



CERTIFICATE NUMBER

FDRY-T2206908

ISSUING OFFICE

Houston Materials

CERTIFICATE OF FOUNDRY FACILITY AND PROCESS APPROVAL

This is to certify that a representative of ABS did, at the request of

ZDAS, A.S.

STROJIRENSKA 675/6, ZDAR NAD SAZAVOU

1, ZDAR NAD SAZAVOU, Czechia, 591 01

attend its facilities as indicated in the ABS Pilsen Port port office survey report number 5055959 dated 21 December 2021 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Steel Casting components for marine applications

in accordance with the ABS Approval letter (Reference T2206908), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 28 December 2026 subject to adherence to relevant ABS Rules, Survey requirements and annual endorsement by an ABS representative.

Marcus Cridland
Chief Metallurgist, ABS

ISSUE DATE: 21 December 2021

EXPIRY DATE: 28 December 2026

FIRST ANNUAL
ENDORSEMENT:

SECOND ANNUAL
ENDORSEMENT:

THIRD ANNUAL
ENDORSEMENT:

FOURTH ANNUAL
ENDORSEMENT:

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, Guides, standards or other criteria of ABS as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a full description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of ABS who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



**Task – T2200351, T2206908
Foundry Facility Approval – Renewal
Certificate No. FDRY-T2206908**

Attention: Mr. Jiri Nemeč, ZDAS a.s. (WCN: 021098)

The documents shown in the attached list are reviewed or filed for reference in accordance with the applicable requirements of the following and the facility is considered approved to manufacture castings for hull/machinery components as outlined in the process/product approval.

1. ABS Rules for Materials and Welding, Part 2 (2022)

Please note it is the responsibility of the facility to inform ABS of any changes to the manufacturing parameters and request annual endorsement survey or renewal of approval prior to the five year expiry date.

For any clarifications, contact James Oehrle at +1-281-877-6148, joehrle@eagle.org.

Very truly yours,
Wei-Biao (Bill) Shi
Vice President

Electronically Signed by: Satya Meruva

Documents List

| Drawing No. | Rev. No. | Title | Status |
|--|----------|--|---------------------------------|
| No Change and No Conformances Confirmation | - | Client Letter | Reviewed |
| Statistical Data | - | Histogram 2016-2021 | Reviewed |
| ISO 9001 | - | Certificate Registration No. 44 100 934025 | Filed by ABS for Reference Only |
| PO 21-902-00678 | - | Purchase Order | Filed by ABS for Reference Only |
| Signed Application | - | Supporting Information | Filed by ABS for Reference Only |

An electronic copy of the documents appropriately stamped will be returned by FTP/e-mail.

Process/Product Approval

| | | |
|-------------------------------------|--|----------------|
| Grade | : Non-ABS: Carbon, C-Mn, Low & Medium Alloy Steels | |
| Melting Practice | : EAF-LF-VD-VOD | |
| Casting Practice | : Ingot Casting | : Sand Casting |
| Maximum Weight | : 22,000 kg | : 40,000 kg |
| Maximum Thickness / Diameter | : 500 mm / 4,000 mm | |
| Heat treatment facility | : In-House | |
| Application Examples | : Ingot, Cable Lifter, Sheave, Rudder Horn | |

Note: Weld repairs and PWHT, if applicable, to ABS certified castings are to be approved prior to commencing the repair.

Include: Manufacturer Approval Certificate (FDRY-T2206908)