

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000VR**This is to certify:****That the Diesel Engine**with type designation
6HYM-WET

Issued to

**Yanmar Co., Ltd. Tsukaguchi Plant
Amagasaki, Japan**

is found to comply with

**DNV GL Rules for classification, Ships - DNVGL-RU-SHIP-Pt4 Ch3 Sec1,
Reciprocating Internal Combustion Engines****Application :**

Mechanical propulsion, multi engine plant

Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **30th June, 2023**.Issued at **Høvik** on **2nd May, 2018**DNV GL local station: **Kobe**for **DNV GL**Approval Engineer: **Tage Olav Alexander Strøm**

**Oddvar Deinboll
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Four stroke, in-line engine, non-reversible, with supercharging, with charge air cooling, pulsating pressure charging system, direct injection, injection operation by cams, valve operation by cams, liquid fuel

Cylinder bore [mm]	132.9
Piston stroke [mm]	165
No. of cylinders	6

Place of production

Yanmar Co., Ltd. Tsukaguchi Plant, Amagasaki, Japan

Application/Limitation

Rated power [kW/cyl.]	62.3	73.5	79.7
Rated speed [rpm]	1950	2100	2150
Mean effective pressure [bar]	16.5	18.4	19.4
Max. firing pressure [bar]	127.5	138.3	142.2

Type Approval documentation

Tests carried out

Documentation:

Test report title	Test Record of Engine R3MK7801
Place of test	Yanmar Tsukakuchi plant, Japan
Date of test	2014-05-20 until 2014-05-21

Test engine:

Model	6HYM-WET
Serial no.	2634
No. of cylinders	6
Power [kW/cyl.]	79.67
Speed [rpm]	2150

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years after the issue date of the Type Approval. A renewal assessment will be performed at renewal of the certificate.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval certificate was issued.

In case where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore Periodical Assessment shall be carried out randomly at these companies.

Other Conditions

Flexible hoses to be Type Approved by DNV GL.

Engine safety, control and monitoring systems, including sensors and actuators are not covered by this type approval certificate. Documentation for engine safety, control including speed governing and monitoring systems shall be submitted for approval according to the Rules Pt.4 Ch.9 Sec.1 Table 5 and/or as listed in relevant type approval certificates.

Electric cables and installation of this is not covered by this approval and must be verified to comply with the requirement of the Rules Pt.4 Ch.8 - Electrical Installation.

END OF CERTIFICATE