

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000SY

This is to certify:

That the Diesel Engine

with type designation(s)
C25:33L

Issued to

Bergen Engines AS
Hordvik, Norway

is found to comply with

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

Application :

Propulsion / auxiliary

Products approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **30th June, 2022**.

Issued at **Høvik** on **27th February, 2018**

DNV GL local station: **Bergen**

for **DNV GL**

Approval Engineer: **Dag Harald Williksen**

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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: **262.1-000737-8**
Certificate No: **TAM00000SY**

Product description

Four stroke, in-line engine, non-reversible, trunk-piston, with supercharging, with charge air cooling, pulsating pressure charging system, direct injection, injection operation by cams, valve operation by cams, liquid fuel

Cylinder bore [mm]	250
Piston stroke [mm]	330
No. of cylinders	6, 8 and 9

Application/Limitation

Rated power [kW/cyl.]	320	333
Rated speed [rpm]	900	1000
Mean effective pressure [bar]	26.3	24.7
Max. firing pressure [bar]	230	230

Type Approval documentation

Tests carried out

Documentation:

Test report titel	Summary of observations and registrations from DNV Type Test of prototype C25:33 / H25:33 L6 - engine no. 12000
Place of test	Hordviknesset, Bergen
Date of test	2001-03-29 until 2001-03-30

Test engine:

Model	C25:33L6
Serial no.	12000
No. of cylinders	6
Power [kW/cyl.]	290
Speed [rpm]	900

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.

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

Flexible hoses to be Type Approved by DNV GL.

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 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.

END OF CERTIFICATE