

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11,153

Received at London Office 7 SEP 1942 5 OCT 1942

of writing Report 31.8.1942 When handed in at Local Office 3.9.1942 Port of MANCHESTER.

Survey held at ALTRINCHAM Date, First Survey 15th Aug. 1942 Last Survey 31st Aug. 1942. Number of Visits 4.

on the Twin Triple Quadruple Screw vessel ADMIRALTY "DEXTEROUS" J.2517 Dexteros Tons Gross 601 Net 3

built at HULL By whom built G. D. Holmes Ltd., Yard No. 1619 When built 1942

owners The Admiralty Port belonging to

Engines made at ALTRINCHAM By whom made Russell Newbery & Co. Engine No. 3704-5 When made 1942

Generators made at - By whom made - Contract No. - When made -

of Sets Two Engine Brake Horse Power 28 Nom. Horse Power as per Rule 8 Total Capacity of Generators - Kilowatts.

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" Diameter of cylinders 4.125" Length of stroke 6" No. of cylinders 2 each engine No. of cranks 2 each engine.

Distance 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. Mid. length thickness 1.5/16" shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 11/32" as fitted

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 -

Evacuating 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 -

SPARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description, per pro. RUSSELL, NEWBERY & Co. Ltd

J. Russell DIRECTOR

Manufacturer.



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011912-011926-0015

14/8/42

Dates of Survey while building  
 During progress of work in shops - August 15th, 25th, 28th, 31st, 1942.  
 During erection on board vessel - - -  
 Total No. of visits Four.

Dates of Examination of principal parts—Cylinders 15.8.42. Covers 25.8.42. Pistons 25.8.42. Piston rods -  
 Connecting rods 15th Aug. 1942. Crank and Flywheel shafts 15th Aug. 1942. Intermediate shafts -  
 Crank and Flywheel shafts, Material O.H. Ingot Steel. Identification Marks LLOYD'S 911 ELK. LLOYD'S 999 ELK.  
 Intermediate shafts, Material - Identification Marks 20.11.41. 29.1.42  
 Identification marks on Air Receivers -

Is this machinery duplicate of a previous case Yes. If so, state name of vessel J.2513. Manchester Report No. 11

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.

DESPATCHED TO - C. D. HOLMES, HULL.

The above engines have been fitted on board H.M. Rescue tug DENTEROUS at Hull. W S Shields  
 23.9.42

1 m. 5. 37. - Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 8 : 8 : 0 When applied for, 3.9.42 m  
 Travelling Expenses (if any) £ - 10 : 0 When received, 19

FRI. 6 NOV 1942

Committee's Minute  
 Assigned

See Hull J.E. 51768

*W S Shields*  
 Surveyor to Lloyd's Register of Shipping.