

Online oil condition monitoring solutions for critical equipment

# INDUSTRIAL PROCESSES

## REDUCE YOUR MAINTENANCE COSTS BY IMPROVING MACHINE RELIABILITY







### ONLINE LUBE OIL CONDITION MONITORING SOLUTIONS

### THE BEST PARTNER FOR SMART MAINTENANCE PROFESSIONALS

Customized solutions with optical technology for lube oil and critical machinery monitoring

Digital, precise, easy & real-time information for decision making

**30%** Reduce machinery maintenance + 20% - 60%

Extend equipment lifecycle **⊕ 30% - 70%** 

Extend the lube oil lifecycle

### ATTEN2 TECHNOLOGY

At **Atten2** we provide technological solutions and engineering services focused on reducing our clients' operational risk and monitoring their critical assets.

Our technology is based on optical sensors that allow the measurement of the condition of various fluids, especially lubricating oils, which allow us to know the **wear behavior** of the machines, by **particle counting** and **shape recognition** for **root cause analysis** and the **degradation** and **moisture** status of the fluids we monitor.

Our goal is to bring tangible value to our customers.

### IMPACT ON YOUR MAINTENANCE COST ANTICIPATING FAILURE 7 TIMES BEFORE ANY OTHER TECHNOLOGY



### **EASY INTEGRATION AND CONNECTIVITY**





# **INDUSTRIAL PROCESSES**

Reduces mechanical failures in gearboxes and air compressors by more than 50% by optimizing lubricant consumption. It measures operational risk in critical assets to obtain a significant reduction in catastrophic failures.





- Monitor the condition of the critical gearboxes
- Efficiently diagnose faults such as: fatigue, lack of lubrication, impact and corrosion
- > Optimize lubricant changes in critical gearboxes

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# Hydraulic systems

- Precisely diagnose problems of particle contamination in the hydraulic systems
- Significantly reduce control valve failures
- Optimize hydraulic oil lifespan by continuously monitor its condition
- Improve filtration systems with fluid condition monitoring



- Monitor information on turbine bearing wear patterns
- Enable monitoring of the risk of varnish generation
- Enable monitoring of generator bearing life
- Control the quality of new lubricant before supplying it to the turbine
- Thoroughly monitor the life cycle of the lubricant and optimize changes without compromising the effectiveness of the lubrication system



- Significantly reduce lubricant changing costs through continuous monitoring
- Accurately monitor compressor wear pattern
- Reduce failure incidences on positive displacement compressors
- Measure the impact of compressor operation on the condition of the machine







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