Certificate no.:
TAS000049T

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Lifting Gear

with type designation(s)
BG 1.20.C

issued to
Ropeblock B.V.
Oldenzaal, Overijssel, Netherlands

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:

Product(s) approved by this certificate is/are accepted for DNV product certification.

Issued at **Hamburg** on **2024-05-29**
This Certificate is valid until **2029-05-28**.
DNV local unit: **Netherlands CMC**

for **DNV**

Approval Engineer: **Stefan Heuer**

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 300,000 USD.

Product description

Lifting gear type BG 1.20.C

Application/Limitation

1. Working conditions:
- Design temperature: -20°C
- SWL: 1t
- Hoist load coefficient (psi) ≤ 1.3
- Categorization acc. to FEM 1.001: E4 (B4/P3)

2. Material/ workmanship requirements:
The following minimum Charpy-V values shall be observed and be confirmed with material certificates 3.1 (ISO 10474):

Draw. No.	Min. Charpy-V	Test temp.	Description
01.2,5.P.E.102	27J	-20°C	Hook
02.2,5.P.81110	27J	-20°C	Hook nut
03.60.36.4	27J	-20°C	Traverse
16R.15.65.90.B	34J	-20°C	Studeye
E171187.17	34J	-20°C	Body

- NDT welding studeye/ body: 100% Visual, 100% MP – ISO 5817 B
- Hook design and manufacturing according to EN 13001-3-5.

3. Comments:
- The construction shall be protected permanently against corrosion.
- Screws shall be secured against unscrewing (e.g. by tightening torque, liquid thread locker).

4. Product certification:
To obtain DNV Product Certificates, each lifting gear shall be (if not agreed otherwise with local station):
- DNV manufacturing survey
- Be load tested with L_{Pstat}: 2 x SWL in presence of DNV

Type Approval documentation

Marking of product

Each lifting gear shall be marked by the manufacturer with at least:
- manufacturer´s name or trademark
- type of loose gear
- serial number
- year of construction
- nominal load(s) “SWL” in t or kg

Periodical assessment

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