DNV·GL

Certificate No:
TAS000002J

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Launching Structures for Lifesaving

with type designation(s)
BD-FF66 Free-fall Lifeboat Davit

Issued to
Boatbuilding Yard, Qingdao Beihai Shipbuilding Heavy Industry Co., Ltd.
Qingdao Shandong, China

is found to comply with
IMO SOLAS 1974 as amended and the LSA Code

Application :

Launching appliance for free-fall lifeboat

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2019-08-10**.

Issued at **Høvik** on **2015-08-11**

for **DNV GL**

DNV GL local station: **Qingdao**

Approval Engineer: **Paulo Correia**

Aldo Matteucci
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Free-fall lifeboat davit with;
- Maximum Working Load, MWL = 65 kN
- Wire rope diameter: 20 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 Approval documentation

		PROTOTYPE TEST REPORT
		CALCULATION FOR STRENGTH CHECK
	A0	ROLLER UNIT
	A0	BD-FF66 FREE-FALL LAUNCHING ARRANGEMENT
	A0	RAMP
	A0	FORE SUPPORT LEG
	A0	MID. TRAVERSE BEAM
	A0	AFT TRAVERSE BEAM
	A0	SLIDE WAY (2 DRWS.)
	A0	PIVOT
	A0	SHAFT
	A0	CYLINDER PIN
	A0	WIRE ROPE SYSTEM
	A0	ARM (2 DRWS.)
	A0	SEAT A
	A0	SEAT B
	A0	WINCH SEAT
	A0	LIMIT UNIT
	A0	SEAT C
	A0	FLOATING BLOCK ASS'Y
	A0	TRAVERSE
	A0	SHEAVE
	A0	SHAFT
FF66-08	A0	HYDRAULIC SYSTEM
FF66-08-4	A0	HYDRAULIC CYLINDER (YG2-125/80-2500)
FF66-09	A0	LASHING UNIT
FF66-09/1	A0	CHAIN
FF66-09/2	A0	SEAT
FF66-10	A0	AUX. LASHING UNIT
FF66-10/1	A0	PIPE POLE
FF66-11	A0	FASTING UNIT
FF66-13	A0	TACKLE I
FF66-13/1	A0	SEAT

FF66-13/3	A0	SHAFT
FF66-14	A0	TACKLE II
FF66-14/1	A0	SEAT
FF66-EE-01	A0	ELECTRIC DIAGRAM
FF66-EE-02	A0	CONTROL SYSTEM BOX OUTLINE VIEW
PV-12502/3	A0	SHEAVE
YSB35-72-02		DRUM

Tests carried out

Prototype testing according to IMO Resolution MSC 81(70) carried out 2010-11-29 and witnessed by DNV GL Qingdao.

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

Certificate Retention Survey

For retention of the Type Examination, DNV GL surveyor shall perform a survey every second year and before expiry date of this certificate in order to verify that the conditions of the type examination are complied with.

END OF CERTIFICATE