

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

JUL -7 1937
No. 104613

Received at London Office

Date of writing Report 29th June 1937 When handed in at Local Office 30 JUN 1937 Port of London
No. in Survey held at Newbury Date, First Survey 1st June 1936 Last Survey 25th May 1937
Reg. Book. DE 215 Number of Visits 8

on the Greenock Single Screw vessel "SERENITY" Tons 201 Gross 193 Net 108
Built at Greenock By whom built George Brown & Co. Ltd Yard No. 201 When built 1937

Owners J. T. Everard & Son Ltd Port belonging to Greenock
Oil Engines made at Newbury By whom made Newbury Diesel Co. Ltd. Contract No. 2921/c When made 1937
Generators made at Newbury By whom made Laws & 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 105.7 mm Length of stroke 152.7 mm No. of cylinders 2 No. of cranks 2
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 128.7 mm Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 634.7 mm Weight 2.5 cwt. Means of ignition Companion Kind of fuel used Heavy oil

Crank Shaft, dia. of journals 60.57 as per Rule 62.07 as fitted Crank pin dia. 62.07 Crank Webs 84.7 Mid. length breadth 84.7 Thickness parallel to axis shrunk
62.07 as fitted Mid. length thickness 32.7 Thickness around eyehole shrunk

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

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 Yes

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

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

Air Compressors, No. 1 No. of stages 1 Diameters 100 Stroke 100 Driven by Electric

Scavenging Air Pumps, No. 1 Diameter 100 Stroke 100 Driven by Electric

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 Yes What means are provided for cleaning their inner surfaces None

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. 1 Cubic capacity of each 100 Internal diameter 100 thickness 10

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 50,000 Working pressure by Rules 100

Starting Air Receivers, No. 1 Total cubic capacity 100 Internal diameter 100 thickness 10

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 50,000 Working pressure by Rules 100

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

Generators, are they compounded as per rule Yes 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

If 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 Yes

If the generators are 100 kw. or over have they been built and tested under survey Yes

APPROVED PLANS. Are approved plans forwarded herewith for Shafting 5-1.35 (type) Receivers Yes Separate Tanks Yes

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

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

[Signature] Manufacturer.
SECRETARY



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Lloyd's Register Foundation

wh49-0346

Dates of Survey while building: 1936 June 7, Aug 7, Dec 31, 1937, Jan 19, Feb 17, Apr 12, May 25 = 8 visits

Dates of Examination of principal parts: Cylinders 7.6.36, Covers 26.6.36, Pistons 31.12.36, Piston rods ✓

Connecting rods 21.12.36, Crank and Flywheel shaft 7.8.36, Intermediate shaft -

Crank and Flywheel shafts, Material: S.S. Steel, Identification Mark: Lloyd 6427, MAB. 1.2.36

Intermediate shafts, Material: ✓, Identification Marks: ✓

Is this machinery duplicate of a previous case: No, If so, state name of vessel: -

General Remarks: (State quality of workmanship, opinions as to class, etc.) Workmanship good.

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

[Faint handwritten notes and bleed-through from the reverse side of the page.]

Attached hereto: Triang certificate for crank shaft & part of Spare gear

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

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

Committee's Minute GLASGOW 6 = JUL 1937
Assigned See Grk. Rpt. No. 20401.



S.S.O.7 see Grk. Rpt. No. 20401

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