

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12568.

Rpt. 4c.

Received at London Office.

MANCHESTER.

Date of writing Report 4th June 1946. When handed in at Local Office 6th June 1946. Port of MANCHESTER.

No. in Survey held at ALTRINCHAM. Date, First Survey 2nd April, 1946. Last Survey 7th May, 1946.  
Reg. Book. 58.3.41 Number of Visits 4

Single on the Twin Triple Quadruple Screw vessel Match Lock Gross Tons 1129/30 Net Tons 1061

Built at Dartmouth By whom built Philip & Son Ltd. When built 1946.

Owners Altrincham Port belonging to Altrincham

Oil Engines made at Altrincham. By whom made Russell Newbery & Co. Ltd. Engine No. 4011. When made 1946.

Generators made at Dursley. By whom made Mawdsleys Ltd. Generator No. 120R. 1061. 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 3 1/2". Thickness parallel to axis shrunk

Flywheel Shaft, diameter 2 1/2" as per Rule Approved. Intermediate Shafts, diameter 2 1/2" as per Rule Approved. 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. 1 No. of stages 1 Diameters 1 1/2" Stroke 1 1/2" Driven by Engine

Scavenging Air Pumps, No. 1 Diameter 1 1/2" Stroke 1 1/2" Driven by Engine

AIR RECEIVERS:—Have they been made under Survey Yes. State No. of Report or Certificate 1129/30

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 100 cu. ft. Internal diameter 1 1/2" thickness 1/8"

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

Starting Air Receivers, No. 1 Total cubic capacity 100 cu. ft. Internal diameter 1 1/2" thickness 1/8"

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

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 cycles per second. 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 Yes.

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 Yes. 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,

Manufacturer.



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Lloyd's Register

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Dates of Survey while building: During progress of work on ship: 1946. April 2, 12, 16. May 7.  
 During erection on board vessel: MAISONVILLE  
 Total No. of visits: 2  
 Dates of Examination of principal parts: Cylinders 2.4.46. Covers 12.16.4.46. Pistons 12.4.46. Piston rods -  
 Connecting rods 12.4.46. Crank and Flywheel shafts 12.4.46. Intermediate shafts -  
 Crank shaft Material O.H. Steel. Tensile strength 43.2 tons per sq. inch.  
 Elongation 27% on 2" Identification Marks LLOYD'S 3426 FH, 18.10.45.  
 Flywheel shaft Material XXXXXXXXXXXXXXXXXXXX Identification Marks LLOYD'S 3426 FH, 18.10.45.  
 Is this machinery duplicate of a previous case? No. Identification Marks -  
 Identification marks on XXXXXXXXXXXX Generator No. 120 R.1061.  
 Is this machinery duplicate of a previous case? No. If so, state name of vessel: -

**GENERAL REMARKS** (State quality of workmanship, operations 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 19 inc)  
 Paying Expenses (if any) 2 : 13 : 4 (When received 10)

**REL 20 SEP 1946**

Committee's Minute  
 Assigned Su F.E. machy. spt.

