

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

BALLAST PUMPS AIR COMPRESSOR

No. 104614

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 <sup>Single</sup>  
<sup>Twin</sup>  
<sup>Triple</sup>  
<sup>Quadruple</sup> Screw vessel

"SERENITY"

Tons { Gross  
Net

Built at Greenock By whom built George Brown &amp; Co. Yard No. 201 When built 1937

Owners J. T. Everard &amp; 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 &amp; Electromotors 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 Oilless injection Hand starting 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 700 lb./sq. in. Diameter of cylinders 10.57 Length of stroke 16.27 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 YesRevolutions per minute 1000 Flywheel dia. 63.47 Weight 2.5 cwt Means of ignition Compression Kind of fuel used Heavy oilCrank 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 Mid. length thickness 3.27 Thickness parallel to axis shrunk Thickness around eyehole shrunkFlywheel Shaft, diameter as per Rule as fitted Crank shaft Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 10.7Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication ForcedAre the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material YesCooling Water Pumps, No. 1 SA 457 157 500 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

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 16.07 Driven by Thrmg. at 1000 RPMScavenging Air Pumps, No. Diameter Stroke Driven by Thrmg. at 1000 RPMIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule See report on main engine. R 692.Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces YesIs there a drain arrangement fitted at the lowest part of each receiver Yes

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

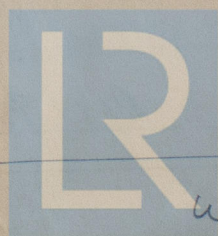
Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type 1/2 hour ratingPressure of supply 110 volts. Full Load Current 127 Amperes. Direct or Alternating Current DirectIf 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 YesGenerators, are they compounded as per rule — is an adjustable regulating resistance fitted in series with eachshunt field — Are all terminals accessible, clearly marked, and furnished with sockets Yesare 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 YesIf the generators are under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements YesIf the generators are 100 kw. or over have they been built and tested under survey YesPLANS. Are approved plans forwarded herewith for Shafting Types 5-1-35 Receivers Yes Separate Tanks YesPARE GEAR See list attached hereto.
 For & on behalf of  
 The foregoing is a correct description.  
 THE NEWBURY DIESEL CO. LTD.

Manufacturer.

SECRETARY.



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Lloyd's Register  
Foundation



7032379910 31A 29m09 18A 11A8  
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. Mil Identification Mark 24046 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.) Workman/Ship good.

This auxiliary engine has been specially surveyed during construction & is in accordance with the approved plans & the Rules.

It is fitted to a Soleplate, 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 & rest of Motion 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. Rpt. No 20401