

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10879.

13 FEB 1942

Date of writing Report 1st FEB. 1942 When handed in at Local Office 12 February 1942 Port of MANCHESTER
 No. in Survey held at ALTRINCHAM. Date, First Survey 15th JANUARY 1942 Last Survey 6. FEBRUARY 1942
 Reg. Book. Single on the Twin Triple Quadruple Screw vessel 2511. Tons Gross Net

Built at _____ By whom built _____ Yard No. _____ When built _____
 Owners _____ Port belonging to _____
 Oil Engines made at ALTRINCHAM. By whom made RUSSELL NEWBERRY & CO LTD ENGINES Contract No. 3661-2 When made 1942
 Generators made at _____ By whom made _____ Contract No. _____ When made _____
 No. of Sets Two Engine Brake Horse Power 28 Nom. Horse Power as per Rule 8 Total Capacity of Generators _____ 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 2 EACH No. of cranks 2 EACH
 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 800 Flywheel dia. 22" Weight 220 LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
 Crank Shaft, dia. of journals as per Rule APPROVED 2.5" Crank pin dia. 2.375" Crank Webs Mid. length breadth 3.5" Mid. length thickness 1 5/16" shrunk 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 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 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. _____ 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 _____ volts. Full Load Current _____ Amperes. Direct or Alternating Current _____
 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 _____
 Generators, are they compounded as per rule _____ 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 _____
 If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test _____ and do the results comply with the requirements _____
 If the generators are 100 kw. or over have they been built and tested under survey _____

PLANS. Are approved plans forwarded herewith for Shafting 12.11.41 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. Ltd.

Manufacturer.

DIRECTOR



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Foundation

W322-0143

Dates of Survey while building { During progress of work in shops - - } 1942. JAN 15. 27. 29. FEB 5
 { During erection on board vessel - - - }
 Total No. of visits 4.

Dates of Examination of principal parts—Cylinders 15-1-42. Covers 15-27-1-42. Pistons 27-1-42. Piston rods -
 Connecting rods 15-1-42. Crank and Flywheel shafts 15-1-42. Intermediate shafts -
 Crank and Flywheel shafts, Material O.H. STEEL. Identification Marks Lloyds 839. J.B.G. 11-9-41. (2. OFF)
 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 J2509. MCH. RPT. N° 10816.

General Remarks (State quality of workmanship, opinions as to class, &c.)

THESE ENGINES HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND ARE IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE ENGINES WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWED SATISFACTORY RESULTS. IN MY OPINION THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

DISPATCHED TO C. D. HOLMES. HULL.

These Engines have been fitted with valve pumps on its portable seatings, arranged for lifting on board damaged vessels. and have been dispatched to 1. Bases as directed by the Admiralty for use as required by the "Rescue" tugs.

[Signature]
Hull.

The amount of Fee ... £ 8 : 8 : 0 } When applied for, 12.2.1942 *ML*
 Travelling Expenses (if any) £ 12 : 0 } When received, 19.....

Committee's Minute

Assigned

FRI. 17 APR 1942

See Hull J.E. 51570

[Signature]
Surveyor to Lloyd's Register of Shipping.



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