DNV·GL

Certificate No:
TAS000006H

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lift Component

with type designation(s)
15m T LARS A-Frame

Issued to
Hawboldt Industries (1989) Ltd.
CHESTER NOVA SCOTIA, Canada

is found to comply with
Standard for Certification 2.22 Lifting Appliances, 2008

Application :

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

THIS CERTIFICATE REPLACES S-7470 WHICH EXPIRES JUNE 30TH 2017.
This Certificate is valid until **2017-06-30**.

Issued at **Houston** on **2015-10-20**

for **DNV GL**

DNV GL local station: **Approval CMC – Houston**

Approval Engineer: **Xiangwen (Maggie) Wang**

Nick Prokopuk
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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

15 Mt Launch and Recovery System, A-Frame

Application/Limitation

- Safe Working Load (Deployed) [1] : 43,250 lbs
- Safe Working Load (Latched) [2] : 29,762 lbs
- SWL for Lifting LARS Frame – Slings (4 Equal Legs) : 20 tons
- Min. Design Temperature : -4 °F
- Max. Design Temperature : 86 °F
- Wire Rope Entry Angle from Winch (below horizontal) : 15°

1) The design load considers dynamic amplification factors of 3.0 when deployed
2) The design load considers dynamic amplification factors of 3.0 for the latch finger load and 1.25 when luffing (i.e. ROV is latched).

Type Approval documentation

Tests carried out

DNV Survey Report No. HAL-PP062085-1, 15 MT Launch and Recovery System (LARS) A-Frame

Marking of product

For traceability the following marking is to be carried out on each prodcut:

1. Serial No.
2. Manufacturer's name or trademark
3. Marking as specified in DNV's 2.22 & additional marking at manufacturer's option

Periodical assessment

1. Procedures related to testing, welding, NDT, and other quality control requirements are to be reviewed/approved by DNV's local surveyor
2. DNV ref.: Project No. PP068879/PP145822

END OF CERTIFICATE