery mechanical faults depends on having complete information about the vibration spectral data. Since machines in general have three degrees of freedom of lateral motion, good science and logic suggest that data from all three axes will provide more information, if we can analyze it properly. The purpose of this paper is to demonstrate the improved diagnostic capability provided by collecting triaxial data compared to single axis radial data mixed with some axial data. [Click here for white paper](#)

Technical Paper

Predicting Maintenance Here and Now



The capability of today's predictive software provides immediate answers, not merely data. By proactively using predictive maintenance, one automobile manufacturing plant realized savings of up to \$112,000.

[Click here for article](#)



10 Ways PdM Improves ROI: Examples of Cost-Benefit Analysis for Condition Monitoring

Read how to prove the cost-effectiveness of a predictive maintenance program by learning how to identify the key items that boost the bottom line.

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