

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001CM****This is to certify:**

That

**Wildauer Schmiede- und Kurbelwellentechnik GmbH  
Wildau, 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:

<b>Steel type(s)</b>	<b>Carbon, Carbon-Manganese, Alloy, Martensitic Stainless</b>
<b>Max. weight</b>	<b>5000 kg</b>
<b>Delivery Condition</b>	<b>Normalized or Quenched and Tempered</b>
<b>Remarks</b>	<b>Including continuous grain flow (CGF) crankshafts according to the TR-method</b>

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 **2017-05-05**This Certificate is valid until **2020-05-31**.DNV GL local station: **Magdeburg**Approval Engineer: **Stefan Röhr**for **DNV GL**

Digitally Signed By: Wildhagen, Christian

Location: DNV GL Hamburg, Germany

Signing Date: 2017-05-05 , on behalf of

**Thorsten Lohmann  
Head of Section**