

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BRN
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Lifeboat / rescue boat propulsion engine**

with type designation(s)
4LHA-HTP/DTP/STP

issued to

Yanmar Norge AS
Skedsmokorset, Norway

is found to comply with the Implementing Regulation (EU) 2025/1533 for
Item no. **MED/1.36 (Row 1 of 1)**

according to the following requirements:

**SOLAS 74 Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) IV, IMO Res. MSC.48(66)-(LSA Code) V, IMO
MSC.1/Circ.1630/Rev.2, SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3**

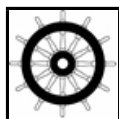
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-09-30**

Expiry date: **2030-09-29**

DNV local unit:
Oslo Maritime and CAP

Approval Engineer:
Dag Harald Williksen



Notified Body
no.: **0575**

for **DNV AS**

Christine Mydlak-Röder
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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

4-stroke, water cooled, inboard engines

Cylinder bore: 100 mm
Piston stroke: 110 mm
No. of cylinders: 4 In-line

Power @ Speed, Technical details:

4LHA-HTP: 118 kW @ 3300 rpm,	Engine starter - S13-41A or S13-332,	Alternator - LR180-03
4LHA-DTP: 147 kW @ 3300 rpm,	Engine starter - S13-41A or S13-332,	Alternator - LR180-03
4LHA-STP: 177 kW @ 3300 rpm,	Engine starter - S13-41A or S13-332,	Alternator - LR180-03

Application/Limitation

The engines are approved for use as propulsion engines for life/rescue boats.

Type Examination documentation

Tests carried out

Passed the tests required in IMO Resolution A.689 (17) as amended by IMO Resolution MSC.81(70) with reference to MSC.1/Circ.1630 for lifeboat and rescue boat propulsion inboard engine as follows:

- 4.3.2.3 Cold start test, LSA Code 4.4.6.2; MSC.81(70) 1 /6.10.2 - 6.10.4
- 4.3.2.4 Engine-out-of-water test, LSA Code 4.4.6.3; MSC 81(70) 1/6.10.5
- 4.3.2.5 Submerged engine test, LSA Code 4.4.6.4; MSC.81(70) 1 /6.10.6
- 4.3.2.6 Engine inversion test, LSA Code 4.6.4.2; MSC.81(70) 1 /6.14.6 - 6.14.8

Tests documented by ABS EC Type Examination Certificates nos. 99-LD 6351-X, 99-LD 6468-X-1 and testing of Yanmar engine models with SOLAS Conversion kit (ref. annex 53, 54 and DNV EC Type-Examination Certificate MED-B559).

Function Test Report Document No. G2-19175-1710 Engine Inversion Test 4LHA-STP with Ashi Denso turnover switch arrangement. Test carried out 2010-05-25.

Cold start test carried out at Yanmar Norge AS, Skedsmokorset, Norway, and attended by DNV on the 2024-01-12 with engine type 4LHA-STP, engine serial no 6624, test report dated 2024-01-12.

Marking of product

The product is to be indelibly marked with name, address of manufacturer and type designation. The Mark of Conformity (wheel-mark) can be affixed when the conditions on page 1 have been met.