

REPORT ON AUXILIARY INTERNAL COMBUSTION RECIPROCATING ENGINES

FOR CONSIDERATION BY THE COMMITTEE OF LLOYD'S REGISTER OF SHIPPING

Ship's Name  
(or contract No.)

**"STEENBOK"**

Port LONDON.

**521**

Gross tons *A* Date of completing rpt. 6th April, 1965. Rpt. No. 153532.

Place of survey, if different from above Stamford.  
No. of visits in shops Four. First date 25th February, 1965. Last date 30th March, 1965.

Ship built by Ferguson Bros: Ltd. Yard No. 443.  
Aux. engines made by Blackstone & Co. Ltd., BM.91139. Eng. No. ER4A65 B117. When 1965.  
Fee £25/12/6. Expenses £4/-/-.

Description (including type name)	Lister Blackstone ER4MA type diesel engine generator set.	No. of sets	One.
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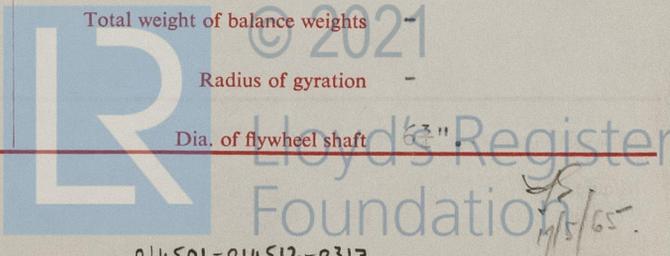
No. of cylinders, each engine	4.	No. of exhaust gas driven blowers/superchargers, each engine	None.	
Dia. of cylinders	8 3/4".	Is welded construction used for	Bedplate? No.	
Stroke	11 1/2".		Entablature? No.	
2 or 4 stroke cycle	4.	Total internal volume of crankcase, if 20 cu.ft. or over	30 cu. ft.	
Approved service B.H.P., each engine	225. ✓	Crankcase explosion relief devices	No. Two. ✓	
Corresponding R.P.M.	750. ✓		Total area	22 sq. ins. ✓
Corresponding M.I.P.	106 p.s.i.g. ✓	Are flame guards or traps fitted to relief devices?	Yes.	
Maximum cyl. pressure	800 p.s.i.g. ✓	Cooling medium for	Cylinders Fresh water.	
Fuel	Gas oil.		Pistons	Nil.
			Fuel valves	Nil.
If cylinders in vee or other special formation, state	Angle of vee No. of crankshafts, each engine -	No. of attached pumps	F.W. COOLING One.	
			S.W. COOLING One.	LUB. OIL Two.
Is engine of opposed piston type?	No.	How is engine started?	Comp: air.	
No. and type of mechanically driven scavenge pumps/blowers, each engine	None.			

SHAFTING

Is a damper or detuner fitted?	No.	Webs	Dia. of journals	6 3/4". ✓	
Type	-		Breadth at mid-throw	7 3/4" ✓	
No. of main bearings	6.		Axial thickness	2.25/32". ✓	
Are bearings of ball or roller type?	No.		If shrunk, radial thickness around eyeholes	-	
Distance between inner edges of bearings in way of cranks	10.1/16". ✓	Nominal shrinkage allowance if dowel pins are not fitted	-	Flywheel	
Is crankshaft built, semi-built or solid?	Solid. ✓	Diameter	40". ✓		
Material of crankshaft	EN 8 steel. ✓	Weight	1083 Lb. ✓	Are balance weights fitted?	None.
Minimum approved tensile strength	40 T/sq.": ✓	Total weight of balance weights	-	Radius of gyration	-
Dia. of crankpins	6 1/8". ✓	Dia. of flywheel shaft	6 3/8". ✓		

Note:—The particulars in this report are to be given as fully and as clearly as possible. Where the answer is "NO" or "NONE" say so. Ticks and other signs of doubtful meaning are not to be used. Wording not applicable to be cancelled.

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.



*Handwritten signature and date*

Has each engine been tested in the shop? Yes. Was it tested with driven machinery attached? Yes.

How long at full power? 4 Hrs & 1 Hr on 110%. Was the governing tested and found satisfactory? Yes.

DATE OF APPROVAL OF TORSIONAL VIBRATION CHARACTERISTICS

(If 150 B.H.P. or over)

London Outdoor Office letter 30th September, 1964.

PARTICULARS OF DRIVEN MACHINERY

Laurence Scott & Electromotors Ltd., 3 phases 60 cycles 380 volts 0.8 PF alternator No.267185.

PORT & No. OF CERTIFICATES FOR STARTING AIR RECEIVERS

ELECTRIC GENERATORS (Copies of certificates to be forwarded)

If 100 kW or over

Port

If less than 100 kW, have makers' certificates been supplied?

No. of cert.

DECLARATION TO BE SIGNED BY ENGINE BUILDERS

To the best of our knowledge this machinery has been soundly constructed in conformity with the Rules, Regulations and requirements of Lloyd's Register of Shipping, and the foregoing particulars of auxiliary sets are correct.

6.4.65 (date) BLACKSTONE & CO. LTD.

(signature) R. Granger

DATES OF APPROVAL OF PLANS 30.9.64.

IDENTIFICATION MARKS ON SHAFTING

LLOYDS. C.727:008/2397. K.N. Mhm. 5.3.65. W.W. LON. 18.3.65.

A previous similar case was for (name or contract No.)

Engine No.

Rpt. No.

The machinery reported above has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters. The materials and workmanship are good, the spare gear required by the Rules has been supplied and the machinery is eligible, in my opinion, to be fitted in a classed ship.

W. Wadde

Surveyor to Lloyd's Register of Shipping

DECLARATION TO BE COMPLETED AND SIGNED BY THE SURVEYOR AT THE PORT OF INSTALLATION

The above machinery has been fitted in THE NON PROPELLED VESSEL "STEENBOK"

at PORT GLASGOW

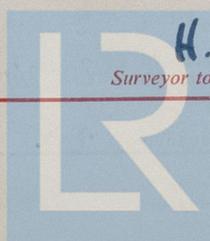
in a proper manner and found satisfactory

when tested on (date) 4/11/65 & 1/12/65 under full working conditions.

H.K. Taylor  
Surveyor to Lloyd's Register of Shipping

Date of Committee GLASGOW - 8 MAR 1966

Minute SEE ACCOMPANYING MACHINERY REPORT.

 Lloyd's Register Foundation

NOTE.—Where existing machinery is submitted for classification, the circumstances are to be explained as fully as possible, and the recommendation should be suitably amended.