Certificate No: LR2577513TA
Issue Date: 30/06/2025
Expiry Date: 29/06/2030

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	**Maprom Engineering B.V.**
Address	Maxwellstraat 22, Dordrecht, 3316 GP, Netherlands
Type	Propeller Shafts Seals
Trade Name	Maprom GS seals
Application	Water Lubricated Inboard and Outboard seals for Propeller shafts
Specified Standard	**Rules and Regulations for the Classification of Ships, July 2024** **Rules and Regulations for the Classification of Inland Waterways Ships, July 2024** **Rules and Regulations for the Classification of Naval Ships, July 2024– Volume 2, Part 3, Chapter 2**
Ratings	GS IS: 85 mm - 1050 mm, 3 1/4" - 41 1/4" propeller shaft diameter GS OS: 85 mm - 1050 mm, 3 1/4" - 41 1/4" propeller shaft diameter Spilt GS OS: 85 mm - 1050 mm, 3 1/4" - 41 1/4" propeller shaft diameter Material of sealing ring: NBR
Other Conditions	Where the seals are intended to be installed on a ship classed or intended to be classed with LR, the following conditions of acceptance will be applicable:- 1. The seals are to be found to function to the attending LR Surveyor's satisfaction when fitted and tried under working conditions. 2. The design of shaft seal is to be capable of incorporating the maximum

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

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

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Type Approval Certificate

bulkhead deflection limits in the axial and radial directions as per Volume 2, Part 3, Chapter 2, Section 4.20.1 of the Naval Ship Rules.

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.

The Design Appraisal Document TSO24-024212-M Issue 0 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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