

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

Date of 6th April,
completing rpt. 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

When 1965.

10.5.65 Fee

£25/12/6.

Expenses

£4/-/-.

Description (including
type name)Lister Blackstone ER4MA type diesel engine
generator set.

No. of sets One.

No. of cylinders, each engine

4.

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

None.

Dia. of cylinders

8 $\frac{3}{4}$ ".Is welded construction
used for

Bedplate?

No.

Stroke

11 $\frac{1}{2}$ ".

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.

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

-

Fuel valves

Nil.

Is engine of opposed piston type?

No.

No. of attached pumps

F.W. COOLING

One.

S.W. COOLING

One.

LUB. OIL

Two.

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

None.

How is engine started?

Comp. air.

SHAFTING

Is a damper or detuner fitted?

No.

Type

-

Dia. of journals

6 $\frac{3}{4}$ ".

Breadth at mid-throw

7 $\frac{3}{4}$ ".

Webs

Axial thickness

2.25/32".

If shrunk, radial thickness
around eyeholes

-

Nominal shrinkage allowance
if dowel pins are not fitted

-

No. of main bearings

6.

Flywheel

Diameter

40".

Weight

1083 Lb.

Are bearings of ball or roller type?

No.

Distance between inner edges of
bearings in way of cranks

10.1/16".

Are balance weights fitted?

None.

Is crankshaft built, semi-built or solid?

Solid.

Material of crankshaft

EN 8 steel.

Total weight of balance weights

-

Minimum approved
tensile strength

40 T/sq. in.

Radius of gyration

-

Dia. of crankpins

6 $\frac{1}{2}$ ".

Dia. of flywheel shaft

6 $\frac{3}{4}$ ".

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

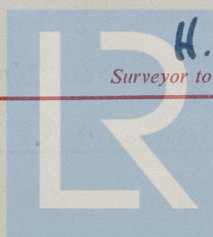
in a proper manner and found satisfactory

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.