Marine & Offshore

Certificate number: 41416/B1 BV
File number: MAT 21627-2018
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

FORGE MONCHIERI SPA

Cividate Camuno (BS) - ITALY

for the type of product

STEEL FORGINGS

Stainless steel forgings of maximum weight 15 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: 12 Jan 2029

For Bureau Veritas Marine & Offshore,
At BV NAPOLI, on 01 Mar 2024,
Sandro BRUSEGAN

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 :

Stainless steels forgings of maximum weight 15 tons.

No steelmaking. Forgings are made by open-die forging. Forgings delivered in heat treated and machined condition.

2. DOCUMENTS AND DRAWINGS :

2.1 - As per following documentation issued by Forge Monchieri SPA:
- Forge Monchieri Design documents submitted October 2018.
- Procedure I2.8.1 Rev.3 "Hot forging and forging ratio calculation" dated 04 September 2017.
- "Manufacturing process plan N° 16-259 Rev.2" dated 07 July 2017.
- "Technical procurement specification Ref: STF 22-53/F025E A" dated 25 April 2016.
- Procedure No. I2.14.16 Ultrasonic testing dated 15 September 2014, Procedure I2.14.22 Dye penetrant dated 04 November 2014 and List of NDT personnel dated 18 October 2023.

3. TEST REPORTS:

3.1 -Typical tested grade :
-X4CrNiMo16-5-1 QT760 according to EN 10250-4 and manufacturer's specification STF 22-53/F025E A for martensitic stainless steels.

3.2 -As per following documentation issued by Forge Monchieri SPA:
- Inspection report N° 18/00660 rev.0 dated 26 April 2018.
- Inspection report N° 18/00661 rev.0 dated 26 April 2018.
- Inspection report N° 17/01569 rev.00 dated 15 June 2017.

4. APPLICATION / LIMITATION :

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

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Forge Monchieri 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, Forge Monchieri SPA has declared to Bureau Veritas the following production site:

Forge Monchieri SPA
Via Industriale, 3
25040 Cividate Camuno (BS)
ITALY

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals No. 41416/A0 BV, and No. 41416/B0 BV.

It is Forge Monchieri 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.

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