

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12569.

JUN 1946

Date of writing Report 4th June, 46. When handed in at Local Office 6th June, 46. Port of MANCHESTER.
No. in Survey held at ALTRINCHAM. Date, First Survey 12th April, 1946. Last Survey 23rd May, 1946.
Reg. Book. Single on the Twin Triple Quadruple Screw vessel. PLINT LOCK Number of Visits 5.

Built at Dartmouth. By whom built Philip & Son Ltd. 1100/30. Tons Gross. Net. 1100/30.
Owners Philip & Son Ltd. Port belonging to Philip & Son Ltd. When built 1100/30.

Oil Engines made at Altrincham. By whom made Russell Newbery & Co. Ltd. Engine No. 4012. When made 1946.
Generators made at Dursley. By whom made Mawdsleys Ltd. Generator No. 120 R.1062. When made 1946.
No. of Sets 1. Engine Brake Horse Power 36. Nom. Horse Power as per Rule 9. Total Capacity of Generators 20. Kilowatts.

OIL ENGINES, &c.—Type of Engines Vertical, Solid Injection, Heavy Oil. 2 or 4 stroke cycle 4. Single or double acting single.
Maximum pressure in cylinders 860 lbs per sq. inch. Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 4. No. of cranks 4.
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" Is there a bearing between each crank Yes.
Revolutions per minute 1000. Flywheel dia. 22" Weight 263 lbs. Means of ignition Compression Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals 2 1/2" as per Rule Approved. Crank pin dia. 2 3/8" Crank Webs 3 1/2" Mid. length breadth 1 5/16" Thickness parallel to axis 11/32"
Flywheel Shaft, diameter 2 1/2" as fitted. Intermediate Shafts, diameter 2 1/2" as fitted. Thickness of cylinder liners 11/32"

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. One-plunger type. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

Lubricating Oil Pumps, No. and size One-gear type.

Air Compressors, No. 9. No. of stages 1. Diameters 11" Stroke 11" Driven by Electric
Scavenging Air Pumps, No. 1. Diameter 11" Stroke 11" Driven by Electric

AIR RECEIVERS:—Have they been made under Survey Yes. State No. of Report or Certificate 12569.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes.
Can the internal surfaces of the receivers be examined Yes. What means are provided for cleaning their inner surfaces Yes.

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

High Pressure Air Receivers, No. 1. Cubic capacity of each 1100. Internal diameter 11" Thickness 11/32"

Seamless, lap welded or riveted longitudinal joint Seamless. Material Steel. Range of tensile strength 40,000. Working pressure by Rules 100.

Starting Air Receivers, No. 1. Total cubic capacity 1100. Internal diameter 11" Thickness 11/32"

Seamless, lap welded or riveted longitudinal joint Seamless. Material Steel. Range of tensile strength 40,000. Working pressure by Rules 100.

ELECTRIC GENERATORS:—Type Compound Wound, Continuous Rating, Drip proof.
Pressure of supply 225 volts. Full Load Current 89. Amperes. Direct or Alternating Current Direct.

If alternating current system, state the periodicity 50. Has the Automatic Governor been tested and found as per Rule when full 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.

PLANS.—Are approved plans forwarded herewith for Shafting 1st June, 1945. Receivers Yes. Separate Tanks Yes.

SPARE GEAR AS PER ADMIRALTY REQUIREMENTS.

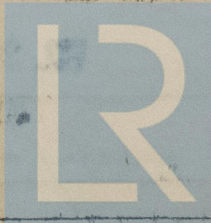
per pro. RUSSELL NEWBERY & CO. LTD.

The foregoing is a correct description,

W. Bradbury

DIRECTOR.

Manufacturer.



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Lloyd's Register
Foundation

005740-005755-0262

1946. April 12, 26, 27 May 1, 23.

Dates of Survey while building
Total No. of visits
Dates of Examination of principal parts - Cylinders 15.5.46. Pistons 12.4.46. Piston rods
Connecting rods 12.4.46. Crank and Flywheel shafts 26.4.46. Intermediate shafts
Material O.H. Steel. Tensile strength 40.0 tons per sq. inch.
Elongation 25.0% on 2". Identification Marks LLOYD'S 3427 WJF. 23.8.45.
Flywheel shaft, Material Identification Marks
Is this machinery duplicate of a previous case Yes. Identification Marks

Identification marks on Generator No. 120 R.1062.

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Manchester Rpt. No. (Same Contract).

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) This engine has been built under special survey, of tested materials, and is in accordance with the Secretary's letters and approved plans. The sparegear supplied is in accordance with Admiralty Requirements, but does not comply with this Society's Rules (See Secretary's letter of the 2nd July, 1945). Materials and workmanship are of good quality and the engine, when tested in the shop under full load conditions, showed satisfactory results.

The amount of Fee 4 0 0 When applied for 6/6/46
Travelling Expenses (if any) £ 13 4. When received

20 SEP 1946

Committee's Minute
Assigned See F.E. Mackay opt.

