Certificate No: LR21451784TA
Issue Date: 25/11/2021
Expiry Date: 24/11/2026

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 **Mikasa Corporation**

Address 1, Kuchi, Asa-cho, Asakita-ku, Hiroshima, 731-3362, Japan

Type Water Lubricated Propeller Shaft Bearings

Description

Type-F	Full-Mold Type
Type-F-CR	Full-Mold Type, Crescent Design
Type-S	Segmental Type
Type-T	Barrel Type
Type-T-CR	Barrel Type, Crescent Design

Trade Name FFB (Friction-Free Bearing)

Application Marine

Specified Standard Lloyd's Register Rules and Regulations for the Classification of Ships July 2021, Part5, Chapter 6, Section 3

Ratings Shaft diameter range :

Type-F	:40 ~ 450 mm
Type-F-CR	:40 ~ 450 mm
Type-S	: 200 ~ 1000 mm
Type-T	: 200 ~ 1000 mm
Type-T-CR	: 200 ~ 1000 mm

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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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Other Conditions

The length of the bearing is to be not less than twice its 2.0 times the rule diameter of the shaft in way of the bearing.
The product is to be installed and tested in accordance with the manufacturers recommendations.

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 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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