rexroth
A Bosch Company

Buderus Guss decides for an extensive service package and minimizes failure risk of the hydraulic system.

Condition-based maintenance in mold casting

Automotive suppliers are under enormous pressure. Extraordinary production downtimes cause high costs. This is even more so if the production processes are geared as closely as with Buderus Guss GmbH. With the Bosch Rexroth ODiN service package, Europe's leading brake disc manufacturer Buderus Guss relies on condition-based maintenance.

Predictive maintenance with ODiN by Bosch Rexroth

With ODiN (Online Diagnostics Network), Buderus Guss has decided in favor of an extensive service package. The included services range from the initial consulting to the conception and installation of the measurement technology including control cabinet and perfect cabling. ODiN uses the interaction of sensor technology, cloud-based applications and machine learning methods in order to identify critical errors or significant changes as compared to the normal operating condition already beforehand, to warn of a probable failure at an early point in time, to evaluate the presumable life cycle and to warn the customer in case of irregularities and to make maintenance recommendations.

At least 50 percent time saving

One did not have to wait long for the first practical test for the new system in one of the five fully automated vertical molding plants: The Rexroth Service reported a critical deterioration of the MHI (Machine Health Index) due to an increase in the pump vibration. After the on-site examination, the preparation of the maintenance works for the pump exchange on the weekend has been initiated. As compared to the emergency repair in case of an unplanned failure, the planned pump exchange is shortened by at least 50 percent from about eight to four hours.

Challenge

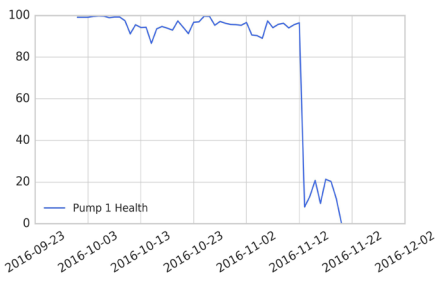
Ensure high technical system availability through predictive maintenance.

Solution

Predictive maintenance of the system by Bosch Rexroth, in order to identify potential hydraulic failures early.

Result

"Thanks to ODiN, we are finally able to evaluate the current condition of the system regardless of the location. The pilot project was really a precision landing."



Solved with

- ODiN (Online Diagnostics Network)

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