



Certificate No. 02-004152/025936

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

DIESEL ENGINE
Type
C4.4 / Perkins 4GM

MANUFACTURER:

CATERPILLAR MARINE POWER UK Ltd.
22 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset
BH21 7PW
England

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Rules for the Classification of Ships, Part 9-Machines

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2027-08-21**

Place and date: Split, 2023-08-21

Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Number of cylinders	4		
Cylinder arrangement	In-line		
Working cycle	4- stroke		
Cylinder bore (mm)	105		
Stroke (mm)	127		
Kind of fuel	Liquid		
Fuel system	Electronically controlled, direct injection type		
Valve operation	Cam control		
Turbocharging system	C4.4 DINA / Perkins 4.4 GM:	Naturally aspirated	
	C4.4 DIT / Perkins 4.4 TGM:	With turbocharging	
	C4.4 DITA / Perkins 4.4 TW(2)GM:	With turbocharging and aftercooled	

APPLICATION / LIMITATIONS:

Application: Auxiliary and emergency

Engine name:	C4.4 DINA / Perkins 4.4 GM		C4.4 DIT / Perkins 4.4 TGM	
Rated power (kW)	42,7	49,1	56,4	63,6
Rated speed (rpm)	1500	1800	1500	1800
Mean effective pressure (bar)	7,8	7,4	10,3	9,6

Application: Auxiliary and emergency

Engine name:	C4.4 DITA / Perkins 4.4 TWGM		C4.4 DITA / Perkins 4.4 TW2GM	
Rated power (kW)	75	82,7	93,4	99,5
Rated speed (rpm)	1500	1800	1500	1800
Mean effective pressure (bar)	13,6	12,5	17	15,1

Power ratings (at the same rated speed) lower than those stated is accepted as long as they are within the values approved by engine designer.

TYPE APPROVAL DOCUMENTATION:

Approved by the Croatian Register of Shipping with letters No.(dated):
 1166/TS/IA/022356 (2007-06-05)
 2438/TSE/IA/024473 (2018-10-30)

MARKING OF PRODUCT:

- manufacturer's mark
- location and year of final fitting
- CRS mark

CONDITIONS FOR CERTIFICATION:

Signalization and protection related to the engine shall be subject to CRS approval in each particular case and will depend on service applied and the degree of automation of the engine plant.