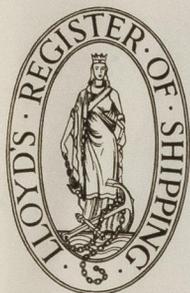


# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER



*brooke haine limited - Yard No 243 M.V. huksum*

*Attach to Ipswich Report No. 133835*

Port

LESIS.

For  
Classn. "C"  
London  
Copy sent to

3rd June, 1955.

.....Manchester.....

This is to Certify that

A.T. ROBERTSON.

the undersigned Surveyor to this Society did at the request of

Messrs. J. & H. McLaren Ltd., Leeds, 10.

attend at their works for the purpose of examining and testing  
One M.4 Heavy Oil Auxiliary Engine supplied to Messrs. Mirrlees, Bickerton  
& Day Ltd., Order No. B.5764/171/4606.

Particulars of the engine are as follows:-

Engine Number.....	43522.
Type .....	4 S.C.S.A.
Number of Cylinders .....	4
Diameter of Cylinders.....	142 mm.
Stroke .....	200 mm.
Maximum Pressure.....	900 lbs/sq. in.
Mean Indicated Pressure.....	90 lbs/sq. in.
Brake Horse Power .....	88.
Revolutions per Minute .....	1000.
Span of Bearings.....	178 mm.
Diameter of Journals .....	85 mm.
Diameter of Crankpins.....	85 mm.
Breadth of Webs .....	150 mm.
Thickness of Webs .....	43 mm.

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.

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

LLOYD'S TEST  
60 lb./sq. in.  
A.T.R. 2-5-55.

LLOYD'S TEST  
No. A.T.R. Lda.  
2-5-55.

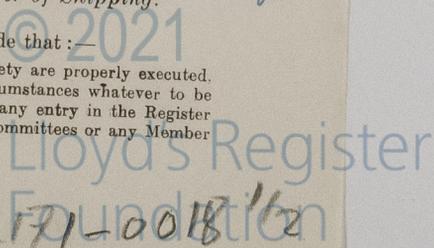
Contd. on Page.2.

*is engine has now been installed and run on test coupled to a 50KW generator under full load when all was found in good order.*

Fee:— £8. 16. 0.  
Exp: 8. 0.

Engineer Surveyor to *G. Talbot*  
Lloyd's Register of Shipping. *Lowestoft*

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 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."



Further to the particulars already mentioned, this unit drives a 50 K.W. Brush Electric Generator No. 65316 which was found to function satisfactorily under test.

The spare gear for this engine was also checked and found to comply with the Rule Requirements.



Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register  
Foundation

012165-012171-0018