



Certificate No. 02-002911/024955

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

**Propeller shaft bearings
THORDON SXL 2:1**

MANUFACTURER:

Thordon Bearings Inc.
3225 Mainway
BURLINGTON, Ontario, L7M 1A6
Canada

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Rules for the Classification of Ships, Part 7- Machinery Installation

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2024-04-02**

Place and date: Split, 2020-03-16

Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Propeller shaft bearings, water lubricated

APPLICATION / LIMITATIONS:

- *Length per diameter ratio, for bearing next to propeller: min $L/D=2$*
- *Maximum pressure on bearing surface: $0,60 \text{ N/mm}^2$*
- *Bearings shall be fitted in accordance with the manufacturer's recommendations.*
- *Axial grooves are to be located all around the bearing inner circumference (fully grooved).*
- *Bearings shall be forced lubricated by water*

TYPE APPROVAL DOCUMENTATION:

- *Thordon Engineering Manual, version E2006.1*
- *Thordon Marine Bearing Installation Manual, version 2008.1*

MARKING OF PRODUCT:

- *manufacturer and product name*
- *bearing main dimension*
- *batch number*

CONDITIONS FOR CERTIFICATION:

Workshop drawings of the bearings containing all the necessary data are to be submitted for approval for each particular installation.