Certificate No: LR2003626TA
Issue Date: 18/05/2020
Expiry Date: 17/05/2025

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 **MTU Friedrichshafen GmbH**

Address Maybachplatz 1, Friedrichshafen, 88045, Germany

Type Exhaust Gas Systems

Description Exhaust Gas Turbocharger

Trade Name ZR3.165.I and ZR5.255.I

Application As exhaust turbochargers for MTU engines series 1163Mx4

Specified Standard Lloyd's Register Rules and Regulations for the Classification of Ships, 2019

Ratings

	Turbine Wheel Diameter [mm]	Compressor Wheel Diameter [mm]	Speed [rpm]	Exhaust Gas Temp. [°C]
ZR3.165.I	158	165 AI	62.400	750
ZR5.255.I	225	255 AI	33.000	650

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. HTS/ENS 32647-15, Issue No. 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Olaf Schmidt

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