

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office 30 JUN 1937

Date of writing Report 29 June 1937 When handed in at Local Office 30 JUN 1937 Port of London
No. in Survey held at Newbury Date, First Survey 4 Nov. 1936 Last Survey 25 May 1937
Reg. Book. Number of Visits 7

on the Single Screw vessel "SERENITY" Tons Gross Net

Built at Greenock By whom built George Brown Works Yard No. 201 When built 1937

Owners J. T. Everard & Son Ltd. Port belonging to

Oil Engines made at Newbury By whom made Newbury Diesel Co. Ltd. Contract No. 3246/B When made 1937

Generators made at By whom made Lawrence Scott & Electromotors Co. Ltd. Contract No. 116566 When made 1937

No. of Sets 1 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 8.6 Total Capacity of Generators 14 Kilowatts.

IL ENGINES, &c.—Type of Engines Airless injection Hand starting 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 700 lb. Diameter of cylinders 10.57 Length of stroke 15.27 No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12.87 Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 63.47 Weight 2.5 cwt Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 61.17 as fitted 62.07 Crank pin dia. 62.7 Crank Webs Mid. length breadth 8.47 Thickness parallel to axis shrunk Mid. length thickness 3.27 Thickness around eye-hole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 10.7

Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched Yes Means of lubrication Forced

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

Cooling Water Pumps, No. 1 SA 4.57 157 500 RPM Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 Gen type 0.7 gal per minute

Air Compressors, No. one No. of stages 2 Diameters 4.47 - 11.07 Stroke 15.07 Driven by timing of 1000 RPM

Scavenging Air Pumps, No. Diameter Stroke Driven by

IR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule See report on main engine # 692.

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 1/2 hour rating

Pressure of supply 110 volts. Full Load Current 127 Amperes. Direct or Alternating Current Direct

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole 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 Type S-1-35 Receivers Separate Tanks

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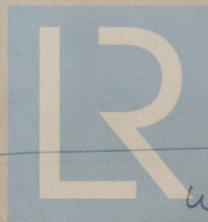
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The foregoing is a correct description For & on behalf of THE NEWBURY DIESEL Co. LTD.

Manufacturer.

SECRETARY.



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449-9347

BALAST TOWER AIR COMPRESSOR

Dates of Survey while building { During progress of work in shops - - } 1936. Nov. 4. 1937. Jan. 19. Feb. 17. Mar. 22. Apr. 12. May 11. 20 = 7. Visits.
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 4-11-36 Covers 4-11-36 Pistons 4-11-36 Piston rods ✓

Connecting rods 4-11-36 Crank and Flywheel shaft 4-11-36 Intermediate shaft ✓

Crank and Flywheel shafts, Material A. D. Nil Identification Mark 27046 6691 MAB 26.10.36

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.) Workmanship good.

This auxiliary engine has been specially surveyed during construction & is in accordance with the approved plans & the Rules.
 It is fitted to a shaft, common to an electric generator, a two cylinder double acting ballast pump & to a two stage air compressor, being direct coupled to the generator & clutch coupled to the pump & to the compressor.
 Shop trials were witnessed when all worked satisfactorily.
 It has now been dispatched to Greenock for fitting onboard.

Attached hereto. Fitting certificate for crank shaft & part of Morse gear.

The amount of Fee £	✓	When applied for,	19.....
Travelling Expenses (if any) £	:	When received,	19.....

Geo. A. Lang
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 6 JUL 1937
 Assigned See G.R. No. 20401



Im. 236.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)