

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM000017A**This is to certify:****That the Diesel Engine**with type designations
UEC35LSE-Eco-B2(-SCR)

Issued to

Japan Engine Corporation
674-0093 Akashi, Japan

is found to comply with

DNV GL Rules for classification, Ships - DNVGL-RU-SHIP-Pt4 Ch3 Sec1,
Reciprocating Internal Combustion Engines**Application :**

mechanical propulsion

Product approved by this certificate are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **14th December, 2025.**Issued at **Høvik** on **15th December, 2020**DNV GL local station: **Kobe, Japan**for **DNV GL**Approval Engineer: **Tage Olav Alexander Strøm**

Oddvar Deinboll
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-032989-1**
Certificate No: **TAM000017A**

Product description

Two stroke, in-line engine, reversible, crosshead, with supercharging, with charge air cooling, direct injection, injection operation electronically controlled, valve operation electronically controlled, liquid fuel

Cylinder bore [mm]	350
Piston stroke [mm]	1550
No. of cylinders	5, 6, 7, 8

Application/Limitation

Rated power [kW/cyl.]	533
Rated speed [rpm]	123
Mean effective pressure [bar]	174
Max. firing pressure [bar]	190

Type Approval documentation

Tests carried out

Documentation:

Test report title	Type approval test results
Place of test	Japan Engine Corporation, Japan
Date of test	2020-11-04, 2020-11-18, 2020-11-19 and 2020-11-20

Test engine:

Model	UEC35LSE-Eco-B2-SCR
Serial no.	UE-3155
No. of cylinders	6
Power [kW/cyl.]	533
Speed [rpm]	123

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval certificate was issued.

In case where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore Periodical Assessment shall be carried out randomly at these companies.

Other Conditions

Engine safety, control and monitoring systems, including sensors and actuators are not covered by this type approval certificate. Documentation for engine safety, control including speed governing and monitoring systems shall be submitted for approval according to the Rules Pt.4 Ch.9 Sec.1 Table 5 and/or as listed in relevant type approval certificates.

Electric cables and installation of these are not covered by this approval and must be verified to comply with the requirement of the Rules Pt.4 Ch.8 - Electrical Installation.

The SCR unit if installed, is not covered by this approval.

END OF CERTIFICATE