

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9840

Date of writing Report 21 Dec 1939 When handed in at Local Office 30 Dec 1939 Port of MANCHESTER
 No. in Survey held at ALTRINCHAM Date, First Survey 19-10-39 Last Survey 16 Dec 1939
 Reg. Book. M. V. Ardenvoehr Number of Visits 2

on the Single Screw vessel M. V. Ardenvoehr Tons 5025
Twin Triple Quadruple Net 2929
 Built at N. DENNY & BROS. Yard No. 1347 When built

Owners Port belonging to
 Oil Engines made at ALTRINCHAM By whom made RUSSELL NEWBERRY & Co ENGINE Contract No. 3496 When made 1939
 Generators made at DURSLEY, GLOS. By whom made MANDLEY'S LTD. Contract No. 808/747 When made 1939
 No. of Sets ONE Engine Brake Horse Power 9 Nom. Horse Power as per Rule 2.5 Total Capacity of Generators 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 ONE No. of cranks ONE
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 5/8" Is there a bearing between each crank -
 Revolutions per minute 1000 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 3/8" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis SOLID
as fitted 2 3/8" Mid. length thickness 1 5/16" shrunk Thickness around eye-hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 11/32"
as fitted as fitted
 Is a governor or other arrangement fitted to prevent racing of the engine when detached 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 PLUNGER TYPE 9/16" DIA x 5/8"
 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
 Pressure of supply 110 volts. Full Load Current 45.5 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 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 YES Receivers - Separate Tanks -
 (If not, state date of approval)

SPARE GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description.

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

J. Russell

Manufacturer.



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 Foundation

W161-015

Dates of Survey while building { During progress of work in shops - - } 1939 OCT 19. DEC 16
 { During erection on board vessel - - - }
 Total No. of visits 4.

Dates of Examination of principal parts—Cylinders 19-10-39 Covers 19-10-39 Pistons 19-10-39 Piston rods —
 Connecting rods 19-10-39 Crank and Flywheel shafts 19-10-39 Intermediate shafts —
 Crank and Flywheel shafts, Material O.H. STEEL Identification Marks LLOYDS 9661. GRC. 7739
 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 SHEWED 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 TEST CERTIFICATE FOR GENERATOR IS ATTACHED.

Jan 11, 1937. — Transfer. (MADE IN ENGLAND.)

(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 4 : 0 } When applied for, 19. *Mc*
 Travelling Expenses (if any) £ : 6 : 0 } When received, 20. 19. *msd*

A. Leicester
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned



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