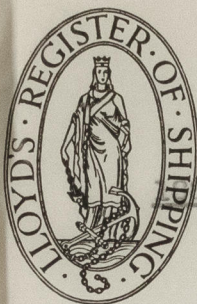


COPY

Southampton

LLOYD'S REGISTER OF SHIPPING



Port MANCHESTER.

13th December, 1958.

This is to Certify that

J.W. COULTHARD

the undersigned Surveyor to this Society did at the request of
The National Gas & O.E. Co. Limited, Ashton-under-Lyne,

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. DGG.0176/69 for The English Electric Co. Limited
Contract Order No. 46889/70 for Ship No. 2002 building at Messrs. J.

Particulars of the engine are as follows:- Samuel White.

Engine Number.....	91092.
Type	M4A3.
Number of Cylinders	3.
Diameter of Cylinders	6.
Stroke	8½".
Maximum Pressure	1000psi.
Mean Indicated Pressure	110 psi.
Brake Horse Power	62.
Revolutions per Minute	750.
Span of Bearings	6½".
Diameter of Journals	5.308".
Diameter of Crankpins	4.5".
Breadth of Webs	7½".
Thickness of Webs	1½".

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

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

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

LLOYD'S TEST
60
JWC. 20.10.58. lb./sq.in.

LLOYD'S TEST
SHF.Y.A.19.8.58.
No. J.8920.

Fee:— £ 7.15.0d. Exp-£-15.0d.

J.W. Coulthard
Engineer Surveyor to
Lloyd's Register of Shipping.

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."