



CERTIFICATE NUMBER
FOR-T1469803

ISSUING OFFICE
London Engineering
Department

CERTIFICATE OF FORGING FACILITY AND PROCESS APPROVAL

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

FORJAS IRIZAR S.L.

HIRIBARREN NO 26, LAZKAO, GUIPUZCOA, Spain, 20210

attend its facilities as indicated in the ABS Bilbao Port port office survey report number 3066368 dated 15 January 2016 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Stainless Steel Forging and Steel Forging components for marine applications

in accordance with the ABS Approval letter (Reference T1469803), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 17 October 2020 subject to adherence to relevant ABS Rules, Survey requirements and annual endorsement by an ABS representative.



Marcus Cridland

Chief Metallurgist, ABS

ISSUE DATE: 15 January 2016

EXPIRY DATE: 17 October 2020

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.



FORJAS IRIZAR S.L. (926420)
HIRIBARREN NO 26,
LAZKAO, GUIPUZCOA, 20210, SPAIN

Reference: T1469803
Project Number: 2167707
Certificate no: FOR-T1469803

ATTN: Mr. Manu Lasa

**Renewal Steel and Stainless Steel Forging Facility and Process Approval
ABS Approval of FORJAS IRIZAR S.L., Lazkao, Spain**

We have the ABS plant survey report BB3066368 dated 15 January 2016, along with your submittals with enclosures relative to the subject. With regard thereto we advise that FORJAS IRIZAR S.L., Lazkao, Spain is considered approved to produce machinery forgings to the requirements of *ABS Materials & Welding Rules Part 2 (2016)* as outlined below, provided the Rules are adhered to in all respects and all production, testing and inspection are to the satisfaction of the attending ABS Surveyor.

| <u>Grade</u> | <u>Non ABS Grades – Carbon, Carbon-Manganese, Low Alloy, and Alloy Steel</u> | <u>Non-ABS Grade – Austenitic Stainless Steel</u> |
|--------------------------------|--|---|
| <u>Melting Practice</u> | ABS Approved Sources | ABS Approved Sources |
| <u>Casting Practice</u> | ABS Approved Sources | ABS Approved Sources |
| <u>Forging Practice</u> | ODF, Drop Forging | ODF, Drop Forging |
| <u>Maximum Weight</u> | 20,000 kg | 20,000 kg |
| <u>Heat treatment facility</u> | In-house | In-house |
| <u>Product Examples</u> | Crane Hook, Lifting Appliance Accessories, Hooks, Single, Double, Hook Suspensions, Wheels, and Forging for general machinery purposes | |

Weld repair is generally not permitted on forgings, unless specially approved by the ABS Engineering Office.

The approval is valid for five years subject to annual endorsement survey and will expire on 14 January 2021. 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. Please find our invoice to cover the costs of the technical review is subject to a separate correspondence.

A copy of the documentation appropriately stamped to indicate our review is being retained. If you need to contact ABS regarding this review please email Kin-Ling Sham at ksham@eagle.org, Nikolas Vrellos at nvrellos@eagle.org, or Satya Meruva at smeruva@eagle.org.

Very truly yours

Dimitrios G. Kostaras
Vice President of Engineering, ABS Europe Ltd.

Satya Meruva
Principal Engineer, Materials
Corporate Chief Engineer's Office

CC: ABS Bilbao Port