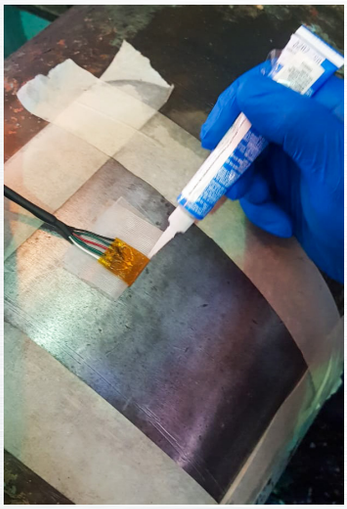
Newsletter

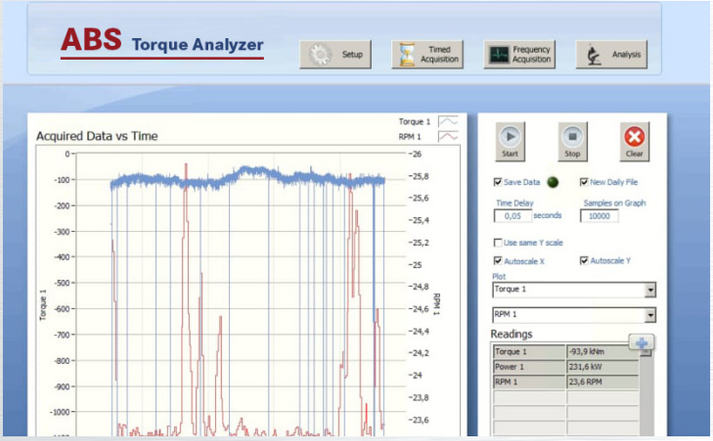
Atlantic Bearing Services *July 2019*

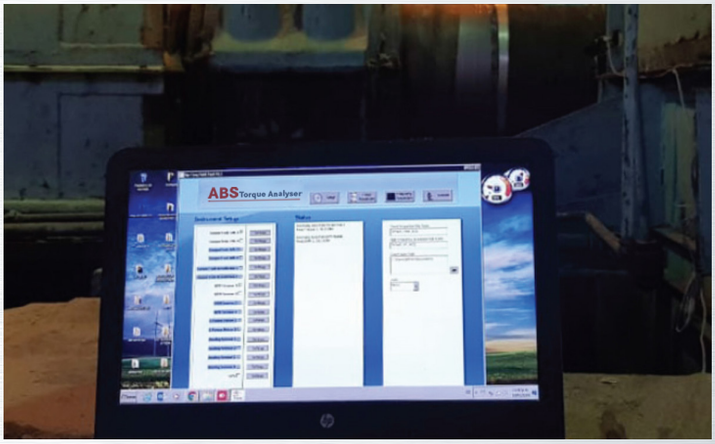
ABS
COSTA RICA
iQ Engineering & RYASA Groups

“New” Field real-time torque measurement engineering service

Atlantic Bearing Services is pleased to inform you that it has incorporated within its Engineering Service platform a real time in field torque measurement Service. This new service consists of real-time measurement of torque and power in mechanical power transmission systems with the latest portable technology. Strain gauges can be easily installed safely on the application, Battery bank supplies power and through the deformation of the gauges a wireless transmitter allows the system to collect precise Data. Mathematical algorithms process the information and displays tables and graphs for ease of interpretation.







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ABS service is applicable in multiple industries for customers who want to know the operational reliability of their equipment based on the rotating mechanical loads (torque and power) to which they are subjected.

Advantages

Portability and easy installation, no modification or disassembly of the machine is required.

Reliable and fast measurement, to which users can have remote access in real time from their mobile device or computer.

Robust system, capable of working in almost any type of environment or application.

The system provides clear and reliable results for decision making. Data storage devices with virtually unlimited capacity.

ABS engineering support with elaboration of personalized final report with the results, conclusions and practical recommendations emanating from the measurement.

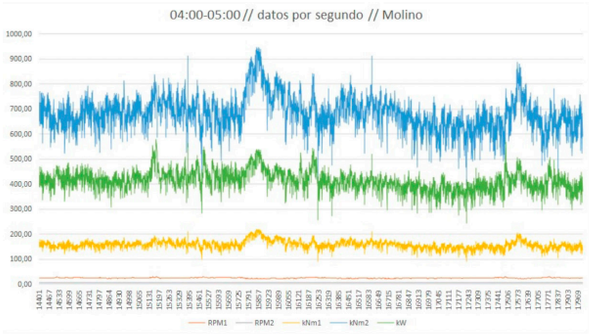
In Field Experience

Central Sugar Mill Tempisque

In March 2019, Atlantic Bearing of Costa Rica had the opportunity to support its CATSA client with the torque measurements of the # 2 and # 6 Sugar Mill. The client's main interest was to determine the torque and power conditions in its cane mills, driven by steam turbines it is difficult to determine the power and torque in its mechanical transmissions. This customer needed reliable information to determine the power consumed and the torque acting under the real operating load in the mills, for years they had problems of mechanical breakdowns in the main transmissions in the milling line.

Results Obtained

Thanks to these measurements, our client was able to determine the average power consumed, average minimum/maximum power consumed during operation, the power consumed per ton of fiber and the fluctuation of power and torque in the application. The measurements allowed efficient decisions making regarding capabilities, safety, and service factors necessary to ensure the reliability of the equipment installed and to be installed. Also, it was possible to optimize the settings of the mill's power consumption.



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