Certificate No: LR2004413TA
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	**Wärtsilä Japan, Ltd.**
Address	7 Chome-14-37, Mukaishinjomachi, Toyama, 930-0916, Japan
Place of Production	Wärtsilä Japan, Ltd. 7 Chome-14-37, Mukaishinjomachi, Toyama, 930-0916, Japan
Type	Stern Tube Seals
Description	Stern tube seal for the prevention of oil leakage and/or water ingress
Trade Name	Standby Seal 4BL/OLS4/OLS4-P/OLS4-P-N (Aft)
Application	Oil bath type stern tube sealing arrangement for operation in ships fitted with suitable oil lubricating system. LR SCM/*IWS notation.
Specified Standard	Lloyd's Register's Rules and Regulations for the Ships, Part 5, Chapter 6 (January 2020)
Ratings	Nominal seal size range (mm) : 155 to 1250 Minimum shaft diameter (mm) : 136 Maximum shaft diameter (mm) : 1172
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

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Yasushi Sawada

Machinery & Piping Group Leader to Lloyd's Register Group Ltd
A member of the Lloyd's Register Group

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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.

3) Where applicable, instructions for installation and maintenance specific to G123 composite seal casings are to be part of 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. LR2004413TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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