

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 2945

Date of writing Report 9th July 1945. When handed in at Local Office 20th July 45. Port of MANCHESTER. 23 JUL 1945

No. in Survey held at MANCHESTER. Date, First Survey 12th April. Last Survey 10th May, 1945.
Reg. Book. Number of Visits 4.

Single
on the Twin
Triple
Quadruple } Screw vessel.

Built at Glasgow. By whom built A. & J. Inglis Ltd. Yard No. J. 286. When built 1302 Tons 1302.

Owners. Port belonging to.

Oil Engines made at Altrincham. By whom made Russell Newbery & Co. Ltd. Engine No. 3884. When made 1945.

Generators made at Stockport. By whom made McClure & Whitfield Generator No. 10219. When made 1945.

No. of Sets 1. Engine Brake Horse Power 18. Nom. Horse Power as per Rule 5.1. Total Capacity of Generators 6½ k.watts.

OIL ENGINES, &c.—Type of Engines Vertical Solid Injections Heavy Oil 2 or 4 stroke cycle 4. Single or double acting single.

Maximum pressure in cylinders 860 lbs/sq in. Diameter of cylinders 4.1/8". Length of stroke 6". No. of cylinders 2. No. of cranks 2.

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. 25". Weight 345 lbs. Means of ignition Compression. Kind of fuel used Diesel Oil.

as per Rule Approved. Crank pin dia. 2.3/8". Crank Webs Mid. length breadth 3½". Thickness parallel to axis 1.5/16".
SPEC Crank Shaft, dia. of journals as fitted 2½". Mid. length thickness 1.5/16". Thickness round eye hole.

Flywheel Shaft, diameter as per Rule. Intermediate Shafts, diameter 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 -.

Cooling Water Pumps, No. One-plunger type. Is the sea suction provided with an efficient strainer which can be cleared within the vessel -.

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

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

Scavenging Air Pumps, No. Diameter. Stroke. Driven by.

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

Is each receiver, which can be isolated, fitted with a safety valve as per Rule.

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 Compound Wound Continuous Rating V.E. Louvred type.

Pressure of supply 110 volts. Full Load Current 59 Amperes. Direct or Alternating Current Direct.

If alternating current system, state the periodicity. 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.

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.

PLANS.—Are approved plans forwarded herewith for Shuffling 1. 9. 44. Receivers. Separate Tanks.

SPARE GEAR As per Rule Requirements.

The foregoing is a correct description,

per pro. **RUSSELL, NEWBERY & Co. Ltd.**

Manufacturer.

J. Russell

DIRECTOR.



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Foundation

008656-008668-0217

Dates of Survey while building { During progress of work in shops - 1945 April 12, 28, 30. May 10. During erection on board vessel - Total No. of visits -

Dates of Examination of principal parts - Cylinders 12. 4. 45. Covers 28 & 30. 4. 45. Pistons 12. 4. 45. Piston rods Connecting rods 12. 4. 45. Crank and Flywheel shafts 12. 4. 45. Intermediate shafts

Crank shaft { Material O.H. Steel Tensile strength Identification Marks LLOYDS J. 2531.B.G. 28. 6. 44. Elongation

Flywheel shaft, Material - Identification Marks

Is this machinery duplicate of a previous case Yes. Identification Marks

Identification marks on Air Receivers -

Hamworthy Centrifugal Pump No. 66830.

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.) THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE ENGINE, WHEN TESTED IN THE SHOP UNDER FULL LOAD CONDITIONS SHEWED SATISFACTORY RESULTS. THE REQUIREMENTS OF NOTICE NO. 18 HAVE, HOWEVER, NOT YET BEEN CARRIED OUT. WHEN THIS HAS BEEN DONE AND APPROVED, THE ENGINE WILL BE IN MY OPINION, BE SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSED WITH THIS SOCIETY FOR THE PURPOSE INTENDED.

COPIES OF CERTIFICATES COVERING GENERATOR AND CENTRIFUGAL PUMP ATTACHED HEREWITH.

Not dealt with for Cir 1803

The amount of Fee ... £ 4 : 4 : 0 When applied for 21. 7. 1945.

Travelling Expenses (if any) £ 0 : 12 : 6 When received 19.

Committee's Minute

GLASGOW

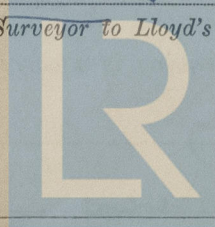
28 DEC 1945

Assigned

See attached machinery report

Whorles

Surveyor to Lloyd's Register of Shipping.



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