

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10816

Date of writing Report 27 Nov. 1941 When handed in at Local Office 8 Dec 1941 Port of MANCHESTER  
 No. in Survey held at ALTRINCHAM. Date, First Survey 29<sup>th</sup> SEPT. 1941 Last Survey 22<sup>nd</sup> Nov. 1941  
 Reg. Book. ADEPT Number of Visits 3

on the Single Screw vessel ADEPT J. 2509 - "ADEPT" Tons 3645  
 {Twin  
 {Triple  
 {Quadruple

Built at \_\_\_\_\_ By whom built C. D. Holmes Hull Yard No. \_\_\_\_\_ When built \_\_\_\_\_  
 Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

Oil Engines made at ALTRINCHAM. By whom made RUSSELL NEWBERRY & CO. LD. ENGINES Contract No. 3645 When made 1941  
 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 ENGINE. No. of cranks 2 EACH ENGINE.  
 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 as fitted 2.5" Crank pin dia. 2.375" Crank Webs Mid. length breadth 3.5" Thickness parallel to axis SOLID  
 as fitted \_\_\_\_\_ Mid. length thickness 1 5/16" shrunk Thickness around eyehole \_\_\_\_\_  
 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 efficient when the whole 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.**

J. Russell  
 DIRECTOR

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 1941 SEPT. 29. NOV 20 22.  
 { During erection on board vessel - - - }  
 { Total No. of visits } 2

Dates of Examination of principal parts—Cylinders 29-10-41 Covers 29-10-41 Pistons 29-10-41 Piston rods -  
 Connecting rods 29-10-41 Crank and Flywheel shafts 29-10-41 Intermediate shafts -  
 Crank and Flywheel shafts, Material 04 STEEL Identification Marks LLOYDS 840 JBG 11-9-41  
 Identification Marks 841 JBG 11-9-41  
 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.)  
 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 SHewed SATISFACTORY RESULTS. IN MY OPINION THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

This two Engines are for portable Salvage plants. They have been coupled to Salvage pumps & are being dispatched to a Naval base for use with any one of the tugs of this class.

Dijkster  
 Hull. 28.12.41

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Im. 11.37.—Transfer. (MADE IN SCOTLAND.)  
 (The Surveys are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 8 : 8 : 0 } When applied for, 10.12.1941  
 Travelling Expenses (if any) £ : 2 : 0 } When received, 19.....

*Dijkster*  
 Surveyor to Lloyd's Register of Shipping.

TUE 24 MAR 1942

Committee's Minute  
 Assigned

See Hull J.C. 51541



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