DNV·GL

Certificate No:
TAS00002BF

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Anchoring Equipment

with type designation(s)
Ø132 Anchor Swivel Shackle Grade VL K3

Issued to
Jiangsu Asian Star Anchor Chain Co., Ltd.
JINGJIANG, JIANGSU, China

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

Application :

Approved for use as connection link between anchors and corresponding anchor chains with size Ø132 and with grade VL K3 Quality as per DNV GL Rules.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.
Max. break. load/SWL

Issued at **Høvik** on **2020-01-07**
This Certificate is valid until **2025-01-06**.
DNV GL local station: **Jiangyin CMC**

Approval Engineer: **Chi Wan Bang**

for **DNV GL**

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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

Ø132 Anchor Swivel Shackle designed for connecting anchors to anchor chains in compliance with requirements of DNVGL Rules for classification - Ships for anchor chain of VL K3 quality.

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 swivel shackles (i.e. issuance of DNVGL product certificate) or classification procedure required by DNV GL Rules for product installed on DNV GL classed vessels.
- Each swivel shackle is to be delivered with its own product certificate issued by DNVGL according to Pt.3 Ch.1 Sec.3 [3]. The certificate is to contain following particulars:
  a) Purchaser's name, order number and vessel identification, when known
  b) Manufacturer's name and order number
  c) Accessory description and grade of chain it suits
  d) Reference to reports for material testing including heat treatment
  e) Proof test load and reference to breaking test or its alternative procedure
  f) Statement to the effect that dimentional measurements, visual inspection and non-destructive examination, as far as relevant, are satisfactory
  g) Identification mark and position.
- Material quality is to comply with Pt.3 Ch.11 Sec.1 [5.2] and Pt.2 Ch.2 Sec.7, and is to be delivered with required material certificate as specified in Pt.3 Ch.1 Sec.3 [3].
- All welding is to be carried out by qualified welders and according to approved welding procedures.

Type Approval documentation

Tests carried out

Production testing shall be as follows:

- Each swivel shall be proof load tested according to Pt.3 Ch.11 Sec.1 [5.4] and Table 6.
- Samples of swivels shall be breaking load tested according to Pt.3 Ch.11 Sec.1 [5.5] and Table 6.
- Samples of swivels shall be mechanical tested according to Pt.3 Ch.11 Sec.1 [5.6].

Marking of product

Each swivel shackle shall be stamped according to Rules Pt.3 Ch.11 Sec.1 [5.8].

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