

TYPE APPROVAL CERTIFICATECertificate No:
TAM00000XJ**This is to certify:****That the Diesel Engine**with type designation(s)
C4.4 DITA, DIT, DINA

Issued to

Caterpillar, Inc.
IN Lafayette, United States

is found to comply with

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

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 **1st July, 2023**.Issued at **Hamburg** on **2nd July, 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: **262.1-009369-3**
Certificate No: **TAM00000XJ**

Product description

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

Cylinder bore [mm]	105
Piston stroke [mm]	127
No. of cylinders	4

Additional place of production

For generator set: Caterpillar Marine Power UK Ltd., Wimborne, Dorset, United Kingdom
For engine: Perkins Engines Co. Ltd., Peterborough, United Kingdom

Application/Limitation

Rated power [kW/cyl.]	26.7	23.35
Rated speed [rpm]	1800	1500
Mean effective pressure [bar]	16.19	17.1
Definition	-	-

Type Approval documentation

Tests carried out

Documentation:

Test report title	C4.4 Genset, Marine Society Type Approval Test
Place of test	Wimborne, Dorset
Date of test	2005-11-21 until 2005-11-29

Test engine:

Model	C4.4 DITA (4.4TW2GM)
Serial no.	SRJU200766M
No. of cylinders	4
Power [kW/cyl.]	26.7 23.35
Speed [rpm]	1800 1500

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, cables 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 DNVGL Rule Ship Pt.4 Ch.9 Sec.1
The flexible hoses with couplings shall be DNV GL type approved according to
DNVGL Rule Ship Pt.4 Ch.6 Sec.9 [4.1.3], [5.3].
This renewal of Type Approval is based on previous certificate M-12722, 35789-06HH.

END OF CERTIFICATE