



Certificate No. 02-003896/025734

## 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 ACERT / Perkins 1204D E44TA

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: **2027-03-23**

Place and date: Split, 2023-02-03

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:**

<i>Number of cylinders</i>	<b>4</b>
<i>Cylinder arrangement</i>	<b>In-line</b>
<i>Working cycle</i>	<b>4- stroke</b>
<i>Cylinder bore (mm)</i>	<b>105</b>
<i>Stroke (mm)</i>	<b>127</b>
<i>Kind of fuel</i>	<b>Liquid</b>
<i>Fuel system</i>	<b>Electronically controlled, direct injection type, common rail</b>
<i>Valve operation</i>	<b>Cam control</b>
<i>Turbocharging system</i>	<b>Single-stage with charge air cooling</b>

**APPLICATION / LIMITATIONS:**

**Application: Auxiliary and emergency**

<i>Rated power (kW)</i>	<b>70,5</b>	<b>86,8</b>	<b>108,6</b>	<b>65,2</b>	<b>81,5</b>	<b>108,6</b>	<b>129</b>
<i>Rated speed (rpm)</i>	<b>1500</b>			<b>1800</b>			
<i>Mean effective pressure (bar)</i>	<b>12,8</b>	<b>15,8</b>	<b>19,7</b>	<b>9,9</b>	<b>12,3</b>	<b>16,5</b>	<b>19,5</b>

*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):*      490/TS/IA/023730      (2015-03-23)

**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.*