



Marine & Offshore

Certificate number: 20471/D0 BV

File number: MAT 3292-2008

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

METALCAM SpA
BRENO (BS) - ITALY

for the type of product

STEEL FORGINGS

Carbon-manganese and alloy steel forgings of maximum weight 16 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: 23 Jul 2029

For Bureau Veritas Marine & Offshore,

At BV NAPOLI, on 23 Jul 2024,

Alessandro Asbornò

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 and alloy steel forgings of maximum weight 16 tons.

Steel making by Electric Arc Furnace, Ladle furnace, and Vacuum degassing, as applicable.

Forgings are made from ingots having a weight up to 38tons.

Open die forgings. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Metalcam SpA.:

- "Company profile", and, documents submitted on April 2019.

- Procedures Ref.MPI 03.13 Rev.1 dated 31/01/2018, Ref.UT 005.18 Rev.0 dated 10/02/2018.

- MPS 103.19 Rev.0 dated 23 April 2019; MPS 102.19 Rev. 0 dated 23 April 2019; drawings No.17601/1-2 and No.171601/3-4 dated 13 December 2017.

3. TEST REPORTS :

3.1 - Documents issued by Metalcam SpA.:

- Inspection certificate No.3589/2008 dated 18/03/2008,

- Inspection certificate No.1134/2008 dated 28/01/2008,

- Inspection certificate No.3275/2018, No.3276/2018 Rev.01 & 3279/2018 Rev.0 dated 26/02/2018.

- Inspection certificates No.8260/2018 & No.8261/2018 dated 23/05/2018, No.11797/2019 Rev.0 dated 17/05/2019.

3.2 - Typical grades tested:

- C45 according to EN 10083-2 and MPS 103.19 Rev.0 dated 23/04/2019, Normalized, for carbon-manganese steels.

- 42CrMo4 according to EN 10083-3 and MPS 102.19 Rev.0 dated 23/04/2019, Quenched and Tempered, for alloy steels.

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 Metalcam 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, Metalcam SpA. has declared to Bureau Veritas the following production site:

Metalcam SpA.
Via Leonardo DA VINCI
I-25043 BRENO (BS)
ITALY

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.20471/A0 BV to No.20471/C0 BV.

It is Metalcam 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 ***