DNV·GL

Certificate No:
MEDB00000S5

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)
A-394

Issued to
Vestdavit AS
LAKSEVÅG, Norway

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 **2021-02-11**.

Issued at **Høvik** on **2016-02-12**

for **DNV GL AS**

DNV GL local station:
Laksevåg

Approval Engineer:
Finn-Roger Sørland

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

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Product description

Lifeboat/Rescue boat Winch with;

- Maximum Working Load, MWL = 600 kN (2 layers)
- Maximum Hoisting Load, MHL = 600 kN
- Wire Rope Diameter = 20 mm
- The winch is delivered in 2 versions: Drum width 400 mm or 220 mm

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

Prototype test according to IMO Resolution MSC 81(70) carried out 2010-09-23, witnessed by LR, Bergen.
FAT testing (for 220 mm drum width) carried out 2012-04-16, witnessed by DNV, Bergen.

Marking of product

Marking shall be implemented in accordance with the LSA Code, item 1.2.2.9:

- Safe working load, SWL
- Type designation and serial number

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