



Certificate no.:
TAM00001E8

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Diesel Engine

with type designation(s)
6GY135

issued to

Yanmar Power Technology Co., Ltd. Tsukaguchi Factory
Amagasaki, Hyogo Pref., Japan

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.3 Sec.1 Reciprocating internal combustion engines

Application:

multi engine propulsion installation

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

Rating see page two

Issued at **Høvik** on **2025-02-12**

This Certificate is valid until **2030-02-11**.

for **DNV**

DNV local unit: **Japan CMC**

Approval Engineer: **Dag Harald Williksen**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Four stroke, In-line engine, non-reversible, trunk-piston, with supercharging, with charge air cooling, pulsation pressure system, direct injection, injection operation electronically controlled, valve operation by cams, liquid fuel.

Cylinder bore [mm] 135
Piston stroke [mm] 170
No. of cylinders 6 in-Line

Electronic controlled fuel injection system is covered by this type approval certificate. System consists of following components produced by DENSO Corporation, Japan:

Name	Model. No
Controller	DC1V
Rotation sensor	029600-0570
Phase sensor	949979-130
Rail pressure sensor	45PP14-4
Solenoid valve for fuel injection	129G01-53000
Solenoid valve (PCV)	0030
Solenoid valve (PRV)	0130

Electronic controlled fuel injection system components environmental classes:

Temperature	Humidity	Vibration	EMC
A	B	B	A

Alarm and safety functions scope is found to be in compliance with applicable requirements in DNV Rules for Ships Pt.4 Ch.3 Sec.1, Edition July 2024, for propulsion engines used in multi-engines propulsion installations.

Application/Limitation

	6GY135
Rated cont. output (kW):	372 – 599
Mean effective press. (bar):	23,4 – 17
Max. cylinder press. (bar)	165 – 119
Corresponding to (RPM):	1800 – 2100

Type Approval Documentation

262.1-042215-1

Tests carried out

Documentation:

Test report title Test report of type approval test
Place of test Yanmar Power Technology Co., Ltd., Amagasaki, Japan
Date of test 2024-09-25 until 2024-09-26

Test engine:

Model 6GY135W-S
Serial no 0103
No. of cylinders 6
Power [kW] 599
Speed [rpm] 2100

Marking of product

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

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

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



Job ID: **262.1-042215-1**
Certificate no.: **TAM00001E8**

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.

Electric cables and cabling are not covered by this approval and must be verified to comply with the requirement of DNV Rules for Ships/ High, Speed Light Craft and Naval Surface Craft Pt.4 Ch.8 – Electrical Installation.

Flexible hoses with couplings to be type approved by DNV.

The torsional vibration calculation must be submitted according to the Rules confirming that cylinder misfiring not is detrimental to any components in the propulsion system.

END OF CERTIFICATE