

TYPE APPROVAL CERTIFICATECertificate No:
TAM00000V3**This is to certify:****That the Diesel Engine**with type designation(s)
M32C

Issued to

Caterpillar Motoren GmbH & Co. KG
Kiel, Germany

is found to comply with

DNV GL rules for classification: Ships Pt.4 Ch.3 Sec.1 "Reciprocating internal combustion engines" and**DNV GL offshore standards: DNVGL-OS-D101 "Marine and machinery systems and Equipment".****Application :**

propulsion / auxiliary / emergency (see Application/Limitation next page)

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2023-06-07**.Issued at **Hamburg** on **2018-06-08**DNV GL local station: **Hamburg**for **DNV GL**Approval Engineer: **Jan Sell**

Burkhard Lilienthal
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.

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Product description

four stroke, in-line engine, non-reversible, trunk-piston, with supercharging, with charge air cooling, constant-pressure charging system, pulsating pressure charging system, direct injection, injection operation by cams, valve operation by cams, liquid fuel, with or without Flexible Cam Technology (FCT)

Cylinder bore [mm]	320
Piston stroke [mm]	480
No. of cylinders	6, 8, 9

Additional place of production

Caterpillar Motoren Rostock GmbH, Rostock, Germany

Application/Limitation

Rated power [kW/cyl.]	500
Rated speed [rpm]	600
Mean effective pressure [bar]	25.9
Max. firing pressure [bar]	205

The approval according DNV GL Rules for Ships is valid for propulsion and auxiliary duty with main data as specified in above table.

Approval according to DNV GL Offshore Standard DNV-OS-D101 "Marine and machinery systems and equipment", edition January 2018:

The engine type is approved for use as driver for generators for continuous duty and emergency generators onboard mobile offshore units with main data as specified in above table.

Type Approval documentation

This renewal of Type Approval is based on previous certificate M-12553.

Tests carried out

Documentation:

Test report titel	Type tests M32, Report 8/94/32
Place of test	Kiel
Date of test	1994-07-25 until 1994-07-27

Test engine:

Model	6M32
Serial no.	37001
No. of cylinders	6
Power [kW/cyl.]	440
Speed [rpm]	600

Type Test Report 03/02/32 dated 2002-04-08.

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

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production at their licensees/subcontractors. Furthermore Periodical Assessment shall be carried out randomly at these companies.

Other Conditions

1. Engine safety, control and monitoring systems, including sensors and actuators, are not covered by this certificate. Documentation for engine safety, control (including speed governing), and monitoring systems shall be submitted for approval according to DNV GL Rules Ships Pt.4 Ch.9 Sec.1 Table 5 and/or as listed in relevant Type Approval certificates.
2. Correct oil sump has to be selected for the application (e.g. regarding inclinations in case of emergency engine application on mobile offshore units).
3. The approval does not include driven member.

END OF CERTIFICATE