

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 Launching appliances using fall (davits)

with type designation(s)
Davit HMD A60

Issued to

MacGregor Norway AS
Kristiansand S, Norway

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/1.21 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/23, III/33, III/34 & X/3, LSA Code and 2000 HSC Code 8

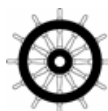
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2020-12-03**.

Issued at **Høvik** on **2015-12-04**

DNV GL local station:
Kristiansand S

Approval Engineer:
Ruud, Ola E.



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Product description

- Davit with max. workload, SWL =60 kN

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

<i>Drawing No.</i>	<i>Rev.</i>	<i>Title</i>
1000043969	1	Mechanical assembly for 6 tons davit
1000043971	0	Found., brng. end steel assembly
20115835	3	Steel assembly
SP-1910	A	Structural Design Report - A60 DAVIT
20118859	0	Jib leg steel assembly
20118877	4	Middle section steel assembly
20119194	2	Upper jib steel assembly
20119333	3	Main assembly
20117186	0	Jib leg bracket steel assembly
20117788	0	Cylinder bracket steel assembly
	03	Prototype Factory Acceptance Test Procedure
20119338	0	Mech bolt Ø80 steel assembly
20119343	0	Mech bolt Ø70 steel assembly
20119352	0	Mech bolt Ø70 steel assembly
A4-2812		Wiresheave for 22 mm wire
D.A60.012.GA01	0	General arrangement

Tests carried out

Job Id: **344.1-002832-8**
Certificate No: **MEDB00000ES**

Testing according to IMO MSC 81 (70) carried out 29-09-2010, witnessed by DNV Kristiansand.

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

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