Certificate no.:
TAS00004BH

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Lifting Gear

with type designation(s)
Crane block (KB 360.18.1.10.E)

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

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

Application:

Included on second page of this document.

Issued at **Høvik** on **2024-06-07**
This Certificate is valid until **2029-06-06**.
DNV local unit: **Netherlands VMC**

for **DNV**

Approval Engineer: **Luisa Brites**

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

Single-sheave hoisting block with single forged hook.

Application/Limitation

Design temperature:	-20 °C
Safe working load (SWL) to be marked on the equipment:	• 1 fall: 5 metric tonnes • 2 falls: 10 metric tonnes
Design dynamic factor:	1.3
Wire rope diameter:	18 mm

1. It is the operator's duty to ensure that the real dynamic coefficient does not exceed the design dynamic factor. The maximum dynamic load shall include effects such as the weight of the hook/block, the weight of the wire rope and the crane's design dynamic factor.
2. The maximum number of work cycles of the hook with maximum SWL is 125000 (fatigue class U3/Q5).
3. Bearings are not covered by this approval and are to be delivered with manufacturer's CoC, confirming sufficient strength and capacity.
4. The equipment is to be properly protected against corrosion. Regular inspections and all necessary maintenance shall be carried out to ensure equipment functionality and corrosion prevention.

Type Approval documentation

Certification

This Type Approval covers design(s) only, i.e. the Type Approval is not valid for the final product, but may be used as basis for obtaining a product certificate.

If a DNV Product Certificate is required, each crane block shall be subjected to overload testing as per DNV-ST-0378 Table 14-2.

Marking of product

Each crane block 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