

TYPE APPROVAL CERTIFICATE

This is to certify:**That the T-Kenter Shackle**

with type designation(s)

ASAC2015012-15Z01-70**ASAC2015012-15Z02-76****ASAC2015012-15Z03-83****ASAC2015012-15Z04-89****ASAC2015012-15Z05-95****ASAC2015012-15Z06-102**

Issued to

Jiangsu Asian Star Anchor Chain Co., Ltd.
Jingjiang 100, China

is found to comply with

DNVGL-OS-E302 – Offshore mooring chain, Edition July 2015**Application :****To be used for Temporary Mooring****as defined in DNVGL-OS-E301, Position Mooring, July 2015**This Certificate is valid until **2021-02-03**.Issued at **Høvik** on **2016-02-04**for **DNV GL**DNV GL local station: **Jiangyin**Approval Engineer: **Pierre-Eric Moulia**

Inger-Helene Hals
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.

Job Id: **262.1-021535-1**
Certificate No: **TAS00000B0**

Product description

Kenter type pearshaped shackle. This approval covers size 70, 76, 83, 89, 95 and 102 mm in R4 grade.

Application/Limitation

The approval is conditional that the manufacturer is approved by DNVGL for R4 grade material.

The shackle is to be used in connection with chains for Temporary Mooring as defined in Offshore Standard DNVGL-OS-E301 "Position Mooring" July 2015.

The shackle shall be manufactured and tested in accordance with Offshore Standard DNVGL-OS-E302 "Offshore Mooring Chain" July 2015.

Individual Product Certificate is to be issued for each delivery.

Type Approval documentation

Tests carried out

For every order testing shall be carried out according to DNVGL-OS-E302 July 2015.

Marking of product

Each shackle shall be marked according to Offshore Standard DNVGL-OS-E302 "Mooring Chain" July 2015 Ch2 Sec2 §1.4 & §3.9.

Periodical assessment

For retention of the Type Approval, DNV surveyor shall perform a survey every 2 ½ year and before the expiry date of this Certificate to verify that the conditions of the type approval are complied with.