



CERTIFICATE NUMBER
13-MMPS-FF&PAC-477
OID: 3012908
O2E: 1046112

PORT OFFICE
ABS MATERIALS HOUSTON

CERTIFICATE OF FORGING FACILITY AND PROCESS APPROVAL

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

Canton Drop Forge,
Canton, Ohio, USA.

attend its facilities as indicated in the ABS port office survey report number C2367400 dated 30 May, 2013, in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Steel Forgings for Marine Applications.

in accordance with the ABS Approval letter, ABS Rules, designated standards and ABS approved drawings. The approval is valid subject to adherence to relevant ABS Rules and survey requirements and annual facility endorsement by an ABS representative.

ISSUE DATE 30 May 13 EXPIRATION DATE 29 May 18

SIGNATURE

Gopal Magadi
ABS MANAGER, MATERIALS, HOUSTON

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.



FROM: Materials Department

TO: Canton Drop Forge, Canton, Ohio

ATTN: Dan Antos

ENGINEER: V. Balasubramaniam

CC: Pat Walsh (ABS Cleveland)

Subject: Canton Drop Forge, Canton, Ohio, USA

Initial Forging Facility and Process Approval to Produce Steel Forging Products for Use in Marine Applications.

TASK: 1027023, OID: 3012908

PAGES: 2

EMAIL: dantos@Cantondropforge.com

MMPS No: 8009

FAX: 1-440-895-8904


We have your submittals dated 17 April 2013 together with enclosures, relative to the subject, and in regard thereto, we advise that Canton Drop Forge, Canton, Ohio, USA is considered facility and process approved to produce Steel Forgings as outlined below. All the relevant ABS Rules 2013 (2-1-6, 2-3-7) are to be adhered to, in all respects, and production, inspection and testing of the Forgings is to be to the satisfaction of the attending ABS Surveyor.

Product	: Steel Forgings ⁽¹⁾⁽²⁾ (Gear, Shaft, Spur Gear-Shaft, Multiple Spur Pinion) ⁽³⁾
Alloy Type	: Non-ABS Grades
	: Carbon, Low Alloy & Alloy Steels
	: Grades 4820H and 4340H meeting AISI and ASTM A304 Standard/Specification Requirements
Supply Condition	: Quenched and Tempered (Q&T)
Manufacturing Process	: Closed Die Forging
Maximum Weight	: 522 lbs.

Notes:

1. Steel Forgings are to be design approved when used on ABS Classed Vessels.
2. It is the responsibility of the facility to inform and obtain ABS approval, if any changes are made in the manufacturing procedure specification(s), and/or, to the processing parameters as compared to initially approved technical document(s).
3. Weld repairs of listed and approved forged steel components are not carried out as indicated in the reviewed document.

Very Truly Yours,
Matthew D. Tremblay
Vice President of Engineering
ABS Americas

By: 
Gopalakrishna Magadi
Manager,
ABS Materials, Houston