DNV·GL

Certificate No:
TAS00002CD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fender

with type designation(s)
Floating Pneumatic Fender

Issued to
Trelleborg Marine Engineering (Qingdao) Co., Ltd.
Qingdao City, China

is found to comply with
ISO 17357-1:2014 Ships and marine technology – Floating pneumatic rubber fenders – Part 1: High pressure

Application :

Pneumatic fender for marine application

Issued at **Hamburg** on **2020-01-23**
This Certificate is valid until **2025-01-22** .
DNV GL local unit: **Qingdao CMC**

Approval Engineer: **Joachim Rehbein**

for **DNV GL**

Thorsten Lohmann
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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Job Id: **262.1-032516-1**
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Product description

Pneumatic rubber fender
Size [mm, diameter * length]: 300 * 500 up to 4500 * 12000
Type: Type I – net type
Type I single - net type, one end flange
Type II - sling type

Assessed production site

Trelleborg Marine Engineering (Qingdao) Co., Ltd
No. 35, Ronghai 4 Road, Chengyang Qingdao 266111, China

Application/Limitation

This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV GL.

Any significant changes in design and/or quality of the material will render the approval invalid.

If there are any changes to the product design, the design documentation and / or the certificate, information about this and revised documentation shall be sent to the DNV GL local office.

Type Approval documentation

Tests carried out

Test and inspection for commercial fenders acc. ISO 17357-1.

Marking of product

Product shall be marked with manufacturer's name and type designation.
The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Approval Certificate.

Periodical assessment

A condition for retention of the TA certificate in its validity period is that periodical assessments are successfully carried out.
For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after 2 years and after 3.5 years to verify that the conditions for the Type Approval are complied with. Refer to DNVGL-CP-0338, Sec.4.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnvgl.com

END OF CERTIFICATE