

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No 10667.

of writing Report **3. SEPT. 1941** When handed in at Local Office **8. SEPT. 1941** Port of **MANCHESTER**
 in Survey held at **HLTRINCHAM.** Date, First Survey **9. Aug. 1941.** Last Survey **Aug 29th 1941**
 Book. Number of Visits **4.**

Single on the Twin Screw vessel **Wood Transport** Tons { Gross
 Triple Quadruple
 at **PORTUGAL.** By whom built Yard No. When built
 ners **LOCH FISHING CO LD** Port belonging to
 Engines made at **HLTRINCHAM.** By whom made **RUSSELL NEWBERRY & CO LD** ENGINE Contract No. **3630** When made **1941**
 ners made at **CHELMSFORD.** By whom made **CROMPTON PARKINSON LTD.** GENERATOR Contract No. **102A.2809** When made **1941**
 of Sets **ONE.** Engine Brake Horse Power **36.** Nom. Horse Power as per Rule **10.** Total Capacity of Generators **14.5.** Kilowatts.

ENGINES, &c. Type of Engines **VERTICAL SOLID INJECTION.** 2 or 4 stroke cycle **H** Single or double acting **SINGLE**
 Minimum pressure in cylinders **900 LBS/SQ"** Diameter of cylinders **4.125"** Length of stroke **6"** No. of cylinders **4** No. of cranks **4.**
 of bearings, adjacent to the Crank, measured from inner edge to inner edge **4.75"** Is there a bearing between each crank **YES.**
 rotations per minute **1100.** Flywheel dia. **25"** Weight **345. LBS** Means of ignition **COMPRESSION** Kind of fuel used **HEAVY OIL.**
 Crank Shaft, dia. of journals as per Rule **APPROVED** Crank pin dia. **2.375"** Crank Webs Mid. length breadth **3.5"** Thickness parallel to axis **SOLID.**
 as fitted **2.5"** Mid. length thickness **1.516"** Thickness around eye-hole **11/32"**
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners **11/32"**
 as fitted 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.** 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. **ONE** No. of stages **TWO.** Diameters **3.75" & 1.125"** Stroke **3.25** Driven by **AUX. ENGINE**
 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.**
 Pressure of supply **110.** volts. Full Load Current **160** 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 **-** Are all terminals accessible, clearly marked, and furnished with sockets **-**
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched **-** 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 **17.12.41** Receivers **-** Separate Tanks **-**
 (If not, state date of approval)

SHAFTING GEAR **AS PER RULE REQUIREMENTS.**

The foregoing is a correct description,

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

Manufacturer.

J. C. Lawrence
 DIRECTOR



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Dates of Survey while building { During progress of work in shops - - 1941 Aug. 9. 18. 19. 27.
During erection on board vessel - - -
Total No. of visits 4.

Dates of Examination of principal parts—Cylinders 9.8.41. Covers 18.19.8.41. Pistons 9.8.41. Piston rods —
Connecting rods 9.8.41 Crank and Flywheel shafts 9.8.41 Intermediate shafts —
Crank and Flywheel shafts, Material OH. INgot STEEL Identification Marks LLOYDS 146. HTM. 17.5.40.
Intermediate shafts, Material — Identification Marks
Identification marks on Air Receivers

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 SHOP UNDER FULL LOAD CONDITIONS - SHOWN SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

COPY OF CERTIFICATE OF TEST FOR GENERATOR IS ATTACHED.

The amount of Fee ... £ 4 : 4 : 0 When applied for, 8.9.41
Travelling Expenses (if any) £ : 6 : 0 When received, 19

Committee's Minute

assigned

Rpt. 13.

Date of writing

No. in S. Reg. Bo.

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