

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

55517

Date of writing Report 15th Mar. 1935 When handed in at Local Office 18th Mar. 1935 Port of GLASGOW
 No. in Survey held at Glasgow Date, First Survey 7th Sep 1934 Last Survey 5th Mar. 1935
 Reg. Book. 1071 on the Single Screw vessel ROTHESAY CASTLE Tons { Gross Net
 Built at Belfast By whom built Harland & Wolff Ltd. Yard No. 944 When built 1935
 Owners Union Castle Mail S.S. Co. Ltd. Port belonging to LONDON
 Engines made at Glasgow By whom made Harland & Wolff Ltd. Contract No. 944-1 When made 1935
 Generators made at Belfast By whom made Do. Contract No. 944 When made 1935
 No. of Sets 3 Engine Brake Horse Power 433 Nom. Horse Power as per Rule 371 Total Capacity of Generators 900 Kilowatts.

ENGINES, &c.—Type of Engines Heavy oil, trunk type: air-bus injection 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 500 lb./sq. in. Diameter of cylinders 330 Inchs. Length of stroke 580 Inchs. No. of cylinders 6 No. of cranks 6
 Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 400 Inchs. Is there a bearing between each crank Yes
 Revolutions per minute 270 Flywheel dia. 1900 Inchs. Weight 4.9 tons Means of ignition Compression Kind of fuel used Diesel oil
 Crank Shaft, dia. of journals as per Rule 190 Inchs. Crank pin dia. 220 Inchs. Crank Webs as fitted 280 Inchs. Mid. length breadth 288 Inchs. Thickness parallel to axis Solid
 Flywheel Shaft, diameter as per Rule 190 Inchs. Intermediate Shafts, diameter as fitted 280 Inchs. Mid. length thickness 115 Inchs. Thickness around eyehole Forgings
 Is there a governor or other arrangement fitted to prevent racing of the engine when decoupled 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 Lagged
 Boiling Water Pumps, No. Ship's System Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size 1 each @ 6 1/2 tons/hr.
 Air Compressors, No. None No. of stages Diameters Stroke Driven by
 Sucking Air Pumps, No. None Diameter Stroke Driven by

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule
 Are 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
 Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Working Air Receivers, No. Total cubic capacity Internal diameter thickness
 Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Harland & Wolff — Open type.
 Pressure of supply 220 volts. Load 1350 Amperes. Direct or Alternating Current Direct
 Is the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes
 Do the generators, do they comply with the requirements regarding rating Yes are they compound wound Yes
 Do they over compound 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 Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes
 Are approved plans forwarded herewith for Shafting Oct. 1933 per Mr. Wainwright Receivers Bel. Ppt. Separate Tanks Bel. Ppt.
 ARE GEAR As per list forwarded with fls. Ppt. 55347.

18/3/35.

26/3/35

The foregoing is a correct description,
 For HARLAND AND WOLFF, LIMITED.

Wm. J. Wright
 Finlleston Secretary

Manufacturer.



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Lloyd's Register
 Foundation

W450-0104

Dates of Survey while building { During progress of work in shops - 1934 Sep. 7 Nov. 2. 6. 20. 23. 28 Dec. 19. 24. 28 (1935) Jan. 7. 10. 11. 14. 16. 18. 23. 25. 28. 29.
During erection on board vessel - Feb. 5. 21 Mar 5
Total No. of visits 22

Dates of Examination of principal parts - Cylinders 14-1-35 Covers 16-1-35 Pistons 16-1-35 Piston rods None
Connecting rods 11-1-35 Crank and Flywheel shafts 6, 20+23-11-34 Intermediate shaft None

Crank and Flywheel shaft, Material Steel Identification Mark 440703 563902 + 5050 563902 + 5050 26-11-34 6123-11-34 Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel Birth ship - as per G.L. Rpt. 53347.

General Remarks (State quality of workmanship, opinions as to class, etc.) These three auxiliary engines have been built under special survey in accordance with the Society's Rules. The materials & workmanship are good. Together with the generators they have been examined under full power on the Works' test bed & found satisfactory. The engines & generators have been forwarded to Belfast to be fitted in the vessel.

These engines have been efficiently installed and fastened in place in the main motor room of the vessel. They have been tried out under working conditions with satisfactory results. The vessel is now eligible, in my opinion, for classification in the Society's Register Book.

Wm. James Charles J. Henderson.

The amount of Fee ... £ 37 : 2/-
Electric Generation £ 6 : 6 : 0
Travelling Expenses (if any) £ :

When applied for, 18 MAR 1935
When received, 10th Apr 1935

See Sec's Ltr C.4.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 19 MAR 1935

FRI. 24 MAY 1935

Assigned Deferred.

See Minute on J.E. Rpt.

