



Marine & Offshore

Certificate number: SMS.W.I./71299/F.0



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RECOGNITION FOR BV MODE I SCHEME

Ellwood Crankshaft Group (Ellwood Crankshaft and Machine Co.)
Hermitage, PA - UNITED STATES OF AMERICA

Summary of the range of the recognition which is detailed in the subsequent page(s):

Ellwood Crankshaft Group (Ellwood Crankshaft & Machine Co.) - Crankshaft Finish Machining Process.

Ellwood Crankshaft Group (Sharon Forge) - Forging, Heat Treatment, Mechanical Testing and Rough Machining.

This certificate is issued to attest that Bureau Veritas Marine & Offshore has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the quality management system related to the range of the recognition.

This certificate will expire on: 21 Aug 2028

For Bureau Veritas Marine & Offshore,

At BV PORT EVERGLADES CENTRE, on 29 Aug 2024,

Flavio Rosas

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfRecognition.jsp?id=rkvb2ad3yb>

THE SCHEDULE OF RECOGNITION

1. RANGE OF THE RECOGNITION

The products corresponding to the categories listed in the table below are to be certified individually or per batch with a certificate of conformity endorsed by Bureau Veritas Marine & Offshore.

Generic product	Description
CRANKSHAFT	ECG (ECM Co.) does the machining of the forgings provided by Ellwood Crankshaft Group (Sharon Forge), Ellwood National Crankshaft & Ellwood City Forge Company (Ellwood City & New Castle Plants).
FORGING	ECG (Sharon Forge) -TAC 48402- Mfg Carbon, carbon-manganese and alloy steel forgings for crankshaft. Max weight 25 tons. Condition: Heat treated and rough machined. Forging press and H. Treatment furnace capability: Crankshaft max forging weight 50 tons.

2. LIMITATIONS

The certificates listed in the range of recognition are to be valid, as applicable.

Bureau Veritas Marine & Offshore is to be informed immediately of any modification to quality management system in order to agree on appropriate actions.

Ellwood Crankshaft Group (Ellwood Crankshaft and Machine Co.) has to manufacture, examine and test the products as per the quality plan agreed with Bureau Veritas Marine & Offshore.

Ellwood Crankshaft Group (Ellwood Crankshaft and Machine Co.) has to submit the product certificates of conformity for endorsement by Bureau Veritas Marine & Offshore as agreed with Bureau Veritas Marine & Offshore.

Ellwood Crankshaft Group (Ellwood Crankshaft and Machine Co.) has to mark the products as agreed with Bureau Veritas Marine & Offshore.

Ellwood Crankshaft Group (Ellwood Crankshaft and Machine Co.) has to apply for the periodical audits as agreed with Bureau Veritas Marine & Offshore.

3. PERIMETER OF CERTIFICATION

Quality system of following site(s) has been assessed:

Ellwood Crankshaft Group (Ellwood Crankshaft and Machine Co.) - Hermitage, PA - UNITED STATES OF AMERICA

Ellwood Crankshaft Group (Sharon Forge) - Sharon, PA - UNITED STATES OF AMERICA

4. REMARKS

Ellwood Crankshaft Group (Ellwood Crankshaft & Machine Co.). Main address: 2727 Freeland Road Hermitage, PA 16148 USA.

Ellwood Crankshaft Group (Sharon Forge): Address: 1161 Sharpsville Avenue Sharon, PA 16146 USA.

*** END OF CERTIFICATE ***