Certificate No: LR25363038TA
Issue Date: 09/10/2025
Expiry Date: 08/10/2030

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Thordon Bearings Inc.**
Address	3225 Mainway, Burlington, L7M 1A6, Canada
Type	Water Lubricated Sterntube Seals
Description	Forward seal for water lubricated sterntubes based on mechanical face sealing technology. Primary dynamic seal using Silicon Carbide on Silicon Carbide faces. Secondary seal by engaging the inflatable elastomer Safety Seal element activated by compressed air intended in Static Mode for maintenance and repair and in Dynamic Mode for operation with limited duration and shaft speed (as SRtP).
Trade Name	SeaThigor Forward Shaft Seal / Water lubricated stern tube seal
Application	As propeller shaft seal on board ships classed or intended for classification with Lloyd's Register.
Specified Standard	Lloyd´s Register Rules and Regulations for the Classification of Ships, 2025; Lloyd´s Register Rules and Regulations for the Classification of Special Service Craft, 2025; Transport Canada

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Jenny Wilson

Engineering - Machinery Principal Specialist
to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Ratings

Primary and Secondary Seal are rated to seal pressure up to 2 bar or 20 m distance from the seal CL to the water line on the vessel.
Standard sizes:
ST-01 to ST-18 with shaft diameter over liner from 300 to 750 mm
STS -01 with shaft diameter over liner from 300 to 325 mm
STS -05 with shaft diameter over liner from 400 to 425 mm
STS -09 with shaft diameter over liner from 500 to 525 mm
STS -15 with shaft diameter over liner from 650 to 675 mm
STS -18 with shaft diameter over liner from 725 to 750 mm

Other Conditions

For sealing lubrication purpose a small adjustable leakage rate below 15L/h is to be maintained in Dynamic Mode.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2023252TA

The Design Appraisal Document LR25363038TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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