



**COPY**  
**LLOYD'S REGISTER OF SHIPPING**

**CERTIFICATE FOR AUXILIARY OIL ENGINES OF LESS THAN 150 B.H.P.**

Date	22.4.65.	Port	BRISTOL.	Cert. No.	LC350.
Manufacturer	Lister Blackstone Marine Ltd.		Works order No.	M56723.	
Purchaser	Scotts Shipbuilding & Engineering Co., Ltd.		Main order No.	799 30.10.64.	
Dates of inspection	First 26.1.65.	Last 21.4.65.	Intended for Ship/Yard/Eng. No.	-	

**This is to Certify** that the auxiliary oil engine, particulars of which are given below, has been built under Special Survey in accordance with approved plans and the Rules of the Society. The materials and workmanship are good. On completion, the machinery was tried in the shops under working conditions with satisfactory results.

**PARTICULARS**

Engine No.	97HA2M15.
Type	HA2
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"
Crankcase volume	-
Number and total area of crankcase relief valves if fitted	-

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GREENOCK  
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26 APR 1965  
ANSWERED.....

Engine direct coupled to a B.K.B. 5 K.W., 45.5.amps., 110 volts, D.C. dynamo, No. 32992/1, Worthington Simpson air compressor, No. 5296537 and Desmi type EA 80 pump, No. 17157.

Identification marks No. 6821. Crankshaft :-  
100 psi. 3259/1.

PL. 26.1.65.

(initials) (date)

Fee £7. 0. 0.

Expenses £1. 0. 0.

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Surveyor to Lloyd's Register of Shipping

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"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."