Certificate number: 23578/D0 BV
File number: MAT 81345-2010
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

FRIULFORGIA SRL Unipersonale

SEDEGLIANO-UD - ITALY

for the type of product

STEEL FORGINGS

Carbon-manganese, alloy and austenitic stainless steel forgings of maximum weight 25 tons.

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: 16 Feb 2031

For Bureau Veritas Marine & Offshore,
At BV NAPOLI, on 16 Feb 2026,
Alessandro Asborno

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-manganese, alloy and austenitic stainless steel forgings.
Open-die forging with maximum capacity 25 tons.
No steelmaking. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by FRIULFORGIA SRL Unipersonale:
- "General Organization & Manufacturing Procedure" dated 14 October 2009.
- "Forging management procedure N°570-14 rev.00" dated 18 May 2015.
- "Forging management procedure N°368-14 rev.00" dated 18 May 2015.
- "Inspection and test plan N°14-368 rev.00 and N°14-570 rev.00" dated 15 June 2015.

3. TEST REPORTS :

3.1 - Typical tested grades are :
- Gr2 according to ASTM A266 for C-Mn steels.
- 30CrNiMo8 and 25CrNiMo4 according to EN10083-3 for alloy steels.
- F316L according to ASTM A182 for austenitic stainless steels.

3.2 - Documents issued by FRIULFORGIA SRL Unipersonale:
- "Test certificates 00820/PP, 00906/PP and 00864/PP" dated 16 March 2010.
- "Test certificates 00820/TR, 00906/TR and 00864/TR" dated 24 May 2010.
- "Test certificates N° 07983/TR Rev.1 and N° 08446/TR Rev.1" dated 20 February 2015.
- "Certificates of Heat treatment N° 07983/TT and 08446/TT" dated 04 September 2014 and 16 January 2015.
- "Certificates of ultrasonic inspection N° 07983/UT and 08446/UT" dated 04 September 2014 and 16 January 2015.

3.3 - Document issued by Laboratorio Prove Bavaro:
- "Relazione N°10-6883" dated 15 June 2010.

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 ASONext or other steelmakers approved by the Society.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by FRIULFORGIA SRL Unipersonale 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 - FRIULFORGIA SRL Unipersonale has to make the necessary arrangements to have its works recognized by Bureau Veritas in compliance with the requirements of NR320.
5.5 - For information, FRIULFORGIA SRL Unipersonale has declared to Bureau Veritas the following production site:

FRIULFORGIA SRL Unipersonale
ZI Pannellia di Sedegliano
33039 Sedegliano-UD
ITALY

6. MARKING OF PRODUCT :

6.1 - Each steel forging that has been tested with satisfactory results are to be marked with the following information:
- Manufacturer’s name or trademark
- Bureau Veritas’ Mark
- 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 steel forgings 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 FRIULFORGIA SRL Unipersonale'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° 23578/C0 issued by the Society.

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