

**EC-TYPE EXAMINATION  
CERTIFICATE (MODULE B)**

Certificate No:  
**MEDB00000S6**  
Revision No:  
**1**

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 GL AS under the authority of the Government of Norway.

**This is to certify:**

**That the Rescue boat propulsion engine-outboard engine**

with type designation(s)

**Mercury/Mariner 2-stroke Outboard Engines "See product description page 2"**

Issued to

**Mercury Marine - Division of Brunswick  
Fond Du Lac WI, United States**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2017/306,**

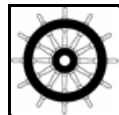
**item No. MED/1.37. SOLAS 74 as amended, Regulation III/4 & X/3 and LSA Code**

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

This Certificate is valid until **2021-02-11.**

Issued at **Høvik** on **2017-10-23**

DNV GL local station:  
**Certification & Inspection  
Services**



for **DNV GL AS**

Approval Engineer:  
**Tin Nguyen**

Notified Body  
No.: **0575**

**Vidar Dolonen**  
**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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-001252-12**  
Certificate No: **MEDB00000S6**  
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## Product description

2-stroke, watercooled, petrol fuelled, outboard engines

Engine designation (Platform)	Mercury/Mariner 25/30 <b>(Note 1)</b>	Mercury/Mariner 40/50 <b>(Note 2)</b>	Mercury/Mariner 50/55/60 <b>(Note 3)</b>	Mercury/Mariner 75/90 <b>(Note 4)</b>
Power (HP)	25/30	40/50	50/55/60	75/90
Type	2-stroke carbureted	2-stroke carbureted	2-stroke carbureted	2-stroke carbureted
Cylinders	2	3	3	3
Bore (mm)	68	68	76	89
Stroke (mm)	59	64	71	75

**Note 1)** This platform includes standard 25-30 engines. The difference in power is made by altering the induction/ignition module.

Place of production: TMC, Komagane, Japan.

**Note 2)** This platform includes standard 40-50 and Jet version 40 engines. The difference in power is made by altering the induction reed valve and carburetor jetting. The engine has to be fitted with a purging system in order to pass the inversion test for fast rescue boats.

Place of production: TMC, Komagane, Japan.

**Note 3)** This platform includes standard 50-55-60 engines. The difference in power is made by altering the induction/ignition module.

Place of production: Mercury Marine, Fond du Lac, WI, Plant 15.

**Note 4)** This platform includes standard 75-90 engines. The difference in power is made by altering the induction/ignition module.

Place of production: Mercury Marine, Fond du Lac, WI, Plant 15.

## Application/Limitation

The engines are approved for use as propulsion engines for:

Rescue boats and life boats (Notes 1,3,4)

Rescue boats, fast rescue boats and life boats (Note 2).

To enable the engine to pass the inversion test and to comply with the LSA Code requirements for fast rescue boats (Note 2), the engine must be equipped with a "post immersion restart system" (PIRS). The two systems approved for this purpose are the E.P.Barrus PIRS and E.P.Barrus Fast PIRS - systems, manufactured by E. P. Barrus Ltd, Oxfordshire, UK.

## Type Examination documentation

Operation and maintenance manuals for the above specified engines.

Applicable Mercury outboard brochures.

Installation documents: 90-10177970 396 for 25/30 HP. 90-824605940 1093 for 40 HP, 90-10175010 1-1000 for 60 HP and 90-10181020 201 for 90 HP.

E. P. Barrus Ltd. Brochure and technical specification of PIRS and FAST PIRS system.

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## Tests carried out

<b>Engine designation</b>	Mercury/Mariner 25/30	Mercury/Mariner 40/50	Mercury/Mariner 50/55/60	Mercury/Mariner 75/90
<b>Test Report</b>	DNV ANT07-1183-1	ANT12-1240-4	Marine Power Nederland, Report S/N0998316	Sowester Ltd., Report S/No 09860112
<b>Results</b>	Passed the test for lifeboat/rescue boats propulsion	Passed the test for lifeboat and fast rescue boats propulsion	Passed the test for lifeboat/rescue boats propulsion	Passed the test for lifeboat/rescue boats propulsion

## Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation, and date of manufacture. In addition, the manufacturer shall affix the Mark of Conformity followed by the DNV GL Notified Body No. 0575 and the production year (4 digits).

## Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Directive 2014/90/EU on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE