



Indian Register of Shipping

Certificate No.: 2023WAQC006

WORKS APPROVAL CERTIFICATE

This is to certify that based on the existing manufacturing facilities and satisfactory assessment of manufacturing and quality control procedures by our Surveyors, the name of

Ellwood Crankshaft & Machine,

Unit 1: 2727 Freedland Road, Hermitage, PA 16148, USA.

Unit 2: Ellwood National Crankshaft, 1 Front Street, Irvine, PA 16329, USA.

Unit 3: Ellwood Crankshaft and Machine Co., 1161 N Sharpsville Ave, Sharon, PA 16146, USA

is retained in the list of approved works in accordance with the relevant requirements of rule(s)/standard(s)/code described below.

WORKS TYPE : FORGESHOP
PRODUCT TYPE : Forge Shop - Crankshaft (Forging & Finish Machining)
APPLICABLE RULE(S)/STANDARD(S)/CODE: Part 2 Chapter 5 of IRS Rules and Regulations for the Construction and Classification of Steel Ship
SCHEDULE OF APPROVAL : SEE ANNEXURE I

This Certificate Is Valid until : 28/09/2025

PLACE OF ISSUE: MUMBAI

DATE OF ISSUE: 08/02/2023

LOCAL SURVEY OFFICE: HOUSTON



FOR, INDIAN REGISTER OF SHIPPING


Premjit Panigrahi

Sr. Principal Surveyor

This certificate supercedes the certificate No : 2020WAQC012 issued on : 26/10/2020

This Certificate is issued upon the following terms and conditions as laid down in the Society's Regulations:-

Whilst Indian Register of Shipping, a Classification Society, along with its subsidiaries and associates (hereinafter referred to as the Society) and its Board/Committees use their best endeavors to ensure that the functions of the Society are properly carried out, in providing services, information or advice neither the Society nor any of its servants or agents warrants the accuracy of any information or advice supplied. Except as set out herein neither the Society nor any of its servants or agents (on behalf of each of whom the Society has agreed this clause) shall be liable for any loss damage or expense whatever sustained by any person due to any act or omission or error of whatsoever nature and however caused of the Society, its servants or agents or due to any inaccuracy of whatsoever nature and howsoever caused in any information or advice given in any way whatsoever by or on behalf of the Society, even if held to amount to a breach of warranty. Nevertheless, if any person uses services of the Society, or relies on any information or advice given by or on behalf of the Society and suffers loss damage or expenses thereby which is proved to have been due to any negligent act omission or error of the Society, its servants or agents or any negligent inaccuracy in information or advice given by or on behalf of the Society then the Society will pay compensation to such person for his proved loss up to but not exceeding the amount of the fee charged by the Society for that particular service, information or advice.

Any notice of claim for loss, damage or expense, as referred to above, shall be made in writing to the Society's Head Office within six months of the date when the service, information or advice was first provided, failing which all the rights to any such claim shall be forfeited and the Society shall be relieved and discharged from all liabilities.

ANNEXURE - I
SCHEDULE OF APPROVAL

PRODUCT DESCRIPTION/DETAILS:

Steel Forgings for Crankshafts - As-Forged, Rough Machined or Finish Machined
Material : Carbon, Carbon-Manganese and Alloy Steel

Scope :

[Unit 1] Ellwood Crankshaft and Machine Co. at Hermitage PA, USA: Machining Facility

[Unit 2] Ellwood National Crankshaft at Irvine, PA, USA: C, C-Mn & Alloy Steel Forgings up to 6 tonne

[Unit 3] Ellwood Crankshaft and Machine Co. at Sharon PA, USA: C, C-Mn & Alloy Steel Forgings up to 50 tonne

REMARKS:

NIL

RESTRICTIONS:

NIL

DOCUMENTATION:

Surveyor's Report No. HOU23W001 & DNVGL Certificate No: AMMM000021S Rev. 1

TEST REPORTS:

NIL

CONDITIONS OF APPROVAL:

This approval is subject to:

- 1 Approval of works under this scheme will not eliminate normal inspection and testing.
- 2 Any alteration being made to manufacturing facilities and procedures would require re-assessment of the works for continued approval.
- 3 Testing being carried out only at approved test houses to surveyor's satisfaction when supplying forgings under IRS inspection.
- 4 Raw materials for forgings are to be procured from approved works and the relevant certificates are to be verified during the inspection.
- 5 Periodical Annual Surveillance audit by the surveyors of Indian Register of Shipping and endorsement in Annexure - II of the certificate.



