EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007UB

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 AS under the authority of the Government of Norway.

This is to certify:

That the Launching appliances using fall (davits)

with type designation(s)
PLD-9000

Issued to
Vestdavit AS
LAKSEVÅG, **Norway**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2021/1158,**
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 **2027-06-08**.

Issued at **Høvik** on **2022-06-09**

DNV local station:
Gdansk CMC

Approval Engineer:
Paulo Correia

Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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

Lifeboat/Rescue boat davit with:

- Maximum Working Load, MWL = 9000 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

Drawing No.	*Rev.*	*Title(s)*
VD-IM-92117	00	USER MANUAL - PREPARATION & INSTALLATION
VD-CR-PLD-9000	1	Calculation's report PLD-9000
VD-CR-92117	01	Calculation's report PLD-9000
VD117255	1	Wire clamp Ø24
VD117157	1	PL 30 x 350 x 130
VD117154	1	Round Bar Ø64, L=420
VD117151	1	Round Bar Ø24, L=325
VD117150	1	Round Bar Ø24, L=340
VD117148	1	Rubber PL 50, 200 x 200
VD117055	1	Cross beam Welded - Guiding
VD117052	1	Flange plate - Guiding
VD116999	1	Foot hinge bearing
VD116992	1	M24 eye bolt welded
VD116989	1	Adapter for Shock Absorber
VD116918	1	PL 20 x 903 x 327
VD116917	1	PL 15 x 80 x 440
VD116913	1	Limit switch assembly
VD116912	1	Round Bar Ø35, L=18
VD116909	1	Round Bar Ø45, L=25
VD116908	1	Round Bar Ø35, L=30
VD116907	1	PL 20 x 25 x 395
VD116899	1	Limit switch assembly
VD116897	1	Limit switch assembly
VD116896	1	Side part
VD116878	1	Spacer Ø=45, ø=25, Thickness=3
VD116875	1	Boat support Welded
VD116874	1	Keel support base assembly
VD116873	1	Keel support bracket
VD116792	1	Shock Absorber Assembly (16316)
VD116776	1	Bracket for valve block
VD116767	1	Foot hinge bearing
VD116757	1	Sheave House

VD116744	1	Pin - Foot hinge
VD116742	1	Bolt Ø=40, L= 20
VD116741	1	Line puller bracket
VD116740	1	Hinge bolt
VD116739	1	Plastic Bushing
VD116738	1	Hydraulic wirepuller - Ø250 wirepuller wheel
VD116731	1.1	Deck hydraulic diagram
VD116706	1	Cylinder hinge
VD116703	1	Cylinder hinge
VD116702	1	Pin Foot hinge
VD116701	1	Foot hinge
VD116698	1	Foot hinge assembly
VD116670	1	Davit leg support plate
VD116637	1	Sheave house Ø470
VD116628	1	Sheave house Ø470
VD116626	1	PL 15 x 200 x 345
VD116473	1	Brackets on Davit structure
VD116287	1	Valve Block incl. valves
VD116281	1	Lock plate for bolt ø90mm
VD116228	1.1	General arrangement Davit PLD-9000
VD116189	1	PL 13 x 505 x 55
VD116174	1	Counterweight weldment
VD116172	1	Spacer Ø=120, ø=51, Thickness=15
VD116171	1	Spacer Ø=130, ø=71, Thickness=10
VD116170	1	Spacer Ø=85, ø=46, Thickness=13
VD116169	1	PIN ø50 L=182
VD116159	1	PIN ø70 L=138
VD116158	1	PIN ø45 L=150
VD116157	1	Round Bar ø130 L=35
VD116154	1	PIN ø 85 x 582
VD116119	2	Locking plate - 10 x 120 x 40
VD115715	1	PL 40 x 120 x 148
131288	2	External Block Assembly for C-394-3-V-S
VD115677	1	PL 10 x 80 x 40
VD115621	1	PL 10 x 100 x 40
VD115467	1	Round bar Ø 100 x 164
VD115462	1	PL 10 x 290 x 60
VD115455	1	Sheave house Ø470
VD115390	1	Guiding Cylinder hinge - ASSEMBLY (DECK)
VD115389	1	Pin Ø35, L=109
VD115387	1	Locking plate
VD115385	1	Guiding cylinder hinges
VD115384	1	Guiding arm hinge Welded
VD115382	1	Arm welded assembly
VD115381	1	Bronze bearing
VD115380	1	Arm assembly
VD115379	1	Guiding hinge (Deck)
VD115376	1	Pin - Ø50, L=122
VD115375	1	Guiding hinge (Deck)
VD115372	1	Cross beam assembly
VD115371	1	Guiding arm assembly
VD115370	1	Keel support bracket
VD115368	1	Boat support Welded

VD115357	1	Keel Support Welded structure
VD115356	1	Keel Support
VD115341	1	Cone interface
VD115340	1	Cone interface
VD115339	1	Sliding assembly
VD115338	1	Docking head - SLIDING ASSEMBLY
VD115336	1	Trim assembly
VD115334	1	Trim assembly
VD115333	1	Docking head Top assembly
VD115330	1	Docking head top assembly
VD115329	1	Docking head Top assembly
VD115328	1	Docking head top assembly
VD115327	1	Dicking head assembly
VD115315	1	PLD-900 Davit assembly
VD115310	1	Pin ø15
VD115309	1	Bronze bearing ø45
VD115308	1	Keep cylinder hinge
VD115307	1	Keep cylinder hinge plate
VD115306	1	Keep cylinder hinge
VD115305	1	Cylinder hinge davit welded ø70
VD115198	1	Docking head support plate
VD115197	1	Top block welded plate
VD115196	1	Top block welded plate
VD115195	1	Top block Welded
VD115191	1	Foot hinge davit Welded Ø80
VD115061	1	Bottom of Sheave H Ø440-470-555
VD115046	1	Davit structure
VD109324	1	Plastic Spacer Ø160/ø82, T=5
VD109320	1	Plastic Spacer Ø140/ø72, T=5
VD109312	1	Plastic Spacer Ø100/ø52, T=5
VD109305	1	Plastic Spacer Ø70/ø37, T=3
VD108623	1	D-Fender
VD107722	1	Movable fender
VD104903	1	Docking head - ACCUMULATOR ASSEMBLY
VD102742	1	EMERGENCY SWING ASSY
D115392	1	Support plate - Plate
D115391	1	Guiding cylinder hinges - WELDED ASSEMBLY (DECK)
D115388	1	Guiding cylinder hinges - WELDED ASSEMBLY
141970	1	Emergency swing out handle
133641	1	Line puller wheel D=250 t=45

Tests carried out

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

Description	*Report*	*Date(s)*	*Witnessed by*
PLD-9000	MSC.1 Circ. 1632	2021-12-20	DNV 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