



Marine & Offshore

Certificate number: 25437/C0 BV

File number: MAT 11108-2011

Product code: 8159I

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

C.C. JENSEN Casting A/S
SVENDBORG - DENMARK

for the type of product

COPPER ALLOY CASTINGS

Castings in non-finished machined condition in copper alloy type CU3 of maximum weight of 3200 kg .

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 May 2027

For Bureau Veritas Marine & Offshore,

At BV FREDERICIA, on 23 May 2022,

Jesper JENSEN

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 :

Castings intended to be used for propellers. Castings made in copper alloy type CU3 of maximum weight 3200 kg .
Castings are delivered in non-finished machined condition.

Alloy melting in electrical and induction furnaces. Mould making: sand casting with sodium silicate.

2. DOCUMENTS AND DRAWINGS :

- 2.1 - Documents issued by C.C. Jensen A/S:
- Documents submitted on 2011.
- "C.C.JENSEN Casting department data" dated 17/10/2016.
- Documents submitted on April 2022.

3. TEST REPORTS :

- 3.1-Test reports No. 111-20407/6977.01, No. 111-20407/6977.02 dated 15/03/2011 issued by Force Technology institute.
3.2-Test reports issued for propeller hub Ref.890032767 dated 05/10/2017; Ref.890072163, Ref. 890072164 dated 30/04/2020 and issued by C.C. Jensen A/S.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The castings are to be supplied by C.C. Jensen A/S 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.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals No.25437/A0 BV, No.25437/B0 BV.

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