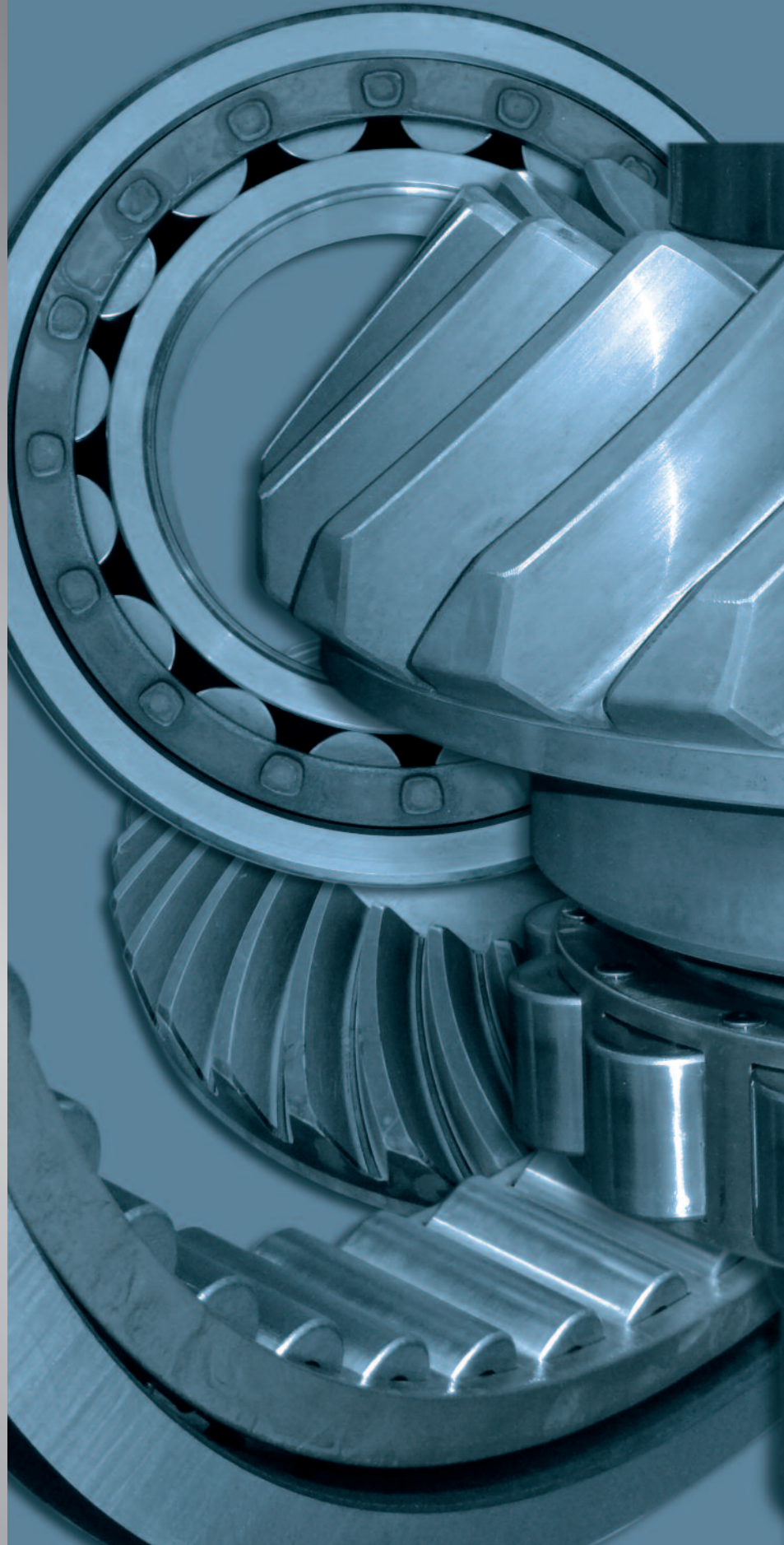




YOUR PROPULSION EXPERTS

SCHOTTEL S-COM CONDITION MONITORING FOR ENHANCED PREDICTIVE MAINTENANCE

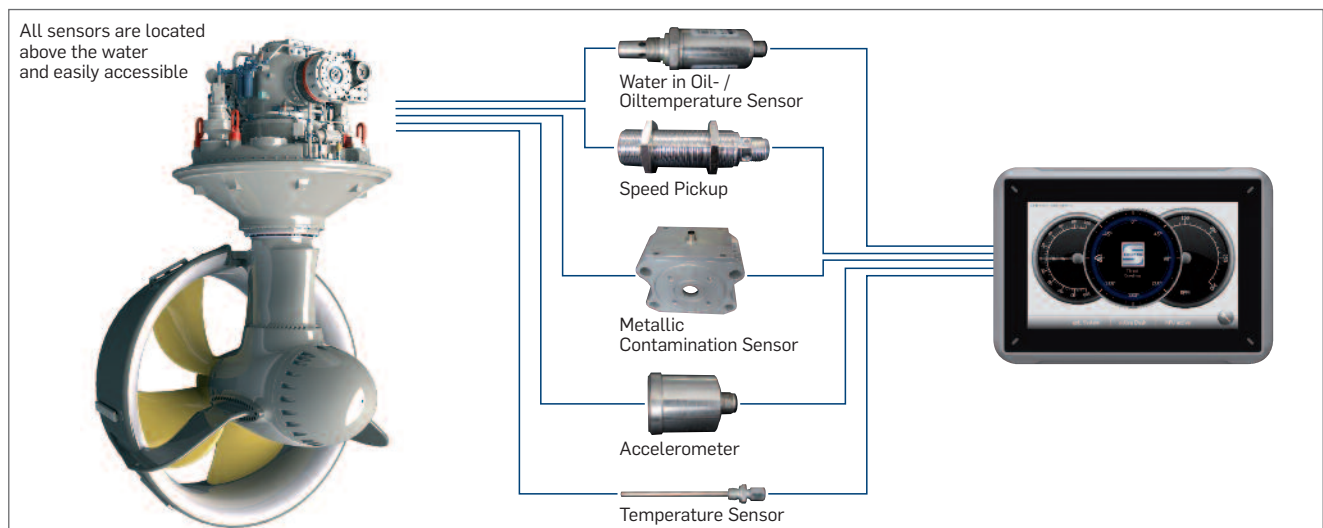


SCHOTTEL CONDITION MONITORING S-COM

The SCHOTTEL Condition Monitoring System (S-COM) is used to measure various machine parameters of SCHOTTEL propulsion systems. All measured values are recorded in a data logger aboard the vessel.

S-COM is designed to the needs of the shipping industry. The conditions of a ship are taken into consideration. The S-COM sensors, for example, are located above the water and are easily accessible for service staff.

SCHOTTEL offers planning, configuration and implementation of the system. We will keep you up to date with a tailor made report on all important machine conditions.



current

- Maintenance in regular fixed intervals
- Unexpected repair in case of damage



- Dismantling even if not required
- Well running systems are touched
- Short-term planning of docking times
- Short-term, unexpected staff assignment
- No information on operating conditions such as temperatures or saturation of water in oil



SCHOTTEL S-COM monitoring of the following values:

- input speed of thruster
- steering angle
- load
- vibration
- temperatures
- saturation of water in oil
- particles in oil
- operating hours

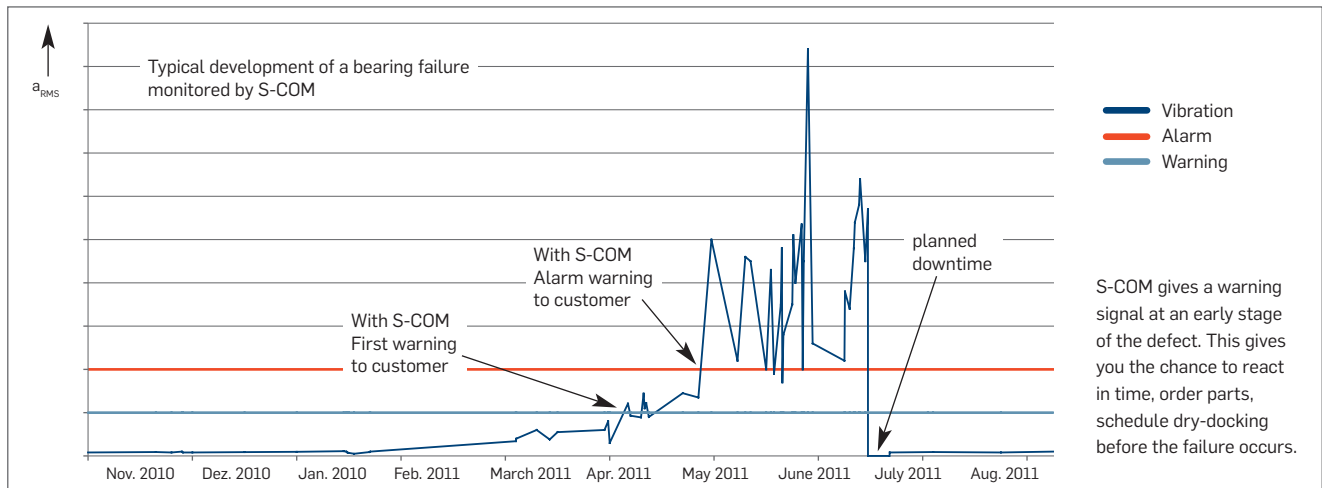
with S-COM

- Condition based maintenance
- Detection of damages in an early state



- Dismantling in case of indication of wear / damages
- Well running systems are not touched
- Improved planning of docking times, better coordination with yard / owner
- Increased knowledge of operating conditions due to recording of data like speed, load, steering angle

ENHANCED PREDICTIVE MAINTENANCE



Each rotating part (e.g. a bearing) in the unit creates specific frequencies. Any change in these frequencies can give evidence to wear or possible damage, which can then be detected at an early stage. Having this information available you will have the time for comprehensive planning and adequate action.

Particles in oil are always an early indication of wear. Our permanent analysis enables you to identify the machine conditions. Monitoring the water content can also help you to detect damage to seals possibly caused by foreign objects such as fishing ropes, etc. A report will provide you with all important data you need to keep your thruster in perfect condition. This will give you enough time to react before anything becomes critical. Together with SCHOTTEL the necessary action can be planned and executed.



PSV BOURBON MISTRAL
2 x SCHOTTEL Combi Drive Type SCD 2020 (2200 kW each)



128 T BP OFFSHORE TUG LUZ DE MAR
2 x SCHOTTEL Rudderpropeller Type SRP 3040 CP (3840 kW each)



DOUBLE-ENDED FERRY BERGENSFJORD
4 x SCHOTTEL Combi Drive Type SCD 2020 (2750 kW each)

Pictures are showing selected ships with SCHOTTEL S-COM

PROFESSIONAL PARTNERSHIP – THROUGHOUT THE VESSEL'S LIFE

As a SCHOTTEL customer, you benefit from individual, in-depth advice and support at all stages of a project, from planning and commissioning through to preventive maintenance.

A dense worldwide service network is ready to offer assistance and ensures the swift supply of spare parts – along with experienced SCHOTTEL technicians if required.

The name of SCHOTTEL traditionally stands for quality in engineering, with over 90 years of experience in design and the precision workmanship of a family-owned enterprise. Our innovative propulsion systems are a byword for reliability and high performance and set standards in global shipping.

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