COMPAC Ship Owner Benefits

Cost Savings
The COMPAC seawater lubricated propeller shaft bearing system offers significant cost savings as seawater is used as the lubricant. There is no aft seal, no storage of oil, no sampling of oil, no disposal of oil, and no risk of seawater ingress contaminating the oil. Compared to synthetic EALs that are 500 - 1000% more expensive than mineral oil, seawater is free and recommended by the U.S. Environmental Protection Agency to meet Vessel General Permit requirements. Emergency aft seal repairs are not required, as there is no aft seal.

Compliance Operation
Recently, both LR and BV have modified rules for seawater lubricated propeller shaft systems, allowing the shaft to remain in place if monitoring conditions are met. Thordon’s COMPAC system ensures shipowners that there will be no environmental violations resulting from stern tube oil leakage and meets both U.S. VGP and Polar Code regulations guaranteeing zero risk of pollution.

COMPAC Seawater Lubricated Propeller Shaft Bearing System

Your Authorized Thordon Distributor

COMPAC For Life

CUSTOMER FOCUSED TO QUICKLY MEET YOUR NEEDS
Quick and Responsive Service
Thordon Bearings is geared to responding quickly to new shipbuilding, repair and conversion projects. Thordon bearings arrive quickly, fit right and last!

Extensive Distribution Network
Thordon Bearings has an extensive distribution network to support our global customer base. There are over 2000 ship references throughout the world and over 2500 suppliers in 45 countries across 6 continents, including the U.S.A. Thordon’s products are also used in over 100 countries, backed by large regional and head office inventories. Non-standard requests are met with responsive design, quick machining and speedy delivery.

Application Engineering
Thordon engineers work closely with customers to provide innovative bearing system designs and solutions. We offer product design, CAD and the proprietary Thordon Bearing Sizing Program to help ensure our bearings last. Our decades of experience mean that we offer the right technical support during design, machining, installation and operation.

Manufacturing Facility
Thordon Bearings is an industry leader in the design, manufacture, supply and installation of high performance marine bearing systems.

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Eliminate emergency dockings
Polar Code compliant
Eliminate aft seal problems
Fewer components
Cost Savings
- The COMPAC seawater lubricated propeller shaft bearing system uses seawater as the lubricant. There is no aft seal, no storage of oil, no sampling of oil, no disposal of oil, and no risk of seawater ingress contaminating the oil.
- Compared to synthetic EALs that are 500 - 1000% more expensive than mineral oil, seawater is free and recommended by the U.S. Environmental Protection Agency to meet Vessel General Permit requirements.
- Emergency aft seal repairs are not required, as there is no aft seal.

Compliant Operation
- Recently, both LR and BV have modified rules for seawater lubricated propeller shaft systems, allowing the shaft to remain in place if monitoring conditions are met, making the COMPAC system comparable to oil lubricated propeller shaft bearings.
- Thordon’s COMPAC system ensures shipowners/operators that there will be no environmental violations resulting from stern tube oil leakage and meets both U.S. VGP and Polar Code regulations guaranteeing zero risk of pollution.

COMPAC SEAWATER LUBRICATED PROPELLER SHAFT BEARING SYSTEM
Your Authorized Thordon Distributor

COMPAC Ship Owner Benefits
- Reduce operational costs
- Eliminate oil and problems
- Eliminate emergency dockings
- Fewer components
- Zero environmental impact
- Polar Code compliant
- Meets U.S. VGP requirements
- Over 2000 ship references

Controlled Bearing Environment
- Thordon’s COMPAC seawater lubricated propeller shaft bearing system ensures an adequate supply of clean water is consistently being delivered to both the forward seal and stern tube bearings. Lubrication of the bearing is assured and a long predictable bearing wear life is achieved.
- Thordon’s COMPAC is much lighter than white metal bearings and can be fitted quickly and easily by freezing in liquid nitrogen or dry ice.

Quick and Responsive Service
- It takes quality products to be globally successful in the marine bearing industry. It also takes great service to keep customers coming back. Thordon Bearings is geared to responding quickly to new shipbuilding, repair and conversion projects. Thordon bearings arrive quickly, fit right and last!

Easily Machined and Fitted
- Thordon COMPAC machines cleanly and produces no airborne machining debris.
- Thordon COMPAC is much lighter than white metal bearings and can be fitted quickly and easily by freezing in liquid nitrogen or dry ice.

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Zero Pollution | High Performance | Bearing & Seal Systems
A Thomson-Gordon Group Company - Innovating since 1911
3225 Mainway, Burlington, Ontario, Canada L7M 1A6
Tel: +1.905.335.1440 Fax: +1.905.335.4033
Email: info@thordonbearings.com
Website: www.ThordonBearings.com

COMPAC For Life

Thordon COMPAC seawater lubricated propeller shaft bearing system

Thordon COMPAC allows you to:
- Eliminate emergency dockings
- Polar Code compliant
- Eliminate aft seal problems
- Fewer components

COMPAC SEAWATER LUBRICATED PROPELLER SHAFT BEARING SYSTEM

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COMPAC SEAWATER LUBRICATED PROPeller SHAFT BEARING SYSTEM

**Aft COMPAC Bearing System**
- COMPAC bearing in bearing carrier with retaining ring
- Thordon recommended shaft liner in the way of the bearing
- No aft seal required

**ThorShield Shaft Coating System**
- Thordon’s tough new modified epoxy coating ThorShield designed to provide integrity against corrosion

**SeaThorogor Mechanical Face Seal**
- A robust high performance face seal manufactured for long wear life and reduced maintenance costs for water lubricated marine propeller shafts

**COMPAC Tapered Key Design**
- COMPAC split bearing with tapered keyset allows bearings to be withdrawn, inspected and re-installed in a matter of hours with the shaft in place

**Thordon Water Quality Package**
- A Thordon Water Quality Package delivers a consistent supply of conditioned water to both the fwd seal and all bearings. A separate detailed brochure on the Thordon Water Quality Package is available

**Ford COMPAC Bearing System**
- COMPAC bearing in bearing carrier
- Thordon recommended shaft liner in the way of the bearing

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"EPA recommends that all newbuild vessel operators endeavour to use seawater-based systems for their stern tube lubrication to eliminate the discharge of oil from these interfaces to the aquatic environment."

– Section 2.2.9; 2013 Vessel General Permit (VGP) effective Dec. 19, 2013 (U.S.A.)

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"It's pretty clear that the end game will be no discharges allowed at all, and the time is coming when that will be the only way to comply."

– Julian Heath, Director of Operations, Algoma Central Corp., Canada

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"We chose Thordon COMPAC for all our newbuildings because of the long experience of these seawater lubricated bearings which present no risk of oil pollution. With the elimination of aft seal maintenance and no oil required, we are expecting considerable cost savings over the life of the vessels."

– Richard Goodwin, Vice President, Engineering, Viking Ocean Cruises (U.K.)

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"Spills always come at times when you do not need them, and they can be avoided if you plan properly. There is no better course of action than to have good oil systems, especially in U.S. ports."

– Mario Babin, General Manager, Port Management (U.S.A.)

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"One anti-pollution measure that has proved its worth is Carnival’s choice of Thordon COMPAC water lubricated propeller shaft bearings. As well as eliminating pollution risks, they have proven to be so robust, it’s likely they will outlast many of the vessels."

– Chris Joly, Principal Manager, Marine Engineering, Carnival Corp. (U.K.)

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"Having water-lubricated stern tube bearings not only improves the efficiency and environmental footprint of a vessel but also eliminates the need for oil storage."

– John McMillan, Technical Director, Beltship Management Ltd. (Monaco)

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"The Trillium Class design includes many industry leading efficiency and pollution reduction features. Eliminating any possible source of pollution was given a high priority when designing these vessels."

– Kevin Begley, Director - Project Management, CSL International (U.S.A.)

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"It’s pretty clear that the end game will be no discharges allowed at all, and we have bought into a process that is externally audited by Lloyd’s Register."

– Al Davies, Director of Operations, Algoma Central Corp., Canada

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COMPAC Ship Owner Benefits

- Reduce operational costs
- Eliminate oil and problems
- Eliminate emergency dockings
- Fewer components
- Zero environmental impact
- PAHS compliant
- Meets U.S. VGP requirements
- Over 2000 ship references

Cost Savings

The COMPAC seawater lubricated propeller shaft bearing system eliminates stern tube oil or oil-based EALs as seawater is used as the lubricant. There is no aft seal, no storage of oil, no sampling of oil, no disposal of oil, and no risk of seawater ingress contaminating the oil. Compared to synthetic EALs that are 500-1000% more expensive than mineral oil, seawater is free and recommended by the U.S.A. Environmental Protection Agency to meet Vessel General Permit requirements. Emergency aft seal repairs are not required, as there is no aft seal.

Compliant Operation

Recently, both LR and BV have modified rules for seawater lubricated propeller shaft systems, allowing the shaft to remain in place if monitoring conditions are met. The Thordon COMPAC seawater lubricated propeller shaft bearing system is certified as compliant by LR and BV and meets all current international specifications and standards. The system also meets all International Maritime Organisation (IMO) and all national and local regulations, including all U.S. VGP and PAHS requirements, ensuring vessels are free of exposure to the risk of pollution.

Industry-Specific Benefits

Thordon’s COMPAC system ensures shipowners/operators that there will be no environmental violations resulting from stern tube oil leakage and meets both U.S. VGP and Polar Code regulations guaranteeing zero risk of pollution.
Controlled Bearing Environment

Thordon’s COMPAC system ensures an adequate supply of clean water is consistently being delivered to both the forward seal and the stern tube bearings. Lubrication of the bearing is assured and a long predictable bearing wear life is achieved. A controlled supply of clean water allows Thordon to offer a 15 year bearing wear life guarantee.

Easily Machined and Fitted

Thordon COMPAC machines cleanly and produces no airborne machining debris. COMPAC is much lighter than white metal bearings and can be fitted quickly and easily by freezing in liquid nitrogen or dry ice.

Quick and Responsive Service

It takes quality products to be globally successful in the marine bearing industry. It also takes great service to keep customers coming back. Thordon Bearings is geared to responding quickly to new shipbuilding, repair and conversion projects. Thordon bearings arrive quickly, fit right and last!

CUSTOMER FOCUSED TO QUICKLY MEET YOUR NEEDS

Global Distribution Network

Thordon Bearings has an extensive distribution network to supply global customers. More than 50 distributors in 45 countries carry inventory of Thordon’s seawater bearing ranges which are backed by large regional and head office inventories. Thordon’s competitive fixed and variable price system ensures quick response to customers' needs and a competitive delivery time.

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APPLICATION ENGINEERING

Thordon engineers work closely with customers to provide innovative bearing system designs and solutions. We offer intensive design, CAD and the proprietary Thordon Bearing Sizing Calculator software to help accurately size our bearings. Our decades of experience mean that we offer the right technical support during design, machining, installation and operation.

Cost Savings

The COMPAC seawater lubricated propeller shaft bearing system reduces maintenance costs, improves operating efficiency and meets all relevant IMO and International Maritime Organizations environmental regulations. This is achieved without requiring the installation of any new ancillary equipment. The system also reduces the costs of refrigeration and the amount of water required to maintain the seawater cooled environment in the machinery space. Thordon’s COMPAC system eliminates the need for the aft seal, reducing costs associated with its installation, maintenance and repair.

Application Engineering

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Compliance

Thordon Bearings is a family-owned company that manufactures to ISO 9001:2008 Quality System requirements. Contact us for references of our installations.

Compliant Operation

Recently, both LR and BV have modified rules for seawater lubricated propeller shaft systems, allowing the shaft to remain in place if monitoring conditions are met. Thordon Bearings is committed to their products meeting all of the necessary regulations thereby being compliant with both LR and BV. Thordon Bearings has been supplying seawater lubricated propeller shaft systems to the marine industry for more than 40 years and has continued to develop the system to meet all requirements and comply with all U.S. and International regulations.

COMPAC SEAWATER LUBRICATED PROPELLER SHAFT BEARING SYSTEM

COMPAC is a seawater lubricated propeller shaft bearing system for use in marine vessels and has been developed by Thordon Bearings Inc. to provide for efficient and reliable propulsion systems. The COMPAC system utilizes seawater as the lubricating medium and eliminates the need for aft seals. This allows for significant cost savings and environmental benefits.

The COMPAC system is an experienced supplier of marine and industrial applications and is committed to providing reliable and high-quality products and services. Thordon Bearings has over 40 years of experience in the development and manufacture of marine bearing systems and is dedicated to providing dependable and cost-effective solutions for a wide range of industries.