

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10775.

NOV 1941

Date of writing Report 14. Nov. 1941 When handed in at Local Office 17 Nov. 1941 Port of MANCHESTER
 No. in Survey held at ALTRINCHAM Date, First Survey 17th SEPT. 1941 Last Survey 12 NOVEMBER 1941
 Reg. Book. 5 Number of Visits 5

on the Single Twin Triple Quadruple Screw vessel Wood Trader
 Built at PORTUGAL By whom built _____ Yard No. _____ When built _____
 Owners LOCH FISHING CO Port belonging to _____

Oil Engines made at ALTRINCHAM By whom made RUSSELL NEWBERY & CO LD ENGINE Contract No. 3642 When made 1941
 Generators made at CHELMSFORD By whom made CROMPTON PARKINSON LTD. GENERATOR Contract No. 102 A. 2814 When made 1941
 No. of Sets ONE Engine Brake Horse Power 36 Nom. Horse Power as per Rule 10 Total Capacity of Generators 17.5 Kilowatts.

OIL ENGINES, &c.—Type of Engines VERTICAL SOLID INJECTION. 2 or 4 stroke cycle 4 Single or double acting SINGLE
 Maximum pressure in cylinders 900 LBS/SQ IN Diameter of cylinders 4.125" 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 4.75" 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 HEAVY OIL
 Crank Shaft, dia. of journals as per Rule APPROVED as fitted 2.5" Crank pin dia. 2.375" Crank Webs Mid. length breadth 3.5" Thickness parallel to axis SOLID
 Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners 1/32"
 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 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 efficient when the whole 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 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 M. 12.40 Receivers _____ Separate Tanks _____
 (If not, state date of approval)
SPARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description.

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

[Signature]

DIRECTOR,

Manufacturer.



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W1065 0126

Dates of Survey while building { During progress of work in shops - - } 1941. SEPT. 17. 24. OCT. 23. NOV 6. 12
 { During erection on board vessel - - - } 5
 Total No. of visits

Dates of Examination of principal parts—Cylinders 17.9.41. Covers 23.10.41. Pistons 17.9.41. Piston rods —
 Connecting rods 24.9.41 Crank and Flywheel shafts 17.9.41 Intermediate shafts —
 Crank and Flywheel shafts, Material O.H. STEEL Identification Marks LLOYDS 164 WTM. 4.5.40
 Intermediate shafts, Material — Identification Marks —
 Identification marks on Air Receivers —

Is this machinery duplicate of a previous case Yes. If so, state name of vessel MCH. REPORTS 10277. 10745

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.

101,1137.—Transfer. (MADE IN ENGLAND)
 (The Surveymen are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 4:4:0 } When applied for, 17.11.41
 Travelling Expenses (if any) £ 10:0 } When received, 19.....

M. Riester
 Surveyor Lloyd's Register of Shipping.

Committee's Minute
 Assigned