



Certificate No. 02-002890/024915

## 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, series CURSOR 13

MANUFACTURER:



**FPT Industrial S.p.A.**  
Via Puglia 15  
10156 Turin, Italy

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

**CRS: 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: **2024-02-20**

Place and date: Split, 2020-02-20

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:**

4-stroke, single acting, water cooled diesel engines

Types: C13 ENS M33, ENT M50  
 Cylinder bore: 135 mm  
 Piston stroke: 150 mm  
 Cylinder number: 6 in-line  
 Compression ratio: 16,5:1

**APPLICATION / LIMITATIONS:**

Models	C13 ENS M33	C13 ENT M50	C13 ENT M50	C13 ENT M50
Service	Propulsion	Propulsion	Auxiliary	Auxiliary
MEP [bar]	10,5	17,5	N/A	N/A
MFP [bar]	110,5	158,7	N/A	N/A
MCR [kW]	198,5	368	340	295
at RPM [min <sup>-1</sup> ]	1800	2000	1800	1500

**TYPE APPROVAL DOCUMENTATION:**

The documentation approved by CRS with No. (dated): 022159 (2007-01-09)

**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.