Certificate number: 42935/B2 BV
File number: MAT 64477-2015
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

SESIA FUCINE SRL

TORINO - ITALY

for the type of product

STEEL FORGINGS

Carbon-Manganese, alloy, duplex stainless and martensitic stainless steel forgings.

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: 04 Apr 2027

For Bureau Veritas Marine & Offshore,
At BV NAPOLI, on 16 Feb 2026,
Alessandro Asborno

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 :

Forgings for machinery, shafts and non-welded components.

Type of steel	Maximum weight
Carbon-Manganese	6000 Kg.
Alloy	2000 Kg.
Duplex stainless	7000 Kg.
Martenisitc stainless	5220 Kg.

No steelmaking. Forgings are made from cast billets or forged blooms/bars by open die forging and ring rolling.
Forgings are heat treated as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Sesia Fucine SRL:
- "Profile of Sesia Fucine Rev.0 and Introducing the company Rev.1" dated 04 April 2014.
- "Instruction Work - Forging (Fucinatura) - Doc N° IO.7.5.21 Rev.2" dated 02 September 2015.
- "Operative procedure - Heat treatment - Doc N° IO.7.5.5 Rev.0" dated 05 April 2014.
- Examples of manufacturing program MP2015-493 Rev.0 dated 09 March 2015; MP2014-1308 Rev.0 dated 17 September 2014 and MP2013-322 Rev.1 dated 24 April 2013.
- MPS Sesia Job No.2020.0267 dated 07/02/2020 for grade S355J2G3 EN 10250-2.
- MPS Sesia Job No.2021.0321 dated 31/04/2021 for grade LF2 Cl.1 ASTM A350.
- NDT procedures: IO_PRO_3 Rev.0 dated 30/10/2017; IO_PRO_4 Rev.0 dated 30/10/2017; IO_PRO_16 Rev.0 dated 30/10/2017; NDT personnels certificates, submitted February 2022.
- General documentation: Sesia fucine general presentaion; Instructions operations; Approval certificates and Slabs suppliers certificates, submitted February 2022.
- MPS Sesia Job No.2022.F51 Rev. 01 dated 30/05/2022 for grade F51 ASTM A182 and drawing No.2022 F51-Machining.

3. TEST REPORTS :

3.1 - Documents issued by Sesia Fucine SRL:
- Inspection certificates for forgings grade 40NiCrMo7 from March 2009 to March 2013.
- Inspection certificates for forgings grade 17CrNiMo6 dated March and April 2009.
- Inspection certificates for forgings grade 42CrMo4 dated May and July 2008.
- Inspection certificate No.2020.0267/1 rev.1 for grade S355J2G3 dated 06/08/2020; Mill test certificate No.427618 dated 19/07/2020.
- Inspection certificate No.2021.0321/1 rev.0 for grade LF2 Cl.1 dated 12/04/2021; Mill test certificate No.C-0081822 dated 09/10/2020and test coupon identification dated 06/01/2021.
- Mill test certificate No.2021-055328 dated 2021.
- Test certificate 2025.0455/1 Rev.2 dated 12/01/2026.
- Document 2024.0460 Cover page dated 21/02/2024 including Test certificate 2024.0460/1 Rev.2 dated 03/06/2025.

3.2 - Documents issued by Apave Italia CPM:
- Test report No. PM.21.099/01/01 rev.01 dated 27/08/2021.
- Test report No. PM.22.031/10 dated 07/02/2022 and 06/06/2022.

3.3 - Typical tested forgings are:
- grades 40NiCrMo7 and 17CrNiMo6 according to UNI 7874-1979 ;
- grade 40CrMo4 according to EN 10083-3;
- grade S355J2G3 according to EN 10250-2;
- grade LF2 Cl.1 according to ASTM A350;
- grade F51 according to ASTM 182;
- grade1.4418 (X4CrNiMo16-5-1) QT according to Customer's specification MSC 060-2 Issue 8 dated 15/11/2021.
- grade1.4313 (X3CrNiMo13-4) QT780 according to EN 10250-4.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.
4.2 - Chemical composition and tensile properties requirements are to be as per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units, and/or alternative specification mentioned on reviewed drawings, as applicable.
4.3 - Semi-finished products are to be supplied by Rubiera Special Steel S.p.A.; Cogne Acciai Speciali S.p.a.; Acciairie Venete S.p.a. Acciairie Valbruna S.p.a. or others BV approved steelmakers.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Sesia Fucine SRL 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 - Sesia Fucine SRLhas to make the necessary arrangements to have its works recognized by Bureau Veritas in compliance with the requirements of NR320.

5.5 - For information, Sesia Fucine SRL has declared to Bureau Veritas the following production site:

SESIA FUCINE SRL
Strada Basse di Stura, 61
10154 TORINO
ITALY

6. MARKING OF PRODUCT :

6.1 - Each steel forging that has been tested with satisfactory results are to be marked with the following information:

- Manufacturer’s name or trademark
- Bureau Veritas’ brand
- Identification marking enabling traceability, such as cast number, heat number, or batch number
- Material grade and classification
- Additional markings where applicable, such as test pressure or specific inspection references

Additional marking requirements specific to steel forgings shall be in accordance with the “Marking” article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units.

7. OTHERS :

7.1 - It is Sesia Fucine SRL'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.

7.2 - This certificate supersedes the Type Approval Certificate N° 42935/B1 BV issued by the Society.

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