



Approval No. ST44CF

Certificate No. TA181285E

**APPROVAL OF MANUFACTURING PROCESS**

*This is to certify that*

**Wildauer Schmiede- und Kurbelwellentechnik GmbH  
Schmiedestraße, Wildau  
Germany**

*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** : Forging / Heat Treatment

**REMARKS** : 1) Semi-finished products are to be supplied by the Society-approved manufacturers who are able to deliver the said semi-finished products with the specified chemical composition corresponding to the above materials approved.  
2) Including TR Crankshafts 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 26 July 2018 until 25 July 2023.

Issued at Tokyo on 1 November 2018.

Renewal Date : 26 July 2018

H. Kobayashi  
General Manager  
Material and Equipment Department