Certificate No:
TAS0000380

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Anchoring - Anchor

with type designation(s)
SPEK TYPE ANCHOR (TYPE M)

Issued to
Chongqing Xinye Marine Casting Co., Ltd.
Chongqing, China

is found to comply with
DNV GL rules for classification – Ships

Application :

Approved for use as ordinary anchor according to DNV GL Rules for weights in range of 80 kg - 20000 kg

Issued at **Høvik** on **2021-11-03**
This Certificate is valid until **2026-11-02**.
DNV local station: **Wuhan NB & CMC**

Approval Engineer: **Lap Van Duong**

for **DNV**

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 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

SPEK TYPE ANCHOR (TYPE M)

Application/Limitation

- This certificate (design assessment) is a verification of the design towards the listed rules/requirements. The assessment does not waive requirements for certification of the anchor (i.e., issuance of DNV product certificate) or classification procedure required by DNV rules for product installed on DNV classed vessels.
- The manufacturer is required to have a DNV surveyor witnesses all important production and tests as required.
- All welding is to be carried out by qualified welders and according to approved welding procedures.
- Relevant NDT shall be performed after proof load testing.
- Each anchor and anchor shackle are to be delivered with required material certificates in accordance with Pt.3 Ch.1 Sec.3 [3.1] and Pt. 3 Ch.11 Sec.1 [4.2] as specified in the approved drawings. Materials specified according to other standards than DNV Rules shall fulfil the relevant corresponding rules requirements in Pt. 2.
- Proof load shall correspond to the weight of normal stockless anchor according to Pt. 3 Ch.11 Sec.1 [4.5]
- Assembly and fitting tolerance shall be in according with Pt. 3 Ch. 11 Sec. 1 [4.4]

Type Approval documentation

Tests carried out

Type testing is not relevant.

Marking of product

Each anchor shall be stamped according to Pt. 3 Ch. 11 Sec. 1 [4.7]

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.

END OF CERTIFICATE