



Certificate No. 02-003655/025575

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
C7.1

MANUFACTURER:

CATERPILLAR MARINE POWER UK Ltd.

22 Cobham Road,
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: **2026-09-03**

Place and date: Split, 2022-06-29

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	6
Cylinder arrangement	In-line
Working cycle	4- stroke
Cylinder bore (mm)	105
Stroke (mm)	135
Kind of fuel	Liquid
Fuel system	Electronically controled, direct injection type, common rail
Valve operation	Cam control
Turbocharging system	Single-stage wih charge air cooling

APPLICATION / LIMITATIONS:

Application: Propulsion engine

Rated power (kW/cyl.)	34,9	43,6	49,7 <i>(intermittent duty)</i>	52,9 <i>(intermittent duty)</i>
Rated speed (rpm)	2300	2500	2600	2700
Mean effective pressure (bar)	15,5	17,9	19,6	20,1

Application: Auxiliary and emergency

Rated power (kW/cyl.)	18,2	21,5	27,3	21,5	27,3	31,8	36,4
Rated speed (rpm)	1500	1500	1500	1800	1800	1800	1800
Mean effective pressure (bar)	12,3	14,5	18,5	12,1	15,4	17,9	20,5

Lower ratings than these stated are acceptable 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):

446/TS/IA/023725	(2015-03-17)
1531/TS/IA/023950	(2016-06-20)
1228/TSEv/KF/024313	(2018-05-23)

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.