

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Hook**with type designation(s)
Painter hook HPHA 5

Issued to

H. Henriksen AS
TØNSBERG, Norway

is found to comply with

DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances**Application :****Painter hook**Issued at **Høvik** on **2020-09-22**for **DNV GL**This Certificate is valid until **2024-09-21**.DNV GL local station: **Sandefjord**Approval Engineer: **Mats Asvald Innstø**

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.

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.



Job Id: **262.1-011860-5**
Certificate No: **TAS00000M6**
Revision No: **1**

Product description

Equipment type: Survival craft towing painter with remote release device.
Application: Offshore
Design dynamic factor (DAF): 1.3
Maximum tension in towing line (DAF included): 5 tonnes
Design temperature: -20 degrees Celsius

Application/Limitation

- All materials are to be delivered with 3.1 certificates (EN 10204:2004), documenting mechanical properties and chemical composition in accordance with the type approval documentation, and shall comply with DNV GL Standard for Certification ST-0378 Offshore and platform lifting appliances.

Type Approval documentation

<u>Drawing No.</u>	<u>Rev.</u>	<u>Title</u>	<u>Status</u>
HH043388	A1	Hovedbolt Ø30-124	Type approved
HH023379	C3	Sideplate 15x523x771	Type approved
HH023378	D3	Sideplate 15x523x771	Type approved
HH013377	B	Krokemne 50x383x171	Type approved
HH003095	C10	Henriksen Hooks - HPHA 5,0 WLL 5000kg SF 4,0/Made in Aluminium - ASSEMBLY	For information
1-3675RX	0	Report H. Henriksen-Kroktest HPHA5	For information

Tests carried out

No prototype test is required for this type of equipment in ST-0378.

Report from overload test witnessed by DNV GL Sandefjord, signed 2017-01-20 and documented in report N141CJ82 covers the following revision:

- HH023378, Revision: -D, Marked B-16715, Charge no:70158692 - Sideplate ALU 6082
- HH023379, Revision: -C, Marked B-16715, Charge no: 70158692 - Sideplate ALU 6082
- HH013377, Revision: -B, Marked B-16715, Charge no: 60316 - Krokemne ALU 6082

Required testing

In order to obtain a DNV GL Product Certificate, testing is to be carried out according to DNV GL Standard for Certification ST-0378 Offshore and platform lifting appliances, Section 14.

Marking of product

Each painter hook shall be marked according to DNV GL Standard for Certification ST-0378 Offshore and platform lifting appliances, Section 14.

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.

END OF CERTIFICATE