



Marine & Offshore

Certificate number: 19081/C1 BV

File number: MAT 13894-2007

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

Carbon & carbon-manganese, alloy and stainless steels forgings of maximum weight 40 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: 20 Jun 2023

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 01 Oct 2019,

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 :

Carbon & carbon-manganese, alloy and stainless steels forgings of maximum weight 40 tons.

No steelmaking. Forgings are made by open-die forging. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

- "Forging approval for naval application" issued by Forges s.r.l.
- "Forges S.p.A facilities and equipment list" issued by Forges S.p.A and dated 25 July 2012.
- "Main facilities and equipment list" issued by Forges S.p.A and dated 07 October 2014.
- "Forging process for Job 150183 and 150185" issued by Forges S.p.A and dated 09 August 2015.
- "Personnel qualification records" issued by Forges S.p.A and dated 09 August 2015.
- Documents Ref.PR0710-001 Rev.0 dated 11/01/2018, Ref.PR0711-001 Rev.01 dated 23/10/2017.

3. TEST REPORTS :

Typical tested grades are:

- 20Mn5 according to EN 10250-2.
- S355J2G3 according to EN 10250-2.
- P355 QH according to EN 10222-4.
- WstE 460 according to BN/20/026 rev 03 - EN 10228-1.
- F316L according to ASTM A352.
- XM-12 MOD according to ASTM A705 and Manufacturer specification M35058 Rev.D.

- "Forging approval for naval application" issued by Forges s.r.l.
- "Forging plans" issued by Forges S.p.A and dated 25 March 2013.
- "Certificates N° 110615, N° 110532, N° 101881, N° 110602 and N° 101521" issued by Forges S.p.A and dated 18 January 2013.
- "Certificates N° 150185 and N° 150183 issued by Forges S.p.A and dated 09 June 2015.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The 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.
- 5.4 - For information, OFAR SpA has declared to Bureau Veritas the following production site:

Forges Palnt - Cividale del Friuli (UD) Italy

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.19081/A0 BV to No.19081/C0 BV.

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