



Marine & Offshore

Certificate number: 34402/B0 BV

File number: MAT 48611-2013

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

FORGIA DI BOLLATE SPA

Canneto sull'Oglio MN - ITALY

for the type of product

STEEL FORGINGS

Forgings in carbon, carbon-manganese, low alloy, alloy and stainless steels of maximum weight 10 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 20 Jun 2018,

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 :

Forgings in carbon, carbon-manganese, low alloy, alloy and stainless steels of maximum weight 10 Tons.

Forging are made by open die forging or ring rolling. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

As per following documentation issued by FORGIA DI BOLLATE SPA:

- "Bureau Veritas Marine Qualification Ref: 338010/GEN/12" submitted April 2013.

3. TEST REPORTS :

Typical tested grades are:

- LF2 according to ASTM A350,
- F22, F316L and F53 according to ASTM A182,
- AISI 8630 Mod according to Manufacturer specification SVB-00-037.

As per following documentation issued by FORGIA DI BOLLATE SPA:

- Manufacturing Process program and tests reports of carbon-manganese steel ASTM A350 LF2, dated 30 November 2012 and 20 March 2013.
- Manufacturing Process program and tests reports of low alloy steel ASTM A182 F22 CL.3, dated 30 November 2012 and 20 March 2013.
- Manufacturing Process program and tests reports of duplex steel ASTM A182 F53, dated 30 November 2012 and 20 March 2013.
- Manufacturing Process program and tests reports of stainless steel ASTM A182 F316, dated 30 November 2012 and 20 March 2013.
- Manufacturing Process program and tests reports of alloy steel AISI 8630MOD, dated 30 November 2012 and 20 March 2013.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification. Steel grade specification for chemical composition and mechanical properties is to be as per Bureau Veritas Materials Rules for Classification and/or material specification reviewed by the Society, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

The steel forgings are to be supplied by FORGIA DI BOLLATE SPA in compliance with the type and the requirements described in this certificate. This type of product is within the category IBV of Bureau Veritas Rule Note NR320. BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approval No.34402/A0 BV.

*** END OF CERTIFICATE ***