

COPY

LLOYD'S REGISTER OF SHIPPING



Port MANCHESTER.

157.

16th December, 1959.

This is to Certify that

J.W. COULTHARD

the undersigned Surveyor to this Society did at the request of

The National Gas & Oil Engine Co. Limited,
attend at their works for the purpose of examining and testing

One M4A3 Type Heavy Oil Engine driving English Electric 30 kW Generator
Serial No. DCG.0176/369 for The Vulcan Foundry Co. Ltd., Contract No.
46896/70 and intended for vessel building at Samuel White, Cowes,
Particulars of the engine are as follows:- Yard No. 2007.

Engine Number.....	91138.
Type	4 SCSEA.
Number of Cylinders	3.
Diameter of Cylinders.....	6".
Stroke	8.1/2".
Maximum Pressure.....	1000 psi.
Mean Indicated Pressure.....	110 psi.
Brake Horse Power	62.
Revolutions per Minute	750.
Span of Bearings.....	6.7/8".
Diameter of Journals	5.308".
Diameter of Crankpins.....	4.5".
Breadth of Webs	7.1/4".
Thickness of Webs	1.1/2".

This engine has been built under Special Survey, in accordance with the Approved Plans and Rules of the Society, materials and workmanship being good.

governing tests proved to be satisfactory. , coupled to the generator

On completion, the above machinery was tried in the shops under working conditions with satisfactory results.

For purposes of identification the cylinder block and crankshaft were stamped thus:-

Cylinder Block.

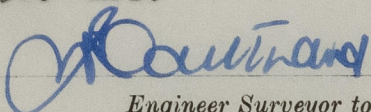
LLOYD'S TEST

60 lb./sq. in.
13.7.59. JWC.

Crankshaft.

LLOYD'S TEST

No. 3556. MCH.
23.9.58. RJY.



Engineer Surveyor to
Lloyd's Register of Shipping.

Fee:— £ 7.15.0d. Exp:— £-15.0d.

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—

"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default, or negligence of any of its Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."