Certificate No:
TAS000023J

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Roll Thimble

with type designation(s)
18010144 MBL 7208 kN

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

is found to comply with
DNVGL-OS-E303 – Offshore fibre ropes, Edition July 2018

Application :

to be used for Temporary, Mobile or Permanent Mooring as defined in Offshore Standard DNVGL-OS-E301 "Position Mooring" July 2018

Issued at **Høvik** on **2019-07-12**
This Certificate is valid until **2024-07-11**.
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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This certificate is a renewal of expired S-8124.

Product description

MBL 7208 kN (equivalent to NV R4 84 mm chain) 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 2018.

The thimble shall be manufactured and tested in accordance with Offshore Standard DNVGL-OS-E303 'Offshore Mooring Fibre Rope' July 2018, except for full scale tests.

The approval is conditional that thimble material manufacturer is holding an Approval of Manufacturer DNVGL Certificate stating DNVGL-OS-B101.

Individual Product Certificate is to be issued for each delivery

Type Approval documentation

Tests carried out

Mean of compliance are a MBL test performed during week 32 in 2013 and a fatigue test performed in Feb 2014.

The material shall satisfy:
- Charpy V-notch energy of 50 J at -20ºC.
- Yield (Rp 0,2%) min 265 MPa and Tensile min 450 MPa

Although waiver is granted for full scale testing of the thimble (ref DNVGL-OS-E303 Ch.2 Sec.7 §4.1.2), 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 with a unique identifier traceable to its certificate.

Periodical assessment

For retention of this Type Approval, a DNVGL surveyor shall perform a periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days). The objective of the periodical assessment is to verify that the conditions for the Type Approval have not been altered. (Ref DNVGL-CP-0338 Type approval scheme).