



Approval No. ST287CF  
Certificate No. TA18337E

**APPROVAL OF MANUFACTURING PROCESS**

*This is to certify that*

**Sidenor Forgings & Castings S.L.U.**  
**Reinosa, Cantabria**  
**Spain**

*has been approved for the manufacturing process of undermentioned materials by the NIPPON KAIJI KYOKAI in accordance with the requirements of 1.2, Part K of the Society's "Rules for the Survey and Construction of Steel Ships" and Chapter 3, Part 1 of the Society's "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use".*

**MATERIALS** : Carbon Steels  
Low-Alloy Steels

**PROCESS** : Ingot Casting / Forging / Heat Treatment

**REMARK** : Including Solid Crankshafts by TR Forging specified in 6.1.13-2, Part K of the Rules.

The products for the ships classed with the Society are to be manufactured, tested and inspected in compliance with the Rules.

This certificate is valid from 1 October 2017 until 17 April 2020.  
Issued at Tokyo on 30 March 2018.

Renewal Date : 18 April 2015

  
H. Kobayashi  
General Manager  
Material and Equipment Department

