DNV·GL

Certificate No:
TAM000000E

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Diesel Engine

with type designation(s)
6EY18(A)L(W)

Issued to
Yanmar Co., Ltd. Amagasaki Plant
Amagasaki Hyogo Pref, Japan

is found to comply with
Det Norske Veritas' Rules for Classification of Ships

Application :

The approval is valid for auxiliary duty.

Rating **see page two**

This Certificate is valid until **2019-06-18**.

Issued at **Høvik** on **2015-06-19**

for **DNV GL**

DNV GL local station: **Kobe**

Approval Engineer: **Dag Harald Williksen**

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.

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Job Id: **262.1-005843-6**
Certificate No: **TAM000000E**

Product description
Four Stroke Diesel Engine

Cylinder bore: 180 mm
Piston stroke: 280 mm
No. of cylinders: 6

Application/Limitation
The approval is given for auxiliary duty and is based on the following main data:

Engine type	6EY18L(W)	6EY18AL(W)
Mean ind. pressure[bar]:	26,1/23,62	26,2/25,2
Max cyl. pressure [bar]:	190	190
Rated cont. output [kW]:	615	800
Corresponding to [rpm]:	720/750	900/1000

Tests carried out
Type test carried out on 2009-03-24 with engine type 6EY18AL, engine no 0701FXH, at Yanmar Amagasaki Plant, Japan.

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

Periodical assessment
For retention of the Type Approval, a DNV surveyor shall perform a survey every second year and before the expiry date of this certificate to verify that the conditions of the type approval are complied with.

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. The main scope of the Periodical Assessment will normally include:

- Verification of the Type Approval applicant's production and quality system w.r.t. ensuring continued consistent production of the Type Approved products at the Type Approval applicant's own premises and at other companies that are given the responsibility for manufacturing of the products.
- Review of the Type Approval documentation and that this is still used as basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking.

In cases 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
Foundation arrangement to be submitted for each installation according to the Rules, Pt. Ch.3 Sec.1 A500 – Documentation of arrangement.

Torsional vibration calculations to be submitted for each installation according to the Rules Pt.4, Ch.3, Sec.1, G - Vibration.

Signboards according to the Rules Pt.4, Ch.3, Sec.1, C 406.
Flexible hoses to be Type Approved by DNV.

Field instrumentation, including test facilities for sensors is not covered by this type approval and must be submitted for each installation according to the Rules Pt.4 Ch.9 Sec.5 - Control and Monitoring System.

Electric cables and installation of this is 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.

The approval does not include driven member.

END OF CERTIFICATE