

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000YM

This is to certify:

That the Diesel Engine

with type designation(s)
N855-M/ -D(M)

Issued to

Cummins Inc.
IN CHARLESTON, United States

is found to comply with

DNV GL Rules for classification, Ships / High Speed and Light Craft

Application :

propulsion / auxiliary / emergency

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

This Certificate is valid until **16th August, 2023**.

Issued at **Hamburg** on **17th August, 2018**

DNV GL local station: **New York**

for **DNV GL**

Approval Engineer: **Ralph Michael**

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.

Job Id: **262.1-009874-5**
Certificate No: **TAM00000YM**

Product description

four stroke, in-line engine, non-reversible, trunk-piston, constant-pressure charging system, direct injection, injection operation by cams, valve operation by cams, liquid fuel

Cylinder bore [mm]	140
Piston stroke [mm]	152
No. of cylinders	6

Additional place of production

Cummins India Ltd., Pune, India

Application/Limitation

Rated power [kW/cyl.]	49.67	44.83	26.67	59.67	51	49.17	40.33
Rated speed [rpm]	2100	2100	1950	1800	1500	1800	1500
Mean effective pressure [bar]	12.13	10.95	7.01	17	17.44	14.01	13.79
Max. firing pressure [bar]	133	131	97	151	133	144	123
Definition	-M	-M	-M	-D(M)	-D(M)	-D(M)	-D(M)

The type approval is not valid for emergency application for liquefied gases or chemicals tankers according to DNV GL Rules Ships Pt.4 Ch.1 Sec.3 [2.2.1]

Type Approval documentation

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 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.

This renewal of Type Approval is based on previous certificate M-12680, 25767-11 HH.

Exhaust gas turbochargers are not covered by this type approval certificate.

END OF CERTIFICATE