

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000YG**This is to certify:****That the Marine Genset**

with type designation(s)

C4.4 DITA MCS, DIT MCS, DINA MCS

Issued to

**Caterpillar, Inc.
IN Lafayette, United States**

is found to comply with

DNV GL Rules for classification, Ships / High Speed and Light Craft**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 **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: **262.1-009417-4**
Certificate No: **TAM00000YG**

Product description

Marine Genset including diesel engine, generator, generator controller.

Additional place of production

Perkins Engines Co. Ltd., Peterborough, United Kingdom
Caterpillar Marine Power UK Ltd., Wimborne Minster, United Kingdom

Application/Limitation

The gensets are approved for use as main and emergency power supply with the following ratings:

Model	ekW @ 1500 RPM (50 Hz)	ekW @ 1800 RPM (60 Hz)
C4.4 DINA MCS	38	44
C4.4 DIT MCS	51	58
C4.4 DITA MCS	86	99

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
Speed [rpm]	1800

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

Generator, 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.

Cables and installation of these in accordance with arrangement on the engine/gen.set referred to in DNV Survey report SOU-05-5705039 and additional correspondence with Perkins dated 06-02-01 accepting to waive the requirement to cable trays due to the small size of the gen.set.

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].



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DNV GL product certificate is not required.

The C4.4 engine types are covered by the type approval certificate TAM00000XJ.

The generator set shall be delivered with maker's statement of compliance with the type approval.

This renewal of Type Approval is based on previous certificate M-12722.

END OF CERTIFICATE