

808

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 MANCHESTER, File 543.

Gross tons

Date of
completing rpt. 6.7.65.

Rpt. No. 1092.

Place of survey, if different from above

No. of visits
in shops 8.

First date 2.10.64.

Last date 28.4.65.

Ship built by Ferguson Bros. (Port Glasgow).

Yard No. 443.

Aux. engines
made by

Mirrlees National Limited.

Eng. No. 6054/1. ✓ When 1965.

Fee 889.10.6d. 10% Old Fee.
10% New Fee.

Expenses £1.4.0d.

Description (including
type name)Type FSSA5 Diesel Engine
Flexi Driving a 290 kW Generator,
250 kW Alternator & 50 kW Generator.

No. of sets One.

No. of cylinders, each engine	5. ✓	No. of exhaust gas driven blowers/ superchargers, each engine	One. ✓	
Dia. of cylinders	12". ✓	Is welded construction used for {	Bedplate? No.	
Stroke	15". ✓		Entablature? No.	
2 or 4 stroke cycle	4.	Total internal volume of crankcase, if 20 cu.ft. or over	86.1 cu.ft.	
Approved service B.H.P., each engine	950. ✓ 965	Crankcase explosion relief devices {	No. 5.	
Corresponding R.P.M.	600. ✓		Total area	142 sq.in.
Corresponding M.I.P.	167. ✓	Are flame guards or traps fitted to relief devices?	Yes.	
Maximum cyl. pressure	965. ✓ 950	Cooling medium for {	Cylinders	Fresh Water.
Fuel	Diesel Oil.		Pistons	Oil Splash.
If cylinders in vee { or other special formation, state {	Angle of vee No. of crank- shafts, each engine		Fuel valves	None.
Is engine of opposed piston type?	No.	No. of attached pumps {	F.W. COOLING 1	
No. and type of mechanically driven scavenge pumps/blowers, each engine	None.		S.W. COOLING	LUB. OIL
		How is engine started?	By Compressed Air.	

SHAFTING

Is a damper or detuner fitted?	Yes.	Webs {	Dia. of journals	8.9985". ✓
Type	Holset Flexible Couplings.		Breadth at mid-throw	12.625". ✓
No. of main bearings	6.		Axial thickness	3.5". ✓
Are bearings of ball or roller type?	Plain.		If shrunk, radial thickness around eyeholes	-
Distance between inner edges of bearings in way of cranks	14.3/4". ✓	Nominal shrinkage allowance if dowel pins are not fitted	-	Flywheel {
Is crankshaft built, semi-built or solid?	Solid.	Diameter	4' 2".	
Material of crankshaft	O.H. Steel.	Weight	3018 lbs.	Are balance weights fitted?
Minimum approved tensile strength	40 tons/sq.in.	Are balance weights fitted?	Yes.	
Dia. of crankpins	8.4985". ✓	Total weight of balance weights	880 lbs. ✓	Radius of gyration
		Radius of gyration	9.5".	
		Dia. of flywheel shaft	Integral.	

Has each engine been tested in the shop? **Yes.** Was it tested with driven machinery attached? **Yes.**
 How long at full power? **6 Hours.** Was the governing tested and found satisfactory? **Yes.**
DATE OF APPROVAL OF TORSIONAL VIBRATION CHARACTERISTICS **16.7.64.**
 (If 150 B.H.P. or over)

PARTICULARS OF DRIVEN MACHINERY
 Laurence Scott Generator 250 kW No. 267181.
 Laurence Scott Alternator 250 kW No. 267182.
 Laurence Scott D.C. Generator 50 kW No. 267184.

PORT & No. OF CERTIFICATES FOR STARTING AIR RECEIVERS
Leeds C.48820 and C.48821.

ELECTRIC GENERATORS (Copies of certificates to be forwarded)
 If 100 kW or over { Port No. of cert. If less than 100 kW, have makers' certificates been supplied?

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.
 (date) **12 JUL 1965**
 (signature) *H. Marshall*
MIRRELL INTERNATIONAL DRAWING OFFICE

DATES OF APPROVAL OF PLANS **16.7.64.**

IDENTIFICATION MARKS ON SHAFTING
 Crank IR. MCH. 6259.
 RJY. 28.12.61.

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.

H. Marshall
 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 "STEENBOEK"**
 at **PORT GLASGOW** in a proper manner and found satisfactory
 when tested on (date) **4/11/65 x 1/12/65** under full working conditions.

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

Date of Committee **GLASGOW - 1 MAR 1966**
 Minute **SEE ACCOMPANYING MACHINERY REPORT.**

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.

