



Certificate no.:
TAM00001EV

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Diesel Engine

with type designation(s)
6CT8.3, 6CTA8.3

issued to
Shanghai Cummins Trade Co., Ltd.
Shanghai, China

is found to comply with
DNV rules for classification – Ships Pt.4 Ch.3 Sec.1 Reciprocating internal combustion engines

Application:
Auxiliary or Emergency

Issued at **Hamburg** on **2025-06-12**
This Certificate is valid until **2030-06-11**.
DNV local unit: **Wuhan NB & CMC**

for **DNV**

Approval Engineer: **Sven Neddenien**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Four-stroke, trunk piston, in-line, non-reversible, with supercharging, with charge air cooling (6CTA8.3) or without charge air cooling (6CT8.3), constant pressure charging system, valve operation by cams

Fuel MDO, direct injection, injection operation mechanically controlled

Following sub-systems are approved and integrated

- Turbocharger Cummins HX40W (approved as part of the engine)

Cylinder bore [mm] 114
Piston stroke [mm] 135
Number of cylinders 6

Application/Limitation

Engine model	6CT8.3	6CT8.3	6CTA8.3	6CTA8.3
Rated power [kW/cyl]	19.17	21.5	25.83	29.17
Rated speed [rpm]	1500	1800	1500	1800
Mean effective pressure [bar]	11.1	10.4	15.0	14.1
Firing pressure [bar]	120	121	130	117

Place of production

Dongfeng Cummins Engine Co., Ltd., Xiangyang, China

Type Approval documentation

Tests carried out

2025-02-20, Xiangyang Jingkang Power Technology Co. Ltd., Xiangyang, China, initial type approval test
test engine 6CTA8.3-GM175, serial no.93404133, 175 kW at 1800 rpm
DNV reference 262.1-043049-1

Marking of product

The product is to be marked with the manufacturer's name or trademark, the engine model designation, the engine serial no. and the output rating (kW at rpm).

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 Rules Ships Pt.4 Ch.9 Sec.1 Table 5 and/or as listed in relevant Type Approval certificates.

END OF CERTIFICATE