TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00001C6

This is to certify:

That the Dual Fuel Engine

with type designation
EY26LDF

Issued to
Yanmar Power Technology Co., Ltd.
Amagasaki, Japan

is found to comply with
DNV Rules for classification, Ships - DNV-RU-SHIP-Pt4 Ch3 Sec1, Reciprocating Internal Combustion Engines

Application :

Auxiliary

Issued at **Høvik** on **18th December, 2023**
This Certificate is valid until **17th December, 2028**.

DNV local station: **Kobe**

for **DNV**

Approval Engineer: **Tage Olav Alexander Strøm**

Olaf Drews
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.

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 300,000 USD.

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

Cylinder bore [mm]	260
Piston stroke [mm]	385
No. of cylinders	6,8

Place of production
Yanmar Power Technology Co., Ltd., Amagasaki, Japan

Application/Limitation

Rated power [kW/cyl.]	245	245
Rated speed [rpm]	720	750
Mean effective pressure [bar]	20.3	19.2
Max. firing pressure [bar]	170	170

Type Approval documentation

Tests carried out
Documentation:

Test report title	Type approval test – test record of engine	Integration test procedure & results
Place of test	Yanmar Amagasaki, Japan	Yanmar Amagasaki, Japan
Date of test	2023-11-27 until 2023-11-29	2023-11-28

Test engine:

Model	EY26DF
Serial no.	0279
No. of cylinders	8
Power [kW]	1960 @720 rpm

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
Flexible hoses to be Type Approved by DNV.

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.

The explosion protection of the gas admission valves does not comply with the hazardous area zone definition of the IGF Code, paragraph 12.5.1 and -2. For installation of engines on ships subject to that Code, proof of suitability for the intended use, either by (a) explosion protection certification, or (b) any other suitable measures in addition to the existing explosion protection level of the valve, shall be documented in the safety concept and approved accordingly. Additional measures (b) are subject to final acceptance by the relevant flag state administration for ships subject to the IGF Code.

END OF CERTIFICATE