Intelligent wear and condition monitoring with RENK expertise for greater availability and minimized life-cycle costs

Decisive advantages
• Continuous condition monitoring
• Early detection due to automatic alert
• Projectable maintenance / extended maintenance intervals
• Efficient spare part management
• Integration into ship control system via standardized interface
• Intuitive handling and clear visualization
• Possible onsite trend and in-depth analysis
• Extended life-cycles
• Enhanced availability / reliability
• Reduced life-cycle costs
• Support by RENK expertise

The philosophy
RENK VIB-Monitor is an extensive state-of-the-art condition monitoring system. Smart machine management supports the equipment operator, preventing damages and facilitates economical maintenance planning.

Features
• RENK VIB-Monitor collects and saves data in predefined intervals or event-driven
• Interval storage with pre-trigger function
• Bidirectional data communication with external controller possible
• Intuitive visualization and analyzing software
• Fully automated and informative alerts with alert history
• Internal calculations for source finding
• Data transfer via external data storage
• Handling of different signals by extendable hardware
• Exact simultaneous data sampling in a frequency range between DC and 40 kHz

What is the RENK VIB-Monitor able to do?
• Continuous observation of all major parameters of driver, couplings and gearboxes
• Recording, saving and analyzing with intuitive software
• Simple integration with standardized communication interface
• Support via extensive and intuitive visualization
• Optional support by clearly represented RENK reporting

Monitoring range
• Antifriction and slide bearings
• Shaft
• Meshings
• Pumps
• Couplings
• Driving peripheries

Monitored process parameter
• Shaft displacement
• Casing vibration
• Torque
• Speed
• Operating parameter
• Temperature
• Pressure

Analysis tools
• Frequency spectra
• Envelope spectra
• Trend
• Orbit
• Polar plot
• Pretrigger
• Contour plot

Reporting
Content
• Brief abstract about gearbox condition
• Measurement position overview with condition indication
• Trend measurement of bearing temperatures, shaft vibration, torque
• Gearbox vibration evaluation according to several measurement modes
• Vibration analysis of built-in and electrical pumps
• Diagnosis of all abnormalities and recommendations

Features
• Invariable report structure due to easier understanding
• Widespread information of all measurements
• Analysis and explanation of all events
• Prediction for emerging damages (traffic light indication)
• Recommended approach
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