



CERTIFICATE NUMBER
323618-1927617-001

PLANT LOCATION
Hermitage, Pennsylvania

PORT OFFICE
Erie, Pennsylvania

CERTIFICATE OF MANUFACTURING ASSESSMENT

**This is to certify that a representative of ABS did, at the request of
Ellwood Crankshaft & Machine Co.**

attend its facilities on the date and location stated, in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing a product which meets the designated standards, subject to annual facility surveys by a representative of ABS and renewal of this Certificate after five (5) years.

PRODUCT DESCRIPTION Manufacturing System

ISSUE DATE 20 December 2010

EXPIRATION DATE 19 December 2015

SURVEYOR'S SIGNATURE

S.R. Carter



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. Any significant changes to the aforementioned manufacturing process without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-AM5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

American Bureau of Shipping



Founded 1862

CERTIFICATE NO:
08-MMPS-FF&PAC-168

EFFECTIVE DATE:
06 JUNE 2008

FORGING FACILITY AND PROCESS APPROVAL CERTIFICATE

*BASED ON ENGINEERING REVIEW AND A PLANT SURVEY OF THE FACILITY, IT IS
HEREBY CERTIFIED THAT*

ELLWOOD NATIONAL CRANKSHAFT, IRVINE , PENNSYLVANIA

*IS APPROVED TO PRODUCE MACHINERY STEEL FORGINGS FOR USE IN MARINE
APPLICATIONS, AS OUTLINED IN ABS ERIE PORT OFFICE SURVEY REPORT NO: ER1010269,
DATED 06 JUNE 2008.*

*THIS APPROVAL IS VALID FOR FIVE YEARS FROM THE EFFECTIVE DATE ON THIS
CERTIFICATE. THE RELEVANT ABS RULES 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.*



Mike Wheatcroft
Chief Engineer,
ABS Materials, Houston

Ref: MMPS: 5853; O2E TASK: 354862;
OID: 1916989

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