



Marine & Offshore

Certificate number: 16289/D0 BV

File number: MAT 22183

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

OFAR SPA

Visano (BS) - ITALY

for the type of product

STEEL FORGINGS

Forgings in carbon, carbon-manganese and alloy steels of maximum weight 80 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: 24 Jan 2027

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 24 Jan 2022,

Sandro BRUSEGAN



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 :

Steel forgings in carbon, carbon-manganese steels and alloy steels of maximum weight 80 tons.

Forgings delivered in normalised, normalised and tempered or quenched and tempered condition as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 - As per following documents issued by OFAR SPA

- General documents dated 23 September 2005.

- Informative for approval of manufacturing process dated July 2016.

- NDT procedures and personnel qualifications, Documents Ref. UT EN 10228-3 Rev.01 dated 26/06/2014; MT EN 10228-1 Rev.00 dated 08/10/2015 and R07_1 Rev.00 dated 08/11/2021.

3. TEST REPORTS :

3.1 - Typical tested grades are : C30, S17MoS (16CrMo4,4), 28Mn6, 42CrMo4 as per engine maker's specifications.

3.2 - As per following test reports issued by OFAR SPA

- Certificates N° 051677/01, 052150/01 submitted 2005.

- Certificates N° 080087 dated 27 June 2008.

- Inspection report Doc. CH01 63573 005 and Manufacturing process quality plan MPQP No. 18163407 Rev.03 dated 24/03/2021.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Chemical composition, tensile properties, Charpy-V notch test requirements are to be as per Bureau Veritas Rules NR216 and/or alternative specification mentioned on reviewed drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by OFAR 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.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from N°16289/A0 BV to N°16289/C0 BV.

*** END OF CERTIFICATE ***