



# DET NORSKE VERITAS

## EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2010/68/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-7826**

This is to certify that the  
**Rescue boat propulsion engine-outboard engine**

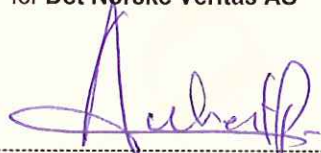
with type designation(s)  
**Mercury Outboard Engines "See product description page 2"**

Manufacturer  
**Mercury Marine**  
**Fond du Lac WI, United States**

is found to comply with the requirements in the following Regulations/Standards:  
Annex A.1, item No. A.1/1.37 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/34 & X/3 and LSA Code

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

Høvik, 2012-06-26  
for **Det Norske Veritas AS**


  
for **Marianne Strand Valderhaug**  
Head of Department



Notified Body No.: **0575**

DNV local office:  
**Stockholm**

This Certificate is valid until  
**2017-06-25**

  
**Hans-Kristian Eriksen**  
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-7826  
 Item No.: A.1/1.37  
 Job Id.: 344.1-003565-1

## Product description

Engine designation (Platform)	Mercury 40/50/60 (Note 1)	Mercury 25/30 (Note 2)	Mercury 15/20 (Note 3)	Mercury 40 (Note 4)	Mercury 40/50 (Note 5)
Power (HP)	40/50/60	25/30	15/20	40	40/50
Type	4-stroke	4-stroke	4-stroke	4-stroke	2- stroke
No. of Cylinders	4	3	2	3	3
Bore (mm)	65	61	61	65	68
Stroke (mm)	75	60	60	75	64

**Note 1)** This platform includes standard 40-50-60, BF (Big Foot) version 40–50-60 and Jet version 40 engines. The difference in power is made by altering the electronic ignition module.

**Note 2)** This platform includes standard 25-30 and Jet version 30 engines. The difference in power is made by altering the electronic ignition module.

**Note 3)** This platform includes standard 15-20 and BF (Big Foot) version 15 engines. The difference in power is made by altering the electronic ignition module.

**Note 4)** This platform includes standard 40 engines.

**Note 5)** This platform includes standard 40-50 and Jet version 40 engines. The difference in power is made by altering the induction read 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.

## Application/Limitation

The engines are approved for use as propulsion engines for Life boats and rescue boats (Note 1-4) and life boats, rescue boats and fast rescue boats (Note 5).

To enable the engine to pass the inversion test and to comply with the LSA Code requirements for fast rescue boats, 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.

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





Certificate No.: MED-B-7826  
Item No.: A.1/1.37  
Job Id.: 344.1-003565-1

## Tests carried out

<b>Engine designation</b>	Mercury 40/50/60	Mercury 25/30	Mercury 15/20	Mercury 40	Mercury 40/50
<b>Test report</b>	ANT12-1240-5	ANT12-1240-2	ANT12-1240-1	ANT12-1240-3	ANT12-1240-4
<b>Result</b>	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat and fast rescue boats propulsion

All test were carried out at Brunswick EMEAs premises in Verviers, Belgium on the dates of 2012-04-25 to 26 and witnessed by personal from DNV Antwerpen office.

## Marking of product

The product shall be marked with manufactures trademark, type and serial number for identification

## Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC 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





Certificate No.: MED-D-1449  
Item No.: A.1/1.37  
Job Id.: 344.1-001264-3

**APPENDIX, REV. NO. 1**

**QS - Certificate of Assessment – EC, Certificate no. MED-D-1449**

Type designation	EC Type-Examination Certificate No.	Expiry date	DNV QS Assess. Report dated
Mercury 15/20, 25/30, 40/50/60 and 2-stroke 40/50	MED-B-7826	2017-06-25	2011-01-07
Mercury 25, 30, 40, 60, 90	MED-B-6670	2016-01-01	2011-01-07

Places of production:

Mercury Marine, Fond de Lac, WI, USA  
Mercury Marine, Suzhou, China  
Tohatsu Marine Co. (TMC), Komagane, Japan


The manufacturers complies with the Council Directive 96/98/EC on Marine Equipment and is allowed to affix the Mark of Conformity followed by the DNV identification number 0575 and the two last digits of the number of the year in which the product is produced.

Example: 0575/12

The manufacturer shall issue a Declaration of Conformity for each product with reference to the EC Type-Examination Certificate and this QS – Certificate of Assessment – EC.

Place and date: Høvik, 2012-07-04

for DET NORSKE VERITAS AS

  
\_\_\_\_\_  
Surveyor



Name in block letters:  
Hans-Kristian Eriksen