

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

£89.10.6d. 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.

Dia. of cylinders

12".

Stroke

15".

2 or 4 stroke cycle

4.

Approved service B.H.P., each engine

950

Corresponding R.P.M.

600.

Corresponding M.I.P.

167.

Maximum cyl. pressure

965.

Fuel

Diesel Oil.

If cylinders in vee
or other special
formation, stateAngle of vee
No. of crank-
shafts, each engine

No.

Is engine of opposed piston type?

No.

No. and type of mechanically driven
scavenge pumps/blowers, each engine

None.

No. of exhaust gas driven blowers/
superchargers, each engine

One.

Is welded construction
used for

Bedplate?

No.

Entablature?

No.

Total internal volume of
crankcase, if 20 cu.ft. or over

86.1 cu.ft.

Crankcase explosion
relief devices

No.

5.

Total area

142 sq.in.

Are flame guards or traps fitted to
relief devices?

Yes.

Cooling medium for

Cylinders

Fresh Water.

Pistons

Oil Splash.

Fuel valves

None.

F.W. COOLING

1

No. of attached pumps

S.W. COOLING

1

LUB. OIL

1

How is engine started?

By Compressed
Air.

SHAFTING

Is a damper or detuner fitted?

Yes.

Type

Holset
Flexible
Couplings.

No. of main bearings

6.

Are bearings of ball or roller type?

Plain.

Distance between inner edges of
bearings in way of cranks

14.3/4".

Is crankshaft built, semi-built or solid?

Solid.

Material of crankshaft

O.H. Steel.

Minimum approved
tensile strength

40 tons/sq.in.

Dia. of crankpins

8.4985".

Dia. of journals

8.9985".

Breadth at mid-throw

12.625".

Axial thickness

3.5".

If shrunk, radial thickness
around eyeholes

-

Nominal shrinkage allowance
if dowel pins are not fitted

-

Flywheel

Diameter

4' 2".

Weight

3013 lbs.

Are balance weights fitted?

Yes.

Total weight of balance weights

880 lbs.

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
(If 150 B.H.P. or over) 16.7.64.

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 | 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.

(date)



DATES OF APPROVAL OF PLANS

16.7.64.

IDENTIFICATION MARKS ON SHAFTING

Crank LR. 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.

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.

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 x 1/12/65** under full working conditions.

Thurway
Surveyor to Lloyd's Register of Shipping

Date of Committee **GLASGOW 1 MAR 1966**

Minute **SEE ACCOMPANYING MACHINERY REPORT.**

