



Certificate No : MD00/0546/0009/3

SIDENOR ACEROS ESPECIALES S.L.
PLANTA DE REINOSA
Paseo Alejandro Calonge, 1
39200 Reinosa (Cantabria)
Spain

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

Forgings in carbon, carbon-manganese, alloy and austenitic stainless steel
(maximum weight 90 tonnes)

Including approval of semi built crankshafts with a K factor K1 = 1.05
- Plus surface deep rolling process K2 = 1.20

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 18 June 2017
Date of Issue : 21 December 2016

A blue ink signature, appearing to be "Lili Hou", written over a horizontal line.

Lili Hou
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group