

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

Received at London Office NOV 26 1940
SHEFFIELD.

Date of writing Report 19 When handed in at Local Office 19 Port of
No. in Survey held at Reg. Book. Lincoln. Date, First Survey 25-7-40 Last Survey 10-10-1940.
Number of Visits

Single on the Twin Triple Quadruple Screw vessel new M/V GLOUCESTER
Built at Glasgow. By whom built A. Stephens & Co. 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. 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 double acting
Maximum pressure in cylinders 675 ± 58. 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"
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

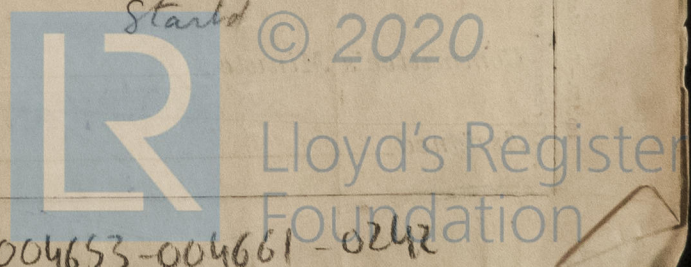
AIR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate
Is each receiver, which can be isolated, fitted with a safety valve as per Rule
Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
Is there a drain arrangement 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.
The foregoing is a correct description,
Ruston & Hornsby Limited,
E. Coysen
Oil & Gas Engine Dept.

also No 208575



004653-004661-0242

Dates of Survey { During progress of work in shops - - 25-7-40. to 10-10-40.
while building { 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. No. 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. :
Less 4/- CR.119.

Travelling Expenses (if any) £ : :

When applied for,

When received,

For A. Smellie & Self. W. R. Smellie.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

GLASGOW 29 JUL 1941

SEE ACCOMPANYING MACHINERY REPORT.



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Foundation