

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 104613

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 1 June 1936 Last Survey 25 May 1937  
 Reg. Book. Single on the Twin Screw vessel "SERENITY" Tons { Gross Net  
 Built at Greenock By whom built George Brown & Co. Ltd. Yard No. 201 When built 1937  
 Owners J. T. Ewerand & Son Ltd. Port belonging to  
 Oil Engines made at Newbury By whom made Newbury Diesel Co. Ltd. Contract No. 2921/c When made 1937  
 Generators made at By whom made Lawrence Scott & Electromotor Ltd. Contract No. 116574 When made 1937  
 No. of Sets 1 Engine Brake Horse Power 20 Nom. Horse Power as per Rule 5.7 Total Capacity of Generators 5.75 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 in. Length of stroke 15.27 in. No. of cylinders 2 No. of cranks 2  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12.87 in. Is there a bearing between each crank Yes  
 Revolutions per minute 1000 Flywheel dia. 63.47 in. Weight 2.5 cwt. Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 60.57 as fitted 62.07 Crank pin dia. 62.07 Crank Webs Mid. length breadth 8.47 Mid. length thickness 3.27 Thickness parallel to axis shrunk Thickness around eyehole  
 Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 10.7 in.

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

Cooling Water Pumps, No. 1 SA 457 127 500 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

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

Air Compressors, No. No. of stages Diameters Stroke Driven by

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 No 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 hour rating

Pressure of supply 110 volts. Full Load Current 52 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

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

Are approved plans forwarded herewith for Shafting 5-1.35 (typ.) Receivers Separate Tanks

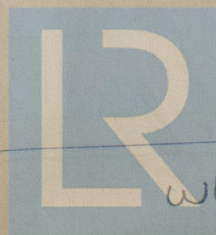
LANE. Are approved plans forwarded herewith for Shafting (If not, state date of approval)

SHAFTING GEAR See list attached hereto

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

Manufacturer.

SECRETARY.



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Lloyd's Register  
 Foundation



Dates of Survey while building { During progress of work in shops - - } 1936 Jun. 7 Aug. 7 Dec. 31. 1937 Jan. 19 Feb. 17 Apr. 12 May 25 = 8 visits  
 { During erection on board vessel - - - }  
 { Total No. of visits }

Dates of Examination of principal parts—Cylinders 7.6.36 Covers 26.6.36 Pistons 31.12.36 Piston rods —

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Connecting rods 21.12.36 Crank and Flywheel shaft 7.8.36 Intermediate shaft -

Crank and Flywheel shafts, Material Y. 2 Steel Identification Mark 21096042 / MAB. 1-2-36

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 of the Rules. Shop trials were witnessed with the engine direct coupled to its electric generator when all worked satisfactorily for fitting on board. It has now been dispatched to Greenock.

Attached hereto: Towing certificate for work shaft & list of Spongers

The amount of Fee ... .. £

Travelling Expenses (if any) £

When applied for,

19.

When received

19

Geo. A. Lang

Surveyor to Lloyd's Register of Shipping.

### Committee's Minute

GLASGOW 6- JUL 1937

Assigned See Grk. Rpt. No. 20401