Certificate no.:
TAS00004G4

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Hook

with type designation(s)
Forged steel self-locking hooks

issued to
Gunnebo Industrier Aktiebolag
Vaxjö, **Sweden**

is found to comply with
DNV standard DNV-ST-0377 – Standard for shipboard lifting appliances
DNV standard DNV-ST-0378 – Offshore and platform lifting appliances

Application:

Included on second page of this document.

Issued at **Høvik** on **2024-10-29**
This Certificate is valid until **2025-01-31**.
DNV local unit: **Sweden Fleet In Service**

Approval Engineer: **Luisa Brites**

for **DNV**

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 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 USD 300 000.

Product description

Eye type forged hook with swivel, furnished with self-locking latch.

Application/Limitation

Categorization: Offshore, Loose gear
Minimum design temperature: -20 °C
Design dynamic factor: 1.3

The table below details the types of hooks, their safe working loads (SWL) and safety factors (SF).

Code	**Article no.**	**SWL [t] [1] SF=5**	**SWL [t] [1] SF=4**
BKLK-13-8 OS W HDG	ZG101370	5.40	6.70
BKLK-16-8 OS W HDG	ZG101371	8.20	10.3
BKLK-18/20-8 OS W HDG	ZG1013561	12.8	16.0
BKLK-22-8 OS HDG	ZG101294	16.0	20.0
BKLK-26-8 OS HDG	ZG101295	21.6	27.3
BKLK-32-8 OS HDG	ZG101344	26.2	32.8
BK-26-8 OS HDG	ZG101355	21.6	27.3
BK-32-8 OS HDG	ZG101364	26.2	32.8
BKLKD-13-8 OS W HDG DOUBLE LATCH	ZGS1167	5.40	6.70
BKLKD-16-8 OS W HDG DOUBLE LATCH	ZGS1168	8.20	10.3
BKLKD-18/20-8 OS W HDG DOUBLE LATCH	ZGS1169	12.8	16.0
[1] metric tonnes			

1. The minimum safety factor against tensile strength is 4.
2. All materials are to be delivered with 3.1 certificates, documenting mechanical properties and chemical composition in accordance with DNV-ST-0378 Sec.3.
3. NDE/NDT shall be performed according to DNV-ST-0378 Sec.3 [3.11].
4. It is the responsibility of the holder of the Certificate to ensure that both design and production are compliant with the standards listed on page 1 of this Type Approval Certificate.
5. The equipment has not been evaluated with respect to corrosion and functionality in sea water.

Type Approval documentation

Tests carried out

The manufacturer conducted prototype tests according to EN 1677-3 and submitted the corresponding reports. Overload testing in accordance with DNV-ST-0378 Table 14-2, dated 2019-01-30 and witnessed by DNV Malmö.

To obtain a CG3 certificate, each hook shall be tested according to DNV-ST-0378 Table 14-2 and NDT to be carried out according to DNV-ST-0378 Sec.3 [3.11.13].

Marking of product

Each hook shall be marked according to DNV-ST-0378, section 14 [14.5].

Periodical assessment

For retention of the Type Approval, a DNV 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 DNV-CP-0338.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE