

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

Hammerwerk Erft G. Diederichs GmbH & Co. KG
Ernst-Diederichs-Strasse 1
Bad Münstereifel, Germany

is an approved manufacturer of
Steel Forgings

in accordance with
DNV GL rules for classification – Ships
DNV GL offshore standards

and the following particulars:

| | |
|---------------------------------------|--|
| Application area | Forgings for hull structures and equipment Forgings for shafting and machinery Forgings for crankshafts Forgings for gearing Forgings for boilers, pressure vessels and piping systems Ferritic steel forgings for low temperature service Stainless steel forgings |
| Steel type | Carbon and carbon-manganese, Alloy, Austenitic stainless, Martensitic stainless, See page 2 |
| Forging method | Open die forging/ ring rolling |
| Max. weight | See page 2 |
| Max. diameter / section | See page 2 |
| Heat treatment condition | See page 2 |
| Additional approval conditions | See page 2 |

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-02-11**

This Certificate is valid until **2022-03-07**.

DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Christian Wildhagen**

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Thorsten Lohmann
Head of Section

