DNV·GL

Certificate No:
TAS00001HW

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Roll Thimble

with type designation(s)
32105125 MBL 710 ton

Issued to
GN Rope Fittings - Grofsmederij Nieuwkoop B.V.
Nieuwkoop, Netherlands

is found to comply with
DNVGL-OS-E303 – Offshore fibre ropes, Edition April 2016

Application :

to be used for Temporary, Mobile and Long Term Mooring as defined in DNVGL-OS-E301, Position Mooring, July 2015

Issued at **Høvik** on **2018-06-29**
This Certificate is valid until **2023-06-30**.
DNV GL local station: **Rotterdam**

for **DNV GL**

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.

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Certificate TAS00001HW replaces S-8182 that expired on 2018-06-30

Product description

MBL 7009 kN (equivalent to NV R5 76 mm chain) forged roll thimble for Offshore Mooring Fibre Rope to be installed in temporary, mobile or permanent mooring lines with polyester rope.

Application/Limitation

The thimbles are to be used in connection with chains for temporary, mobile or permanent mooring as defined in Offshore Standard DNVGL-OS-E301 Position Mooring July 2015.

The thimble shall be manufactured and tested in accordance with Offshore Standard DNVGL-OS-E303 Offshore Fibre Rope April 2016, except for full scale tests.

The approval is conditional that thimble material manufacturer is holding an Approval of Manufacturer DNVGL Certificate.

Individual Product Certificate is to be issued for each delivery.

Type Approval documentation

Tests carried out

Means of compliance were a MBL test and a fatigue test performed in June 2014.

The material shall satisfy:
- Charpy V-notch energy of 50 J at -20ºC.
- Yield (Rp 0,2%) min 275 MPa and Tensile min 450 MPa

Although the thimble full scale testing waiver is granted by this type approval, DNVGL still recommends to use, whenever it is possible, thimbles from the actual deliveries for fibre ropes break load and cyclic endurance tests

Marking of product

Thimble should be marked according to DNVGL-OS-E303 April 2016 Ch. 2 Sec. 6 §1.2

Periodical assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey after 2 years and another one after 3,5 years (+/- 90 days), to verify that the type approval is complied with