



FROM: Materials Department
TO: Clifford-Jacobs Forging Co.
ATTN: Troy Mitchell

DATE: 01 April 2014

PAGE: 1 of 1

EMAIL: ttmitchell@clifford-jacobs.com
CC: Joe Kelly (ABS Chicago)

ENGINEER: Jim Oehrle
O2E TASK No: T1159339

MMPS: 5833
OID: 3214637

SUBJECT: Clifford-Jacobs Forging Co., Champaign, Illinois
Renewal of Forge Facility and Process Approval to Produce Steel Forged Products for Marine Applications.

We have received ABS Chicago survey report CH2296209 on the subject, together with enclosures, relative to the subject, and with regard thereto, we advise that Clifford-Jacobs Forging Co. is considered facility and process approved to produce steel forged products as outlined below. The relevant ABS Rules (Part 2: Materials & Welding 2-3-7 (2014)) are to be adhered to in all respects, and production, inspection, and testing of forgings are to be to the satisfaction of the attending ABS Surveyor.

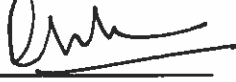
Product	:	Steel Forgings⁽¹⁾⁽²⁾ (Gear, Wheel)⁽³⁾⁽⁴⁾
Alloy Type	:	Non ABS Grades
	:	Carbon, C-Mn & Low Alloy Steels
	:	In accordance with: ASTM A294: Gr. A, Cl 2 AISI 4140H
Manufacturing Process	:	Closed Die Forging
Maximum Weight	:	360 kg (800 lb)
Maximum Diameter	:	318 mm (12.5")

Notes:

1. Forgings are to be design approved when used on ABS classed vessels / offshore installations.
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 products are not permitted as indicated in the reviewed documents.
4. Forgings produced for ABS Classed applications are to have an ABS Surveyor in attendance at the facility for unit certification.

Very truly yours,

Matthew D, Tremblay
Vice President of Engineering
ABS Americas

By: 
V. Balasubramaniam
Principal Engineer
ABS Materials, Houston



CERTIFICATE NUMBER
14-MMPS-FF&PAC-548

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

Clifford-Jacobs Forging Co., Champaign, Illinois

attended its facilities as indicated in the ABS Chicago port office survey report number CH2296209 dated 14 February 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 14 Feb 13 EXPIRATION DATE 13 Feb 18

SIGNATURE

V BALASUBRAMANIAM
PRINCIPAL ENGINEER
ABS MATERIALS, HOUSTON



FIRST ANNUAL
ENDORSEMENT

SECOND ANNUAL
ENDORSEMENT

THIRD ANNUAL
ENDORSEMENT

FOURTH ANNUAL
ENDORSEMENT

Project #: 3214637; Task #: T1159339; Office Ref #: 5833

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.