Certificate No: LR2044349TA
Issue Date: 24/06/2020
Expiry Date: 23/06/2025

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	**Wartsila Japan Ltd.**
Address	7-14-37 Mukaishinjomachi, Toyama-shi, Toyama-ken, 930-0913, Japan
Place of Production	Wartsila Suzhou Limited No 77 Hong Xi Road, Suzhou, 215151, China
Place of Production	Wartsila Japan Ltd., Toyama 7-14-37, Mukaishinjo-machi, Toyama-shi, 930-0916, Japan
Type	Sterntube Seals And Bearings
Description	Stern tube seal for the prevention of oil leakage and/or water ingress
Trade Name	Sternguard MK-II-M/OLS2-P-C (Forward) / Sternguard MK-II-M/OLS3-P-C (Aft)
Application	Oil bath type sterntube sealing arrangement for operation in ships fitted with suitable oil lubricating system. LR SCM notation.
Specified Standard	Lloyd's Register's Rules and Regulations for the Ships, Part 5, Chapter 6 (July 2020)
Ratings	Nominal seal size range (mm) : 85 to 380 Minimum shaft diameter (mm) : 56

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Yasushi Sawada

Lead Surveyor to Lloyd's Register Group Ltd
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Maximum shaft diameter (mm) : 362

Other Conditions

1) Where the seals are intended to be installed in a ship classed or intended to be classed with Lloyds Register (LR), the stern tube seals are to be found to function to the attending LR Surveyor's satisfaction when fitted and tried under full working conditions.
2) The sealing system is to be installed in accordance with the manufacturer's instructions.

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 Group Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2044349TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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