TAKING SERVICE TO THE NEXT LEVEL

Digital products and services open up numerous possibilities for optimizing ship operations—whether for tugs, ferries or offshore supply vessels. SCHOTTEL experts present new solutions and explain how operators can benefit from them in their daily work

The digital products connect the systems on the vessel to the shore: "Basically, we are creating a virtual image of the propulsion system on land, thus providing insights into the propulsion system. This information can then be used to plan operational and strategic deployments better," explains Alexander Neideck, Product Manager Automation & Digital Products at SCHOTTEL.

MORE DATA FOR BETTER DECISIONS

SCHOTTEL MariHub is the modern hub for data collection, processing and evaluation directly on board the vessel: the system records and analyzes signals from sensors, machines and other components. In addition, MariHub functions as a fault monitoring system: the signals are continuously recorded and stored, and warnings and alarms are generated if a limit value is exceeded.

MariHub performs a large part of the analyses independently on board and generates messages based on common process and measurement values. These values can be viewed by means of an integrated control panel on the MariHub system or are sent automatically to the IoT platform MariNet via an encrypted connection. If there is no stable internet connection, the cached data can be transferred automatically or manually at a later time.

Stefan Buch, Vice President After Sales Service at SCHOTTEL: "For our customers, the focus is on safe, reliable and economical operation

during the vessel's entire service life. We contribute to this with our data analyses which, in turn, provide the needed information and recommendations for taking corresponding action."

INSIGHTS IN REAL TIME

Operators benefit from further applications when using SCHOTTEL's own MariNet platform. ProData, the integrated IoT service, allows the data collected by MariHub to be viewed online from anywhere. It provides information on the operation conditions and equipment status and helps to identify optimization potential. The processed data can be used for planning the strategic deployment and development of the entire fleet, which helps to maximize the potential of the vessels.

CONDITION-BASED MAINTENANCE

ProCMS, the condition monitoring service for SCHOTTEL propulsion systems, ensures that

ON LAND, operators are able to access their vessels' data.

ON BOARD, an intelligent algorithm continuously monitors the status of the propulsion unit.

AT SCHOTTEL, the data is evaluated by certified analysts.

MAINTENANCE can be carried out based on the condition of the propulsion system.

downtimes are as short as possible and can be planned. An algorithm monitors the latest measured values 24/7 and notifies at an early stage if there are any acute signs of wear or damage to specific components. This minimizes the risk of consequential damage.

Certified SCHOTTEL experts such as Markus Wilbert, Team Manager Service Technical Support, continuously monitor the results: "We analyze the data, constantly adjust limit values and regularly prepare measurement reports. This allows us to make condition-based maintenance recommendations at any time. In this way, we make sure that maintenance is carried out at the right time." The created condition reports are the basis for planning dry-dock maintenance better.

SOLUTIONS FOR ALL VESSELS

Besides the permanently installed MariHub monitoring system, the SCHOTTEL range also includes VibCheck, a mobile system for evaluating the condition of the propulsion system. SCHOTTEL service engineers carry out vibration measurements on the vessel's installed units using a portable measuring device. This measurement data is transferred manually and analyzed by experts. The results enable more targeted maintenance planning and spare parts logistics, especially for older vessels.

Regardless of whether it is a new vessel or has been in operation for years: SCHOTTEL digital services offer a wide range of benefits that can improve troubleshooting, strategic maintenance planning or optimize fleet management.

MORE INFORMATION:

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