

F'IS Newsletter

July 2009



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F'IS monitors Germany's Largest Luxury Liner

At the propulsion systems of the Celebrity Solstice, the largest cruise liner ever built in Germany, Schaeffler Groups latest bearing technologies as well as monitoring solutions of F'IS are used. To ensure the availability of both ABB Marine's Azipod propulsion systems, an FAG DTECT X1 device is installed on each propulsion system. Measurements with these devices during the shakedown cruise and pre-commissioning endoscopy measurements documented the outstanding bearing condition after mounting. Furthermore, since the maiden voyage end of 2008, the FAG DTECT X1 devices monitor the propulsion bearings continuously. The recorded vibration data are sent to F'IS for weekly analysis. In case of irregularities ABB receives a detailed report. Thus, necessary repairs can be planned in advance and travel dates can be observed.



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Greater Production Reliability on Oil Platforms

An international operating manufacturer of ship propulsions and maritime solutions uses the FAG DTECT X1 to avoid bearing damage and gear failures in the propulsion of oil platforms (thruster). A propulsion failure is extremely costly as oil production may have to be stopped completely for the repair work. Thanks to the use of the FAG DTECT X1 the customer always gets detailed information about the condition of the thrusters. Damage is detected at an early stage and serious failures and enormous costs are prevented. Avoiding a total loss can save the company up to 10 million Euro. Also, the overhaul intervals required by insurance companies were to be extended from five years to up to ten years with the help of the condition reports provided by the system. The customer uses this as an additional sales argument, which gives the company a competitive edge.



[More info \(click here\)](#)

Emergency Repair Avoids Long Downtime in Power Plant

Due to the fast help of F'IS, the operating company of a power plant could avoid a downtime of several weeks. The breakdown of an air preheater caused a shutdown of one of two power plant units. This led to a production capacity reduction of 50 %. As a spherical roller thrust bearing was not available shortly, the customer decided to overhaul the bearing. The reconditioning work, which – due to the extent and severity of the damage – turned out to be quite extensive, was carried out within 16 hours and overnight. Only 24 hours after dismantling, the bearing was delivered back to the customer, serviceable again. The costs of the F'IS service were remarkably lower as the downtime costs that would have occurred otherwise. Those would have been a six-digit amount.

**Any questions?
Get in touch with us ...
We'll be pleased to help!**

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