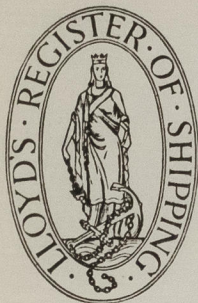


COPY

# LLOYD'S REGISTER OF SHIPPING



GREENOCK

RECEIVED

10 JUN 1963

SC12,099.

Port BRISTOL.

WERED

6th June, 1963.

This is to Certify that

E. J. Loader.

the undersigned Surveyor to this Society did at the request of  
Messrs. Lister Blackstone Marine Ltd., Dursley, Glos.

attend at their works for the purpose of examining and testing  
a two cylinder, type HA2MA air cooled engine.

Particulars of the engine are as follows:-

Engine Number.....	1155HA2M13
Type .....	HA2MA
Number of Cylinders .....	2
Diameter of Cylinders .....	4"
Stroke .....	4½"
Maximum Pressure .....	1050 lb.
Mean Indicated Pressure .....	-
Brake Horse Power .....	19
Revolutions per Minute .....	1500
Span of Bearings .....	3½"
Diameter of Journals .....	3"
Diameter of Crankpins .....	2.5/8"
Breadth of Webs .....	4.1/32"
Thickness of Webs .....	1.0"
Crankcase Volume .....	-
No. & Total Area of Crankcase	
Relief Valves if Fitted .....	-

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.

Particulars of identification marks:

Lloyd's Test.  
BL. 100 psi.  
M6262 24.5.63.

Lloyd's Test.  
S.2803-3.

PORT AUXILIARY UNIT.

Fee:— £7. 0. 0. Expenses:— £1. 0. 0.

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."