

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 12556

Date of writing Report **23rd May, 1946.** When handed in at Local Office **31st May, 1946.** Port of **MANCHESTER.**

Received at London Office

JUN 1946

25 SEP 1946

No. in Survey held at **ALTRINCHAM.** Date, First Survey **11th March, 1946.** Survey **8th April, 1946.**

Reg. Book.

Single
or the Twin
Triple
Quadruple

Screw vessel.

EMPIRE FEDRITA.Number of Visits **2**Pans Gross **800**Net **370**Built at **GLASGOW.** By whom built **A. & J. INGLIS LTD.** Yard No. **1314P.** When built **1946.**Owners. Port belonging to **Engine**Oil Engines made at **Altrincham.** By whom made **Russell Newbery & Co. Ltd.** ~~XXXX~~ No. **3975.** When made **1946.**Generators made at **Stockport.** By whom made **Mc Clure & Whitfield** ~~XXXX~~ No. **10507.** When madeNo. of Sets **1** Engine Brake Horse Power **18** Nom. Horse Power as per Rule **5.1** Total Capacity of Generators **6½** Kilowatts.OIL ENGINES, &c.—Type of Engines **Vertical, Solid Injection, Heavy Oil** or 4 stroke cycle **4** Single or double acting **Single.**Maximum pressure in cylinders **860 lbs sq. inch.** Diameter of cylinders **4 1/8"** Length of stroke **5"** 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. **22"** Weight **345 lbs.** Means of ignition **Compression** Kind of fuel used **Diesel Oil.**Crank Shaft, dia. of journals **as per Rule. Approved. 2 1/2"** Crank pin dia. **2 3/8"** Crank Webs **Mid. length breadth. 3 1/2"** Thickness parallel to axis **Mid. length thickness. 1 5/16"** Thickness round eyeholeFlywheel Shaft, diameter **as per Rule. as fitted.** Intermediate Shafts, diameter **as per Rule. 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 materialCooling Water Pumps, No. **One-plunger type.** Is the sea suction provided with an efficient strainer which can be cleared within the vesselLubricating 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 spacedor 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 **1st September, 1944** Receivers. Separate TanksSPARE GEAR **AS PER RULE REQUIREMENTS.**The foregoing is a correct description,
per pro. **RUSSELL NEWBERY & Co. Ltd.**

Manufacturer.

DIRECTOR.



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014484-014445-0170

Dates of Survey while building
During progress of work in shops - 1946 March 11. April 8.
During erection on board vessel -
Total No. of visits.

Dates of Examination of principal parts—Cylinders 11.3.46. Covers 11.3.46. Pistons 11.3.46. Piston rods -

Connecting rods 11 3.46. Crank and Flywheel shafts 11th March, 1946. Intermediate shafts

Crank shaft Material O.H. Steel.

Tensile strength

Elongation

Identification Marks LLOYD'S J.2530 GC. 30.6.44.

Flywheel shaft, Material

Identification Marks

Is this machinery duplicate of a previous case Yes

Identification Marks

Identification marks on Air Receivers Generator No. 10507.

Hamworthy Centrifugal Pump No. 69340.

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Manchester Report No. 12436 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 Secretary's letters, approved plans and Rules Requirements. Materials and workmanship are of good quality and the engine, when tested in the shop under full load conditions, showed satisfactory results. In my opinion, this engine is suitable to be placed on board a vessel classed with this Society for the purpose intended.

The Centrifugal pump has been made under British Corporation survey and this fact is noted and approved in Secretary's letter of 3.4.46. The Secretary Glasgow has been advised.

The amount of Fee ... £ 4 : 4 : 0 When applied for 30th May 1946

Travelling Expenses (if any) £ : 6 : 8. When received 19

Committee's Minute

GLASGOW

24 SEP 1946

Assigned

SEE ACCOMPANYING MACHINERY REPORT.

Surveyor to Lloyd's Register of Shipping.

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