

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

COMPRESSOR

No. 13250

Date of writing Report 17th July 1945. When handed in at Local Office 19. Port of MANCHESTER. 23 JUL 1945

No. in Survey held at ALTRINCHAM. Date, First Survey. Last Survey 19. Reg. Book.

Single on the Twin Triple Quadruple Screw vessel. Number of Visits 1301. Tons Gross 890 Net 379.

Built at GLASGOW. By whom built A & J. Inglis Ltd. Yard No. J. 285. When built 1945.

Owners Mow Y (British Tanker Co). Port belonging to Glasgow.

Oil Engines made at ALTRINCHAM. By whom made Russell, Newbery & Co. Ltd. Engine No. 3887. When made 1945.

Generators made at STOCKPORT. By whom made McClure & Whitfield Ltd. Generator No. 10229. When made 1945.

No. of Sets 1. Engine Brake Horse Power 36. Nom. Horse Power as per Rule 10.3. Total Capacity of Generators 18 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/sq. Diameter of cylinders 4 1/2". 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 1/2". 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 as per Rule Approved. as fitted 2 1/2". Crank pin dia. 2 5/8". Crank Webs Mid. length breadth 3 1/2". Thickness parallel to axis. Mid. length thickness 1.5/16". Thickness round eye hole.

Flywheel Shaft, diameter as per Rule. Intermediate Shafts, diameter as per Rule. 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. 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 163 1/2 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 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.

PLANS.—Are approved plans forwarded herewith for Shafting 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. C. Russell  
DIRECTOR.



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Dates of Survey while building { During progress of work in shops - - 1945. April 10, May 3, 5, 10, June 2. During erection on board vessel - - - - - Total No. of visits - - - - -

Dates of Examination of principal parts - Cylinders 10.5.45. Covers 3 & 15.5.45. Piston 10.5.45. Piston rods -

Connecting rods 10.5.45. Crank and Flywheel shafts 10.5.45. Intermediate shafts -

Crank shaft { Material 0. H. Steel. Tensile strength - Identification Marks LLOYD'S 3184. FH.11.1.45. Elongation -

Flywheel shaft, Material - Identification Marks -

Is this machinery duplicate of a previous case - Identification Marks -

Identification marks on Air Receivers -

Hansbury Eng Co. Air Compressor No 64852

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, SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSED WITH THIS SOCIETY FOR THE PURPOSE INTENDED.

Not dealt with for Case 1803.

The amount of Fee ... £ 4 : 4 : 0 When applied for 21. 7. 19 45.

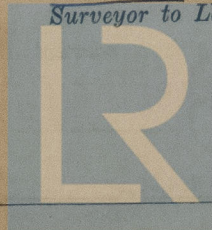
Travelling Expenses (if any) £ 0 : 12 : 6 When received 19

Committee's Minute GLASGOW 2 OCT 1945

Assigned SEE ACCOUNTING MACHINERY REPORT

Enthowles

Surveyor to Lloyd's Register of Shipping.



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