PRODUCT GUIDE

Wärtsilä
Sea-Master system

COMPLIANCE. BUILT IN.
Connecting to the future

A new platform to transform tail shaft asset management. Digital data and system support delivering complete engineering visibility to future proof your performance and compliance.

Connect the dots, whatever the challenge. The Wärtsilä Sea-Master system is a platform that is transforming tail shaft asset management.

Remote digital monitoring of tail shaft systems performance, delivers unprecedented levels of data, while a range of support and consultancy services helps you make informed decisions to optimise operations.

This groundbreaking platform also enables you to meet environmental legislation today and tomorrow, extending the maintenance intervals for water lubricated systems.

That means a lower cost of ownership, enhanced performance and greater control.

Fig.1  A platform offering the following stern tube solutions

- Condition monitoring
- Water quality system with condition monitoring
- Water Quality System (WQS)
- Data analysis
- Oil lubricated systems requiring condition monitoring
- Alignment services
Meet environmental legislation

The Wärtsilä Sea-Master system helps you meet the increasing industry focus on environmentally friendly service.

Across the industry there is increasing demand for inherently environmentally friendly technology.

With a water lubricated stern tube and condition monitoring, the Wärtsilä Sea-Master system helps you meet the requirements including TMON legislation, bringing the added benefit of an extension on tail shaft removal.

Meet DNV-GL TMON requirements for unlimited intervals between tail shaft withdrawal surveys.

Gain approval in principle for TMON (closed loop water) and TMON (open loop water) notations.

Ensure full predictability during operations

Integrated service solutions to share data analysis beyond the ship’s engine room, gives you future visibility and control.

By seeing the long-term trends in your tail shaft performance, you can make informed and robust decisions. With fully visible long-term performance data that can be shared beyond the engine room, the Wärtsilä Sea-Master system lets you identify long-term trends and introduce preventative maintenance predictability.

• Analyse and optimise durability and long-term wear rates of the shaft line components.
• Access operational patterns and trends through time for better understanding.
• Customise data analysis outputs to suit your individual maintenance plans.

Extend tail shaft reliability

Monitoring and consulting services enable you to better manage your asset and improve reliability.

To optimise the reliability of your tail shaft, you need to know the performance data, what that data means and what actions to take.

The Wärtsilä Sea-Master system delivers a range of condition monitoring information along with data analysis and consultancy to enable you to have confidence in the ongoing performance of your asset.

• Gain true visibility of your operational data to better manage the tail shaft.
• New build and retro fit applications available, so you can maximise performance and return from your asset.
• Analysis services enable you to interpret long-term data and enhance performance reliability.

Reduce your total cost of ownership

Gain greater insight to optimise long-term operations and reduce total cost of ownership.

Ensuring your tail shaft is operating with optimum efficiency can introduce compelling cost savings. The Wärtsilä Sea-Master system brings you discrete data to help improve operational running, bringing down the total cost of ownership.

• Extend tail shaft maintenance withdrawal intervals for water lubricated systems.
• Save costs with reduced dry docking scope of work activities and better predictive maintenance planning.
Wärtsilä is a global leader in complete lifecycle power solutions for the marine and energy markets. By emphasising technological innovation and total efficiency, Wärtsilä maximises the environmental and economic performance of the vessels and power plants of its customers.

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