

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

DEC 8 1937

No. 9027

SEP 12 1937

Writing Report SEPT. 4. 1937 When handed in at Local Office SEPT. 10. 1937 Port of MANCHESTER
 Survey held at ALTRINCHAM Date, First Survey 13. FEB. 1937 Last Survey AUG. 31. 1937
 Number of Visits 2

on the Single Screw vessel M.V. SAINT EUNAN
 on the Twin
 Triple
 Quadruple
 Tons { Gross 436
 Net 190

at Groon By whom built FILSA SHIPBUILDING CO. Yard No. 427 When built 1937
 by Robert Harper & Sons Port belonging to Groon

Engines made at ALTRINCHAM By whom made RUSSELL NEWBERRY & CO. ENGINE Contract No. 3371 When made 1937
 Motors made at CHELMSFORD By whom made CROMPTON-PARKINSON LTD. Contract No. 82A2453 When made 1937
 of Sets ONE Engine Brake Horse Power 18 Nom. Horse Power as per Rule 5.1 Total Capacity of Generators 10 Kilowatts.

ENGINES, &c.—Type of Engines VERTICAL SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE
 Maximum pressure in cylinders 900 LBS. Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 2 No. of cranks 2
 of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 3/4" Is there a bearing between each crank YES

Revolutions per minute 1000 Flywheel dia. 25" Weight 308 LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
 Crank Shaft, dia. of journals as per Rule AS APPROVED 2 1/2" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis SOLID
 as fitted 2 1/2" Mid. length thickness 1 5/16" Thickness around eye-hole

Wheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/32"
 as fitted

governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication FORCED

the cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material —

Working 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 75 GALLS PER HOUR GEAR TYPE

Compressors, No. ONE No. of stages 2 Diameters 1 1/2" x 4" Stroke 3" Driven by ENGINE

Exhausting Air Pumps, No. — Diameter — Stroke — Driven by —

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

on 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 220 volts. Load 45.5 Amperes. Direct or Alternating Current DIRECT

Is an alternating current system, state frequency of periods per second —

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES

Generators, do they comply with the requirements regarding rating YES are they compound wound YES

Are they over compounded 5 per cent. YES if not compound wound state distance between each generator —

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 YES

PLANS. Are approved plans forwarded herewith for Shafting YES Receivers — Separate Tanks —

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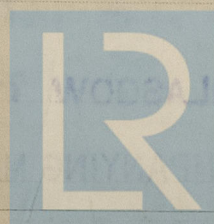
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The foregoing is a correct description,
 per pro. RUSSELL, NEWBERRY & CO.

Johnstone

Manufacturer.



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Lloyd's Register
 Foundation

003706-003711-0024

Dates of Survey while building { During progress of work in shops - - } FEB. 13. AUG. 31. 1937
{ During erection on board vessel - - - } 2
Total No. of visits

Dates of Examination of principal parts—Cylinders 13.2.37 Covers 13.2.37 Pistons 13.2.37 Piston rods —
Connecting rods 13.2.37 Crank and Flywheel shaft 13.2.37 Intermediate shaft —
Crank and Flywheel shafts, Material STEEL Identification Mark 404 ps 7193. MAB. 11.12.36
Intermediate shafts, Material — Identification Marks —

Is this machinery duplicate of a previous case — If so, state name of vessel —

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

THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE SET WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWN SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

100,928—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 44:00 When applied for, 10.9.37 M.

Travelling Expenses (if any) £ 6:00 When received, 26.10.37

Committee's Minute GLASGOW 7-DEC 1937

Assigned SEE ACCOMPANYING MACHINERY REPORT.

Signature: M. Mcintosh
Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register Foundation

Rp

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do these comply with th