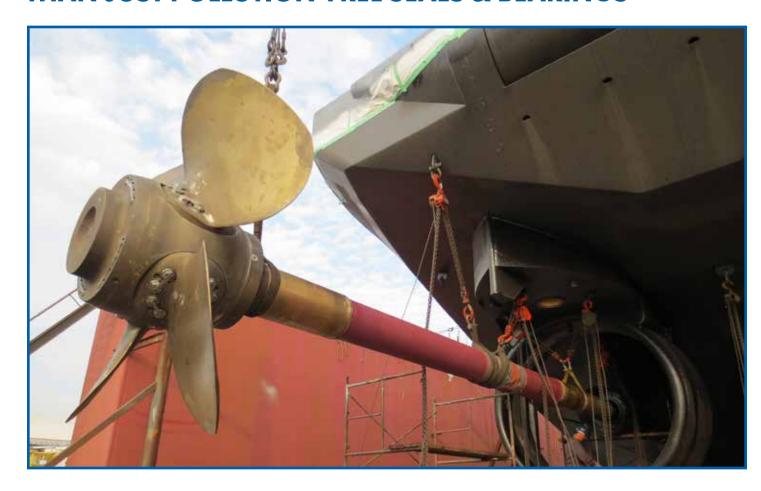


THERE IS MORE TO THORDON BEARINGS THAN JUST POLLUTION-FREE SEALS & BEARINGS



With the help of our experienced Global Service and Support (GSS) Team's Shaft Alignment Services, Thordon provides a one-stop-shop maintenance, installation and commissioning solution for ship owners.

For vessels experiencing vibration problems or other alignment issues, Thordon's GSS team can be deployed to provide onsite shaft line investigation and measurement services to determine the loads on the bearings. This includes in depth modelling of the shaft line, and analysis of the stresses placed on the bearings.

Thordon's GSS team will complete the installation of strain gauges and Thordon's engineering department will do the analysis and determination of bearing loads in order to optimize load distribution.

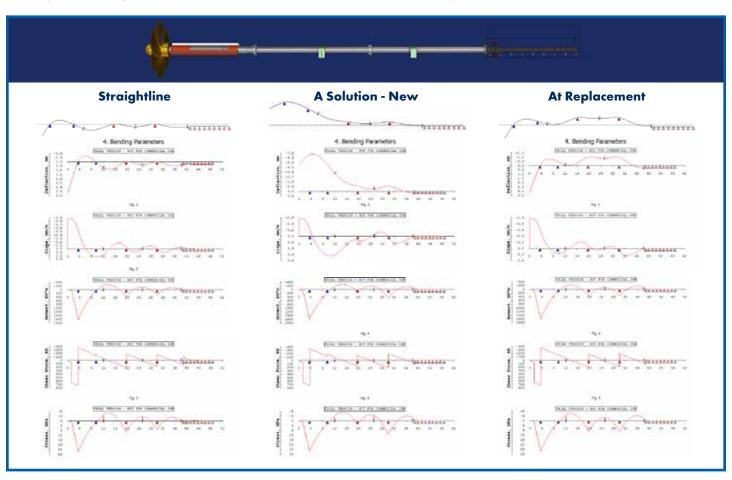
Using advanced computerized modelling of the shaft line, GSS teams can also work with ship owners to facilitate classification submissions for the approval of oil-to-water conversions and for meeting extended shaft withdrawal notations.

Thordon's GSS team will provide computerized modeling of the shaftline for:

- Newbuild Plan Approval submission to Class Societies
- Submission to Class Societies for Oil-to-Water conversion of the COMPAC propeller shaft bearing system
- Submission to Class Societies for new and worn conditions for Shaft Withdrawal Extension notation.

Computerized modeling includes:

- Production of computational model of shaftline
- Bending and stress analysis of shaftline
- Review of bearing heights for optimization of load distribution
- Dynamic analysis of shaftline for determination of vibration critical speeds.



On-Site Optical Measurement / Investigation

Our GSS team will be on-site to:

- Oversee and analyze optical measurements (telescope or laser)
- Determine bearing loads from 'jacking' tests

These in conjunction with computational shaftline modelling provides for the determination and optimization of bearing loadings.





About Thordon's Global Service & Support Team



With a global service network operating 24/7 in more than 100 countries, Thordon Bearings' GSS team can install, commission, service and maintain the full range of Thordon Bearings' environmentally-safe propeller shaft, rudder, deck and shaft line products.

Contact **Thordon's Global Service & Support Team** today to find out more about our Shaft Alignment, and other services we offer for ship owners:

service@thordonbearings.com

Thordon Bearings is the leading manufacturer of seawater lubricated propeller shaft bearings, grease-free rudder bearings, deck equipment bearings, shaft coatings and shaft seals for the global marine market. Fitted to over 2000 ships, Thordon's systems eliminate oil leakage from stern tubes (no pollution risk), provide excellent operational and bearing wear performance as well as offer lower in-service costs.

Your Authorized Thordon Distributor



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