

F'IS Newsletter

September 2007



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Balancing Work in Oil Tanker

A shipping company consulted the F'IS experts after two of their unloading pumps had failed. They carried out measurements with an FAG Detector III and detected imbalances of the fan impellers in two extraction fans. The imbalances were eliminated with the help of the FAG Detector III and the FAG Balancing Kit, and the unloading pumps were restored to working order. So the customer can now pump out the crude oil without delay, saving additional costs in the order of approx. € 300,000 per day. Moreover, they now have detailed information about the condition of the examined bearings.



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

Monitoring of Sewage Plant

The pumps and pump drives in a sewage plant are of critical importance for the sewage treatment process and therefore must always be ready for operation. In order to obtain detailed information about the condition of these components and to acquire their own know-how in this field, a sewage association consulted the F'IS experts. They recommended a package comprising one FAG Detector III and a twelve months support program. The customer's personnel then underwent a custom-tailored training that qualified them for the new task within a year. During this period, the F'IS experts provided support both in carrying out the measurements and by analysing the measured data. In this way, the customer both ensures that its personnel has the optimal qualification for the new task and obtains detailed information about the condition of the machines that are critical for the process.



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

Detection of Bearing Damage at Roll Stand

When carrying out routine measurements on the drive train of a rolling stand in a steel mill, the F'IS experts detected signs of an inner ring damage in the frequency pattern for one of the bearings in the speed reducer. In order to be able to assess the severity of the damage more accurately, the bearing was also examined by means of endoscopy. The results showed that distinct wear had developed in the bearing which in turn had caused minor spalling in the raceway and in the rolling elements. As the damage had not yet progressed so far that the bearing has to be replaced, measurements are now being conducted at regular intervals. In this way, the customer can rest assured that the bearing's service life can be utilised as fully as possible and that the bearing will not cause any costly production disruptions (up to € 60,000/h).

**Any further questions?
Get in touch with us...**

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