

Emerson's CSI 5200 Oil Analyzer Provides Improved Reliability and Significant Savings at Cartiere del Garda



RESULTS

- Saved thousands of euros with reduced use of lubricant oil
- Solved water contamination problem on continuous rolling machines
- Improved bearing reliability
- Experienced ROI in less than 12 months



APPLICATION

Continuous rolling machines, producing woodfree coated paper

CUSTOMER

Cartiere del Garda- Riva del Garda (TN), Italy

CHALLENGE

Cartiere del Garda, one of the leading Italian paper mills, produces high-quality woodfree coated paper for several applications. The company has targeted goals to maintain paper quality while reducing environmental risks. Cartiere del Garda hoped that by optimizing their assets, they would use fewer raw materials and gain higher efficiency in their process.

Over the last three years, Cartiere del Garda has been applying a comprehensive asset optimization strategy, focusing on predictive maintenance. "We wanted to improve the performance of oil analysis and were looking for an easy-to-use system that would provide comprehensive analysis in order to realize business results from its application" said Mr. Inama, Maintenance Accountant. Cartiere del Garda was looking for a condition monitoring technology that was simple, portable, and able to test both oil status and machinery health.

"Emerson's Technology is really easy-to use. We implemented the CSI 5200 in only a few days. We've received results that helped us solve technical problems and improve our efficiency."

M. Venier,
Maintenance Operator

SOLUTION

Emerson met the customer's expectations with the CSI 5200 Machinery Health™ Oil Analyzer. The CSI 5200 measures oil quality, system contamination, and machine wear and includes a digital viscometer to provide thorough and accurate detection of oil condition problems, wear particles and other contaminants. In addition, a microscope was added to the CSI 5200 to enable a complete wear debris analysis.

By using the CSI 5200, Cartiere del Garda's technicians detected water in a continuous rolling machine. They were able to quickly solve the water contamination problem and prevent additional corrosion, significantly reducing their use of lubrication oil. Based on the success of this predictive approach, CSI 5200 analysis was adopted in all lubrication circuits of the plant, including hydraulic motors. Cartiere del Garda also experienced improved bearing reliability by combining vibration analysis and oil analysis..

Cartiere del Garda experienced a Return of Investment in less than 12 months, based only on decreased lubrication oil usage. Use of the CSI 5200 has also improved machinery reliability and plant availability through continuous monitoring and early detection. By optimizing their assets and incorporating predictive maintenance, Cartiere del Garda also achieved their goals of reducing use of raw materials and environmental risk.

RESOURCES

Machinery Health Management

www.mhm.assetweb.com

CSI Technology

www.mhm.assetweb.com/technology/technology.html

Asset Optimization Services

www.mhm.assetweb.com/workprocesses/strategy.html



“We rely on modern technology that allows us to save money and resources. Emerson's Oil Analyzer provides all the expected results.”

G. Inama,
Maintenance Accountant

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