CASE STUDY

Technological Developments, New Life Cycle and Automation for Old Equipment

The crude oil pipeline system covers more than 14,000 km across Brazil, with more than 48 terminals and pumping stations. The pump that was retrofitted, RP 37 ee+ee model, was manufactured by Sulzer UK and operates in São Sebastião terminal in the duct system, pumping light crude oil.

The challenge

In this case we had a plan for the sealing compound, which had been showing constant leaks, contaminating the environment and bringing losses for corrective maintenance.

The solution

The equipment has been fully reviewed and engineered for new technologies. Double mechanical seals were installed with plan API 31/52, and the pump and its peripherals (oil lubricating unit, seal, motor) received instrumentation for operation control and maintenance of the latest technology. In this case there was no better solution than to modernize the equipment and automate it for remote operation.

The Sulzer difference

Always seeking benefits for the customers, Sulzer uses a motivated and qualified team to innovate and improve the quality of their new products and equipment that are already in operation in the field.

Customer benefit

With the evolution of the components and methods of online monitoring of rotating equipment, new technologies benefit the methods of predictive and preventive maintenance, and tend to eliminate corrective maintenance. The alternative to monitor all equipment and various terminals via a single operation and maintenance center is available today. Among many benefits, there is the possibility to control the whole system from a control room. We can say that we have “new” equipment, and best of all with a small investment.

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Applicable markets
Customer support services, HPI, oil and gas

Applicable products
Retrofit, automation