DNV·GL

Certificate No:
MEDB00000TX

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Winches for survival craft and rescue boats

with type designation(s)
BWE-15-030 / BWE-15-180

Issued to
Oriental Precision Machinery Co., Ltd.
Busan, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.41a and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/16, III/17, III/23, III/24, III/34, X/3, LSA Code and 2000 HSC Code
Annex A.1, item No. A.1/1.41d and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/16, III/17, III/23, III/24, III/34, X/3, LSA Code and 2000 HSC Code

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

This Certificate is valid until **2021-04-13**.

Issued at **Høvik** on **2016-04-14**

for **DNV GL AS**

DNV GL local station:
Pusan

Approval Engineer:
Paulo Correia

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

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Product description

Lifeboat/Rescue boat Winch with: BWE-15-030
- Maximum Working Load, MWL = 6 163 kg
- Maximum Hoisting Load, MHL = 3 200 kg

Lifeboat/Rescue boat Winch with: BWE-15-180
- Maximum Working Load, MWL = 6 163 kg
- Maximum Hoisting Load, MHL = 3 300 kg

Application/Limitation

- Grades of materials as stated on drawings are to be delivered with makers product certificates (3.1).

- The various components transferring the load like wires, shackles, hooks, etc. are to comply with international standards or codes and are to be delivered with manufacturer's certificate, confirming a safety factor minimum 6 compared to the sustained load.

- Falls to be used with the launching appliance shall be of rotation-resistant and corrosion-resistant steel wire rope.

- Installation, onboard testing (MSC.81(70) part.2), support to the deck structure, and connection to power supply are not included in this examination and shall be accepted by attending surveyor in each case.

Type Examination documentation

Tests carried out

The tests were witnessed by Bureau Veritas as per Prototype test report dated 1997-05-27 and Prototype test report No. TA-15-030/180 dated 2009-06-01.

Marking of product

Marking shall be implemented in accordance with the LSA Code, item 1.2.2.9:
- Type designation, manufacturer name and serial number
- Maximum Working Load, MWL

END OF CERTIFICATE