

Rpt. 4c.

REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS~~

No. 514

OCT 14 1940

Date of writing Report

19

When handed in at Local Office

19

Port of

Received at London Office
SHEFFIELDNo. in Survey held at
Reg. Book.

Lincoln

Date, First Survey

11-7-40

Last Survey

27-9-1940

Number of Visits

Single
on the Twin
Triple
Quadruple

Screw vessel new M/V GLOUCESTER

Tons { Gross
Net

FIRE PORT

Built at

Glasgow

By whom built A Stephens & Sons Ltd.

Yard No. 575/6. When built

Owners

Port belonging to

Oil Engines made at

Lincoln

By whom made Ruston Hornsby Ltd.

Engine

Contract No. 208570. When made 1940.

Generators made at

By whom made

Contract No.

When made

No. of Sets One, Engine Brake Horse Power 445, Nom. Horse Power as per Rule

Total Capacity of Generators Kilowatts.

OIL ENGINES, &c. Type of Engines 8 V.E.B.Z. Vertical. 4 stroke cycle Single ~~Double~~ acting

Maximum pressure in cylinders 675 lbs. Diameter of cylinders 10 1/4" Length of stroke 14 1/2" No. of cylinders 8 No. of cranks 8

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12 5/16" Is there a bearing between each crank Yes

Revolutions per minute 465. Flywheel dia. 4'-6" Weight 24 1/2 cwt. Means of ignition Diesel. Kind of fuel used Diesel.

Crank Shaft, dia. of journals as per Rule 8" as fitted 8" Crank pin dia. 6 1/4" Crank Webs Mid. length breadth 4 1/2" Mid. length thickness 3 1/16" Thickness parallel to axis 7/8" Thickness around eye hole

Flywheel Shaft, diameter as per Rule 8" as fitted 8" Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 7/8"

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced.

Are the cylinders fitted with safety valves Yes. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material No.

Cooling Water Pumps, No. One, Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One,

Air Compressors, No. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS: Have they been made under Survey State No. of Report or Certificate

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS: Type

Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current

If alternating current system, state the periodicity Has the Automatic Governor been tested and found as per rule when full load is suddenly thrown on and off

Generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

shunt field Are all terminals accessible, clearly marked, and furnished with sockets

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting 7-7-39. Receivers Separate Tanks

SPARE GEAR To Rule Requirements.

The foregoing is a correct description.

R. L. Coyne

Manufacturer.

Oil & Gas Engine Dept.

See Nottingham certificate (on form 10)
for particulars of Starbong generator set
(similar to above)

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004653-004661-0243

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Dates of Survey while building { During progress of work in shops - - 11.7.40. 25.7.40. 19.8.40. 24.9.40. 27.9.40
During erection on board vessel - - -
Total No. of visits 5.

Dates of Examination of principal parts—Cylinders 19.8.40. Covers 19.8.40. Pistons 27.9.40. Piston rods 27.9.40.

Connecting rods 11.7.40. Crank and Flywheel shafts 25.7.40. Intermediate shafts —

Crank and Flywheel shafts, Material *Stn. Steel.* Identification Marks 1299. 25.7.40 A.S.

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers —

Is this machinery duplicate of a previous case *No* If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engine referred to above has been built under Special Survey in accordance with The Rules & Approved Plans.

The materials & workmanship are good

Running tests have been witnessed at the makers works with satisfactory results.

The engine has been dispatched to Messrs A. Stephens of Glasgow for fitting aboard the vessel.

Request form attached.

39/13/126. P/13/16022/16027. 3427.

The amount of Fee £ 8 : 16 :
Less 4/- C/R 119
Travelling Expenses (if any) £ : :
When applied for, 19...
When received, 19...

For A. Smallie & Self L. Kimber.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 29 JUL 1941

SEE ACCOMPANYING MACHINERY REPORT.

Assigned



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