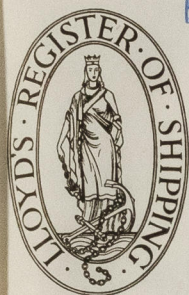


LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER



Brooke Marine Ltd - yard No 243 M.V. Luskum

Attach to Ipswich Report No 133835.

Port

LEEDS.

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. 2 Heavy Oil Auxiliary Engine supplied to Messrs. Hirstless, Bickerton
& Day Ltd., Order No. B.5764/171/4606.

Particulars of the engine are as follows:-

Engine Number.....	21897.
Type	4 S.C.S.A.
Number of Cylinders	2.
Diameter of Cylinders.....	142 mm.
Stroke	200 mm.
Maximum Pressure.....	900 lbs/sq.in.
Mean Indicated Pressure.....	90 lbs/sq.in.
Brake Horse Power	44.
Revolutions per Minute	1000.
Span of Bearings.....	178 mm.
Diameter of Journals	85 mm.
Diameter of Crankpins.....	85 mm.
Breadth of Webs	130 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. 2-3-55.

LLOYD'S TEST

No. H. 809. Shf. H.H.

30-12-54.

A.T.R. Lds. 2-3-55.

Contd. on Page 2.

Fee:— £5. 0. 0.

Exp: 8. 0.

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."

Engineer Surveyor to
Lloyd's Register of Shipping.

Lloyd's Register
Foundation

012165-012171-0019

Further to the particulars already mentioned this unit drives a 15 K.W. Brush Electric Generator No. 09418/3 and Hamworthy Air Compressor No. 112950, which were found to function satisfactorily under test.

One Air Receiver No. 5/3120, capacity 3 cubic feet, has been built under survey and reported on Certificate No. C. 7339. This receiver goes with this engine.

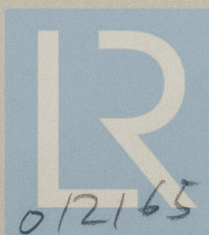
The spare gear for this engine was also checked and found to comply with Rule Requirements.

H. Robertson

Surveyor to Lloyd's Register of Shipping.

This engine has now been installed and run on test under full load conditions coupled to an 18kw generator and auxiliary air compressor. The engine operated satisfactorily and was in good order.

G. Galbot
Howestoft 29/7/56.



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Foundation

2/2

012165-012171-0019