

FOR

REPORT ON OIL ENGINE, ELECTRIC GENERATOR SETS, No. 523.

pt. 4c.

Received at London Office NOV 6 1940 SHEFFIELD.

Date of writing Report 19 When handed in at Local Office 19 Port of Lincoln Date, First Survey 25-7-40 Last Survey 10-10-1940

No. in Survey held at Reg. Book. Lincoln. Date, First Survey 25-7-40 Last Survey 10-10-1940 Number of Visits on the Single Screw vessel new M/V GLOUCESTER

Built at Glasgow. By whom built A. Stephens & Co. Ltd. Yard No. 575/6. When built AFTER PORT

Oil Engines made at Lincoln. By whom made Ruston Hornsby Ltd. ENGINE Contract No. 208571. 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 VERZ. Vertical 4 stroke cycle Single acting Maximum pressure in cylinders 675 ± 5%. 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 Compression Kind of fuel used Diesel oil. Crank Shaft, dia. of journals as per Rule 8" Crank pin dia. 6 1/4" Crank Webs Mid. length breadth 11" Thickness parallel to axis as fitted 8" Mid. length thickness 3 7/16" Thickness around eye-hole Flywheel Shaft, diameter as per Rule 8" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 7/8" as fitted

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

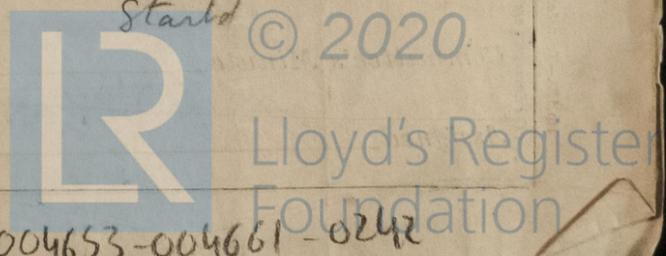
If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements If the generators are 100 kw. or over have they been built and tested under survey

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

SPARE GEAR To Rule Requirements.

39/13/127 P/13/16029. Ruston & Hornsby Limited, The foregoing is a correct description, R. Coyle, Oil & Gas Engine Dept. Manufacturer.

also No 208575



004653-004661-0242

Dates of Survey while building { During progress of work in shops - - 25-7-40. to 10-10-40.
 { During erection on board vessel - - -
 Total No. of visits ✓

Dates of Examination of principal parts—Cylinders 9-9-40. Covers 9-9-40. Pistons 12-10-40. Piston rods ~~12-10-40.~~

Connecting rods 10-10-40. Crank and Flywheel shaft 25-7-40. Intermediate shafts ✓

Crank ~~and Flywheel~~ shafts, Material *Sh. Steel.* Identification Marks *Lloyds. 199. 25-7-40.*

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case *YES.* If so, state name of vessel *Sheffield Rpt. 514.*

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. Stephenson & Co. Glasgow for fitting aboard the vessel.

39/13/127. P.13/16029

The amount of Fee £ 29 ... £ 8 : 16. :
Len 4/- CR.119.

Travelling Expenses (if any) £ : :

When applied for,

19

When received,

19

For A Smellie & Self. W.R. Smellie.

Surveyor to Lloyd's Register of Shipping.

GLASGOW 29 JUL 1941

Committee's Minute

SEE ACCOMPANYING MACHINERY REPORT.

Assigned



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