DNV·GL

Certificate No:
TAS000029J

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Adjustable roller fairlead

with type designation(s)
5th Generation SWL 250t, 5th Generation SWL 500t, 5th Generation SWL 250t with Panama chock, 4th Generation SWL 500t, 4th Generation SWL 500t with Panama chock

Issued to
MacGregor Norway AS, Pusnes Office
Arendal, Norway

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

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.
In compliance with class notation Bow loading and SPM.

Issued at **Høvik** on **2019-11-27**
This Certificate is valid until **2024-11-26**.
DNV GL local station: **Oslo Mooring, Diving & Offshore Equipment**

Approval Engineer: **Tomasz Kapella**

for **DNV GL**

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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Product description

Hydraulicaly operated adjustable roller fairlead generation 4 and 5 in two SWL categories for Bow Loading and Single Point Mooring (SPM) class notations.

- 4th generation ARF:
  - SWL 500t regular design
  - SWL 500t with panama chocks
- 5th generation ARF:
  - SWL 250t regular design
  - SWL 250t with panama chocks
  - SWL 500t regular design

Application/Limitation

- Design follows requiremnts of RU-SHIP Pt.6, Ch.4, Sec.1 – Bow loading
- Design follows requiremnts of RU-SHIP Pt.6, Ch.5, Sec.12 – Single Point Mooring
- Design follows requiremnts of RU-SHIP Pt.5, Ch.5, Sec.2, par 2.2 – Emergency towing and IMO resolution MSC.35(63) for strongpoint for SWL of 2000kN.
- Can be used in forward emergency towing.
- The fixation and support to the deck structure is not covered by this approval and is assumed covered by separate drawings.
- Panama chock design is not covered by this type approval. Item shall be delivered with separate certificate.

Type Approval documentation

Tests carried out

The complete installation is to be function tested onboard after instalation.

Marking of product

Periodical assessment

DNV GL surveyor has the permission to perform Certification Retention Survey at any time during the validity period of this certificate.
Periodical assessment will be required 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.