



Certificate No. 02-004336/026126

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 ENGINES, models

**4CHL-N, 4CHL-TN, 4CHL-TNA,
6CHL-N, 6CHL-TN, 6CHL-TNA,
4CHE3, 6CHE3, 6CH-HTE3,
6CH-WDTE, 6CH-WUTE**

MANUFACTURER:

YANMAR CO., LTD.
Mid Engine Engineering Division
Development Division
Large Power Products Management Division
Power Solution Business
5-3-1, Tsukaguchi Honmachi
Amagasaki, Hyogo
JAPAN

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: **2028-03-04**

Place and date: Split, 2024-03-04

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 diesel engine

Cylinder bore: 105 mm
Piston stroke: 125 mm
Cylinder number: 4,6 in line
Compression ratio: 14,4/15,4/16,9

APPLICATION / LIMITATIONS:

For auxiliary application

Engine model	Rated power, kW	Speed, rpm
4CHL-N	27,9	1500
	36,8	1800
4CHL-TN	36,8	1500
	45,6	1800
4CHL-TNA	45,6	1500
	54,4	1800

Engine model	Rated power, kW	Speed, rpm
6CHL-N	45,6	1500
	54,4	1800
6CHL-TN	54,4	1500
	73,6	1800
6CHL-TNA	67,7	1500
	89,7	1800

For marine propulsion

Engine model	Rated power, kW	Speed, rpm
4CHE3	57,4	2550
6CHE3	84,6	

Engine model	Rated power, kW	Speed, rpm
6CH-HTE3	125	2550
6CH-WDTE	154	
6CH-WUTE	188	

TYPE APPROVAL DOCUMENTATION:

The documentation approved by CRS with letter:

881/TS/IA/023656	2015-05-05
294/TS/IA/023854	2016-02-16
519/TSE/KF/026126	2024-03-04

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.