Certificate No: LR2664467SC
Issue Date: 15/07/2026
Expiry Date: 14/07/2029

Software Conformity Certificate

This certificate is issued to

Manufacturer **Robert Bosch AG**

Address Boschstrasse 7, Hallein, 5400, Austria

Software: **Firmware/Applicationsoftware identification**: Pwwww_Vxyz

[wwww: software project number
x digit: New Specific Application Software Version
y digit: Bug Fix Digit with functional impact
z digit: Minor changes]

Application Software designations for a specific Engine Type and application will be handled case by case and added to this certificate when verified.

Calibration/Dataset for each engine type will be verified with Engine manufacturer during Type Tests and Factory Acceptance Test (FAT).

Engine Type related Software versions:

Engine Type: Hardware: Software

IFM-180 Diesel Genset Auxiliary/Emergency : MD1CE200-60: P2463_V3yz
IFM-180 Diesel Propulsion: MD1CE200-60 : P2463_V4yz
IFM-195 H2 Genset Auxiliary/Emergency : MD1CE200-80: P2831_V4yz

Description: Engine control unit (ECU) software for electronically controlled large 4 stroke combustion engines. Suitable for propulsion and auxiliary engines.

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Jörn Brügmann

Electrical & Control Technical Manager - North Europe 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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Operating Environment: The software will be installed on an Engine Control Unit of type MD1CE200-60 or MD1CE200-80 covered by LR Type Approval certificate LR21157124TA-03 with issue date 07.05.2026 used on various engine types as listed in this certificate.

Assessment Module: GEN Module 1

Qualifications: This certificate is valid for subsequent versions of the software, provided the modifications are performed using the change control process covered by this certification, and appropriate configuration management is maintained.

Major changes are to be notified to LR and documents submitted to demonstrate compliance with assessment criteria (i.e. changes that result in additional functionality or a wider scope of certification).

This certificate is valid only for the software mentioned herein and excludes software that has been developed outside the assessed development process.

The Design Appraisal Document No. PRJ111005104604/TSO/25-038498/JB and its supplementary Software Conformity Assessment Terms and Conditions form part of this Certificate.

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