



Certificate number: 59336/B0 BV

File number: MAT 72845-2019

Product code: 8153I

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## APPROVAL CERTIFICATE for MATERIALS

*This certificate is issued to*

**FOMEC SPA**  
MONDOVI' -CN - ITALY

*for the type of product*

**STEEL FORGINGS**

Carbon and carbon-manganese steels forgings

### Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 22 Oct 2030**

**For Bureau Veritas Marine & Offshore,**

At BV NAPOLI, on 22 Oct 2025,

Alessandro Asbornò

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

Carbon and carbon-manganese steel finished forgings with maximum weight of 7.5 tons.  
No steelmaking. Forgings made by upsetting operations. Heat treatment, as applicable.

### **2. DOCUMENTS AND DRAWINGS :**

2.1 - Documents submitted on October 2019 and issued by FOMECA SPA.

### **3. TEST REPORTS :**

3.1 - Documents issued by FOMECA SPA:

- Reports of testing conducted on a RudderStock, forged from ingot heat number 72825, dated November 4th, 2019.
- Reports of testing conducted on a Shaft, forged from ingot heat number 82688, dated December 12th, 2012.
- Reports of testing conducted on a Hub, forged from ingot heat number 109103, dated November 4th, 2019.
- Test report ref.25LA02387 for Heat 242290, grade C40 dated 26/08/2025.
- Test report ref.25LA02388 for Heat 250438, grade 28Mn6 dated 26/08/2025.

3.2 - Typical tested grades:

- C40 EN10250-2, Quenched and Tempered; 28Mn6 EN 10083, normalized and stress relieved; ASTM A694 Gr F60, ASTM A350 LF2 normalized for Carbon-manganese steels.

### **4. APPLICATION / LIMITATION :**

- 4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.
- 4.2 - Chemical composition and mechanical properties requirements are to be as per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units, and/or alternative specification mentioned on reviewed drawings, as applicable.
- 4.3 - Semi-finished products are to be supplied by Rubiera Special Steel S.P.A. or other steelmakers approved by the Society.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - The steel forgings are to be supplied by FOMECA SPA in compliance with the type and the requirements described in this certificate.
- 5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
- 5.3 - BV product certificate is required.
- 5.4 - Semi-finished products used to manufacture forgings are to be supplied with works certificates (W).
- 5.5 - For information, FOMECA SPA has declared to Bureau Veritas the following production site:

**FOMECA SPA**  
C.so Inghilterra, 40  
12084 MONDOVI' -CN  
ITALY

### **6. MARKING OF PRODUCT :**

- 6.1 - Each forging that has been tested with satisfactory results are to be marked with the following information:
    - Manufacturer's name or trademark
    - Bureau Veritas' brand
    - Identification marking enabling traceability, such as cast number, heat number, or batch number
    - Material grade and classification
    - Additional markings where applicable, such as test pressure or specific inspection references
- Additional marking requirements specific to forging shall be in accordance with the "Marking" article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units.

### **7. OTHERS :**

- 7.1 - It is FOMECA SPA's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 - This certificate supersedes the Type Approval Certificate N° 59336/A0 BV issued by the Society.

\*\*\* END OF CERTIFICATE \*\*\*