



CERTIFICATE NUMBER
FDRY-T1599485

ISSUING OFFICE
CN Shanghai SED B

CERTIFICATE OF FOUNDRY FACILITY AND PROCESS APPROVAL

This is to certify that a representative of ABS did, at the request of
IMPRO INDUSTRIES (YIXING) CO., LTD.
NO. 6, XUNENG ROAD, YIXING, China

attend its facilities as indicated in the ABS CN Nantong Port (MLO) port office survey report number 3259559 dated 12 January 2017 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Cast Iron Casting components for marine applications

in accordance with the ABS Approval letter (Reference T1599485), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 30 December 2021 subject to adherence to relevant ABS Rules, Survey requirements and annual endorsement by an ABS representative.



Marcus Cridland
Chief Metallurgist, ABS

ISSUE DATE: 12 January 2017
EXPIRY DATE: 30 December 2021

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.



American Bureau of Shipping (China) Ltd

Reference: LHL/JO T1599485
Project No.: 3828114
Certificate No.: FDRY-T1599485
Date: 08 February 2017

IMPRO INDUSTRIES (YIXING) CO., LTD. (WCN 408321)
NO. 6, XUNENG ROAD
YIXING, CHINA

ATTN: Ms. Chen Tingting,

Renewal Cast Iron Casting Facility and Process Approval ABS Approval of Impro Industries (Yixing) Co., Ltd., Yixing, P. R. China

We have received your declaration stating that the materials used indicated in the submittal are free from asbestos and the ABS plant survey report NX3259559 dated 12 January 2017, along with your submittals of 12 January 2017 together with enclosures relative to the subject. With regard thereto we advise that Impro Industries (Yixing) Co., Ltd., Yixing, P. R. China is considered approved to produce machinery castings to the requirements of *ABS Rules Part 2 for Materials & Welding (2017)* 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.

Grade	: Non ABS Grades – Gray-iron, Nodular Iron, Compacted Graphite Iron
Melting Practice	: Induction Furnace (IF)
Casting Practice	: Sand Casting (SC)
Maximum Weight	: 6,000 Kg for Gray-iron & Nodular Iron, 200 Kg for Compacted Graphite Iron
Maximum Thickness/Diameter	: NA
Heat treatment facility	: In-house
Application Examples	: Cylinder block, Cylinder head.

Repairs by welding are generally not permitted. In cases where welding is proposed, full details of the proposed repair are to be submitted for review prior to commencing the repair. Weld repairs are to be recorded on a map and included with the casting documentation.

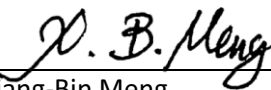
The approval is valid for five years subject to annual endorsement survey and will expire on 30 December 2021. Please note it is the responsibility of the facility to inform ABS of any changes to the manufacturing parameters and request annual endorsement survey or renewal of approval prior to the five year expiry date.

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 Lihong Lin at llin@eagle.org.

Very truly yours,

Bill W. Shi
Vice President
ABS Global Engineering

By:


Xiang-Bin Meng
Principal Engineer
Ship Engineering Department

CC: ABS Greater China, Nantong Port

ABS GREATER CHINA DIVISION

3RD FLOOR, SILVER TOWER, NO. 85 TAOYUAN ROAD, HUANGPU DISTRICT, SHANGHAI, 200021, P. R. CHINA
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Drawing List

Engineering Office:	CN Shanghai SED B	
Submitter:	IMPRO INDUSTRIES (YIXING) CO., LTD. (408321)	
Drawing No	Revision No	Drawing Title
NX3259559 - FDRY and HT PS Report	0	NX3259559 - FDRY and HT PS Report
NX3259559 – IMPRO FDRY Renewal and Extension approval document	0	NX3259559 – IMPRO FDRY Renewal and Extension approval document
document for close O2E comments	0	document for close O2E comments

ABS GREATER CHINA DIVISION