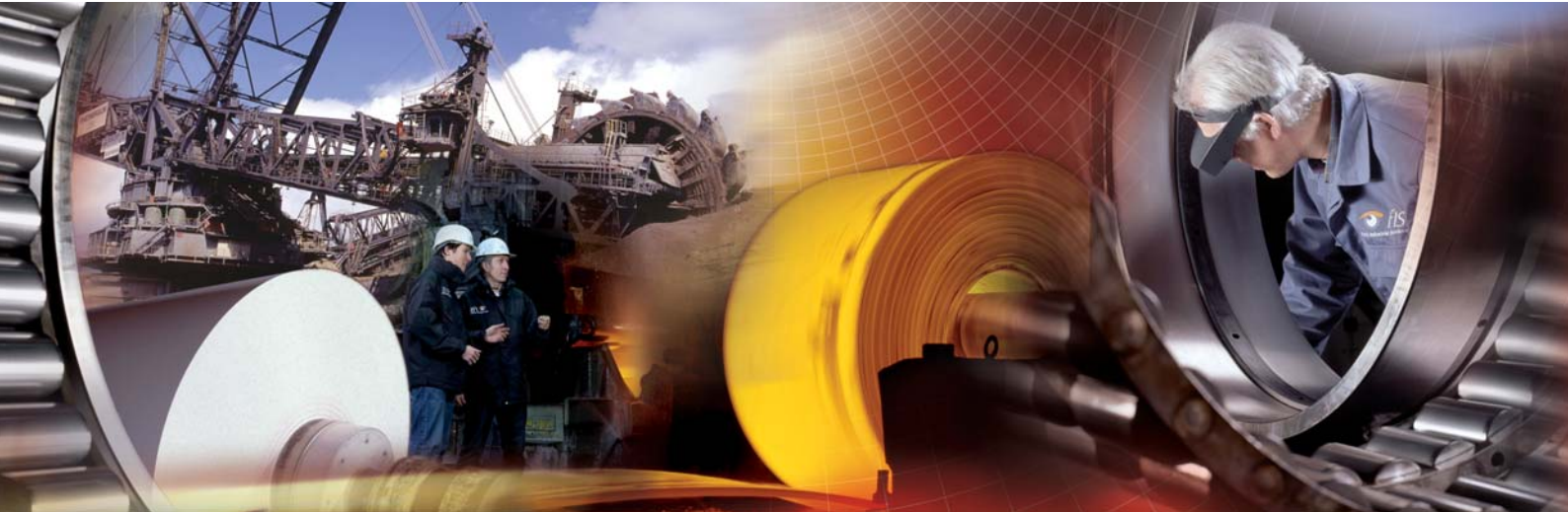


Smart Performance Program



Offline Condition Monitoring with FAG Detector III on Offshore Ships

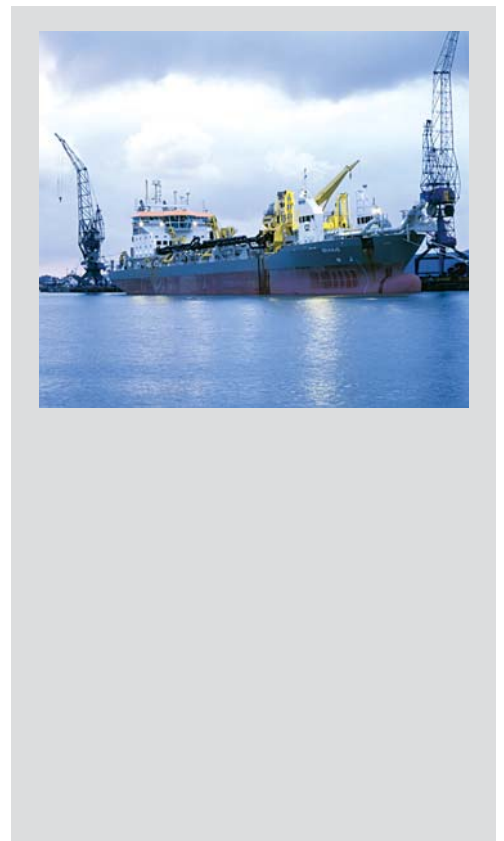
Industry: Shipbuilding

Customer

The company owns and operates a technologically advanced fleet of offshore support vessels servicing oil and gas companies nationally and internationally. In total it runs a diversified fleet of 15 vessels.

Challenge for Schaeffler

The customer reported an unexpected failure of a bearing of a ship's main generator. The repairs took three days and incurred significant costs for the customer, including lost revenue, fines from its own customers and docking fees. Up to this point, the customer was not using any form of vibration monitoring.



Schaeffler Solution

The FAG Detector II was presented to the customer and tested. The customer additionally asked about balancing and was informed about the upcoming launch of the FAG Detector III. Finally, the customer ordered 15 units of the FAG Detector III without ever seeing the device. Moreover, the deal included two training sessions for the chief engineers on each ship, a sample remote services fee for each ship and the sale of five FAG induction heating devices of type 35.

Customer Benefit

- Monitoring of the critical bearings on board of the ship provides the customer with enough advanced notice to schedule downtime to replace bearings and correct other problems before they incur a significant expense
- The initial failure cost the customer approx. 150,000 Euros whereas the price of equipping all the ships with the Detector III was less than half this amount
- The customer benefits from products, services and training from one source

What's special

Shipping offers opportunities all over the world and supports every market segment. Due to high costs, such as port fees, any delay in port or return to port causes significant costs. Monitoring enables even small shipping companies to minimize their unscheduled downtime.

Technical Information about the Solution

Monitoring systems:

First:

FAG Detector II with FAG Bearing Analyser Software

Later:

FAG Detector III

Monitored components:

Generator bearings on board

Vibration data analysis:

FIS teleservice



Contact details for worldwide contact persons as well as further

Smart Performance Solutions can be found on our homepage

www.smartperformanceprogram.com