Certificate No: LR2002664TA
Issue Date: 02/04/2020
Expiry Date: 07/04/2024

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	**MTU Friedrichshafen GmbH**
Address	Maybachplatz 1, Friedrichshafen, 88045, Germany
Type	Diesel Engines
Description	Reciprocating high speed internal combustion oil engine, non-reversible, direct injection based on a Common Rail (CR) fuel injection system, 4 SCSA, turbocharged, V-type
Trade Name	MTU Series 4000 Mx3 – 12, 16 and 20 cyl.
Application	As prime movers for multi-engine plants and auxiliary drives on ships classed or intended for classification with Lloyd's Register
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, 2019
Ratings	Power (MCR) : 195 kW/cyl. at 2100 rpm Max. firing pressure : 220 bar MIP : 29.3 bar
Other Conditions	Not intended as single emergency source of electrical power

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Olaf Schmidt

Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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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 No. ENS 23549-09, Issue No. 3 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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