



Certificate No. 02-002892/024918

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:

DIZELSKI MOTORI, modeli
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:

HRB: Pravila za klasifikaciju brodova, Dio 9. - Strojevi.
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: 2024-02-16

Place and date: Split, 2020-02-16

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-taktni, jednoradni dizelski motor

Promjer cilindra: 105 mm
Hod klipa: 125 mm
Broj cilindara: 4,6 L
Omjer kompresije: 14,4/15,4/16,9

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:

Za pomoćne namjene

For auxiliary application

Model motora <i>Engine model</i>	Nazivna snaga, kW <i>Rated power, kW</i>	Brzina, o/min <i>Speed, rpm</i>
4CHL-N	27,9	1500
	36,8	1800
4CHL-TN	36,8	1500
	45,6	1800
4CHL-TNA	45,6	1500
	54,4	1800

Model motora <i>Engine model</i>	Nazivna snaga, kW <i>Rated power, kW</i>	Brzina, o/min <i>Speed, rpm</i>
6CHL-N	45,6	1500
	54,4	1800
6CHL-TN	54,4	1500
	73,6	1800
6CHL-TNA	67,7	1500
	89,7	1800

Za brodski poriv

For marine propulsion

Model motora <i>Engine model</i>	Nazivna snaga, kW <i>Rated power, kW</i>	Brzina, o/min <i>Speed, rpm</i>
4CHE3	57,4	2550
6CHE3	87,6	

Model motora <i>Engine model</i>	Nazivna snaga, kW <i>Rated power, kW</i>	Brzina, o/min <i>Speed, rpm</i>
6CH-HTE3	125	2550
6CH-WDTE	154	
6CH-WUTE	188	

TYPE APPROVAL DOCUMENTATION:

Dokumentacija odobrena od HRB dopisom:

881/TS/IA/023656

2015-05-05

The documentation approved by CRS with letter:

294/TS/IA/023854

2016-02-16

MARKING OF PRODUCT:

- oznaka proizvođača
- mjesto i godina završne montaže
- oznaka HRB
- *manufacturer's mark*
- *location and year of final fitting*
- *CRS mark*

CONDITIONS FOR CERTIFICATION:

Najmanja rastezna čvrstoća materijala koljenastog vratila je 845 MPa.

Signalizacija i zaštita vezana za motor bit će od slučaja do slučaja stvar posebnog odobrenja HRB, a ovisit će o namjeni motora i stupnju automatizacije motornog postrojenja.

Ne smiju biti upotrijebljeni ako se zahtijeva dvostruka pumpa rashladne vode.

Minimal tensile strength of crank shaft material is 845 MPa.

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.

Must not be used when duplication of cooling water pump is requested.