

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 Launching appliances using fall (davits)

with type designation(s)
TDB-7001

Issued to

Vestdavit AS
LAKSEVÅG, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170**,
item No. MED/1.21. SOLAS 74 as amended, Regulation III/4, III/23, III/33, III/34 & X/3,
LSA Code and 2000 HSC Code 8

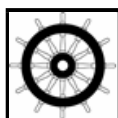
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-12-29**.

Issued at **Høvik** on **2020-12-30**

DNV GL local station:
Norway Fleet in Service, West

Approval Engineer:
Paulo Correia



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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 300,000 USD.



Product description

Single fall telescopic rescue boat davit with Maximum working load, MWL = 7 000 kg

Application/Limitation

- Grades of materials as stated on drawings are to be delivered with maker's product certificates (3.1).
- The various components transferring the load like wires, shackles, hooks, etc. are to comply with international standard or code 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, on-board 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

<u>Drawing No.</u>	<u>Rev.</u>	<u>Title(s)</u>
101955	1	Rod $\varnothing 30 \times 40$
130271	2	Bracket for Encoder Assembly
130436	2	Bracket for Encoder
130973	1	Plate 148mmx120mm t=40mm
132939	0	Encoder Bracket for Winch House
133070	0	Encoder Bracket Winch Assembly
133641	1	Line Puller Wheel D=250 t=45
240x160	0	VD sign SS
A-15709	1.1	Hydraulic Diagram on Davit
I-1006083	4	PL 10x100x40 Locking Plate
I-1006084	2	Plate 120x40 t=10
I-1037549	0	Adapter acc. Shock absorber
VD-CR-TDB-7001	01	Stress analysis report
VD-TM-91975	00 10.11.2020	Technical user manual
VD107668	1.1	Shock Absorber Assembly
VD107673	1.1	Shock absorber Sheave house
VD107681	1.1	Sheave house $\varnothing 440$ - $\varnothing 70$ Weldment
VD107682	1.1	Pin $\varnothing 55$ For Shock Absorber
VD107684	1	Welded Flange
VD107685	1.1	Distance Pipe
VD107686	1	Locking Plate
VD107699	1.1	Inner Beam Assembly
VD107700	1.1	Inner Beam Welded Assembly
VD107703	1.1	Pipe 400x400x10 Inner Beam
VD107704	1	Wire Sheave House Welded Assembly
VD108139	1	End Stop Welded
VD108144	1	End Stop Assembly

VD108147	1	Bracket for Limit Switch
VD108150	1	End Stop Slider
VD108218	1.1	Assembly Without Guiding
VD108220	1.1	Energy Chain Tray Assembly
VD108221	1.1	Energy Chain Tray Weldment
VD108222	1	Front Bracket
VD108224	1.1	Winch Foundation
VD108225	1.1	Energy Chain Arm Assembly
VD108226	1	Energy Chain Connector
VD108227	1.1	Energy Chain Arm
VD108269	1.1	Middle Beam Assembly
VD108271	1	Fore Cylinder Hinge
VD108275	1.1	Middle Beam
VD108277	1.1	Sliding Plate Assembly
VD108280	1.	Sliding Plate Assembly
VD108282	1	Guiding Foundation Welded
VD108332	1	Bracket for Accumulator
VD108335	1	Bracket for Floodlight
VD108343	1.1	Guiding Arms Welded
VD108344	1	Guiding Arms Assembly
VD108347	1	Guiding Foundation Assembly
VD108646	1.1	PL15x4650x1926 Outer Beam
VD108653	1	Outer Beam Assembly
VD108654	1.	Sliding Plate Assembly
VD108655	1.1	Sliding Plate Assembly
VD108656	1.1	Sliding plate Assembly
VD108661	1	Outer Beam Weldment
VD108662	1	Round Bar ϕ 125 L=10 Spacer
VD108844	1.1	PL 20x4650x1579 Mid Beam
VD108881	1	Cylinder Guiding Hinge
VD108916	1.	Sliding Plate Assembly
VD108918	1.1	Sliding Plate Assembly
VD108920	1	Pin ϕ 70 L=172 Sheave House
VD108923	1	PL 40x200x70 Cylinder Hinge
VD108924	1	PL 6x374x374 Inner Beam
VD108925	1	Bushing ϕ 75 ϕ 60 L=43
VD108926	1	Pin ϕ 80 L=155 Guiding Cylinder Hinge
VD108934	1	PL 10x334x150 Inner Beam Wire Guard
VD108937	1	Round Bar ϕ 20 L=496 Wire Guide
VD108978	1	Rear Cylinder Hinge Welded Assembly
VD108981	1.1	Round Bar ϕ 50 L=134 Middle Beam
VD108982	1	Spacer ϕ 100/50 L=3 Middle Beam
VD108985	1	Round Bar ϕ 60 L=160 Middle Beam
VD108986	1	Spacer ϕ 110/60 L=3
VD109011	1	Main Cylinder Hinge Outer Beam
VD109012	1	Main Cylinder Hinge Aft Outer Beam
VD109013	1	Cylinder Hinge Weldment Outer Beam

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Certificate No: **MEDB00006RV**

VD109122	1	Guiding Hinge Welded
VD109124	1	Guiding Cylinder Hinge Welded
VD109125	1	Round Bar $\varnothing 50$ L=145 Guiding Arm Hinge
VD109126	1.1	Wirepuller Assembly
VD109183	1	Bushing $\varnothing 70/\varnothing 55$ L=40 Outer Beam
VD109184	1	Round Bar $\varnothing 70$ L=177 Davit Main Hinges
VD109217	1	PL 50X350x150 Cylinder Hinge Cap
VD10925	1	Bom Part List
VD109254	1	Full Assembly
VD110447	1	Accumulator Fastener One Point
VD110453	1.1	Sliding Plate Assembly Middle Beam
VD110454	1	Spacer $\varnothing 155/\varnothing 80$ T=3
VD110457	1	Winch Block w/Adapter
VD110516	1	PL 20x500x80 Sliding Plate
VD110517	1	PL 20x500x100 Sliding Plate
VD110519	1.1	PL 20x500x80 Sliding Plate Mid Beam
VD110520	1	PL 20x500x80 Sliding Plate Mid Beam
VD110521	1	PL 20x500x100 Sliding Plate Mid Beam
VD110526	1	PL 15x500x80 Sliding Plate Outer Beam
VD110527	1	PL 20x500x80 Sliding Plate Outer Beam
VD110528	1	PL 20x500x100 Sliding Plate Outer Beam
		Calculation for hydraulic cylinder = 82282
		Calculation for hydraulic cylinder = 82281
		Calculation for hydraulic cylinder = 82362

Tests carried out

Prototype tested in accordance with IMO Resolution MSC.81(70) Part 1.

<u>Description</u>	<u>Report</u>	<u>Date(s)</u>	<u>Witnessed by</u>
VD 109254 rev.1	MSC/Circ.980	10-08-2020	DNV GL Redzikowo, Poland

Marking of product

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

- Type designation, manufacturer name and serial number
- Maximum Working Load, MWL

END OF CERTIFICATE