

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

SIDENOR ACEROS ESPECIALES, S.L. (Reinosa)
Reinosa Cantabria, Spain

is an approved manufacturer of
Steel Forgings

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

and the following particulars:

Steel type(s)	Carbon, Carbon-Manganese, Alloy
Max. weight	84000 kg
Remarks	1. Including continuous grain flow (CGF) crankshafts up to Ø 460 mm & 22 800 kg 2. Clean steel forgings of grades 42CrMo4, 34CrNiMo6 and 32CrMo12 (EN 10083-3) comply with DNV GL rules for classification – ships, Pt.2 Ch.2, Sec.6 (1.6.10)

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 **2016-10-25**

This Certificate is valid until **2019-12-31**.
DNV GL local station: **Bilbao**

Approval Engineer: **Stefan Röhr**

for **DNV GL**

Thorsten Lohmann
Head of Section