

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Date of writing Report **12. 2. 44** when handed in at Local Office **18. 2. 44** Port of **MANCHESTER.** Received at London Office **23 FEB 1944**
 No. in Survey held at **ALTRINCHAM.** Date, First Survey **7. 10. 43** Last Survey **2. 2. 44.**
 Reg. Book: **PR 1944** on the **Single** Screw vessel **MEDIATOR** Number of Visits **Six.**

Built at **HULL.** By whom built **C. D. Holmes & Co.** Yard No. **J.2533/5/7.** When built
 Owners **Port belonging to**

Oil Engines made at **ALTRINCHAM.** By whom made **Russell Newbery & Co.** Engine **3842**
 Generators made at **By whom made** **xxxxxx** Nos. **3843** When made
 Contract No. **When made**

No. of Sets **2** Engine Brake Horse Power **14** Nom. Horse Power as per Rule **4** Total Capacity of Generators **-** Kilowatts

DIE ENGINES, &c.—Type of Engines **Vertical Solid Injection** 2 or 4 stroke cycle **4** Single or double acting **Single.**
 Maximum pressure in cylinders **860 lbs/sq"** Diameter of cylinders **4 1/2"** Length of stroke **6"** No. of cylinders **2** No. of cranks **2**
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **5 1/2"** 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 **Diesel Oil.**
 as per Rule **Approved.** Crank pin dia. **2 3/8"** Crank Webs Mid. length breadth **3 1/2"** Thickness parallel to axis **-**
 Crank Shaft, dia. of journals as fitted **2 1/2"** Mid. length thickness **1.5/16"** Thickness around eyebolt **-**
 Flywheel Shaft, diameter as per Rule **-** Intermediate Shafts, diameter as per Rule **-** Thickness of cylinder liners **11/32"**
 as fitted **-** 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 - Centrifugal** 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**
 Suckering 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**
 of 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**
 Excitation 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 **2.10.42.** Receivers **Separate Tanks**
 (If not, state date of approval)

SPARE GEAR STANDARD SPARES ONLY.

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

Chussey
 DIRECTOR

Manufacturer.



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Apr 10 1943

(During progress of work in shops - - (During erection on board vessel - - - Total No. of visits)	1943.	7.10.43.	1.11.43.	1944.	12.1.44.	13.1.44.	31.1.44.	2.2.44.
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Examination of principal parts—Cylinders	12.1.44	Covers	13.1.44.	Pistons	12.1.44.	Piston rods	-
Connecting rods	12.1.44.	Crank and Flywheel shafts	13.1.44.	Intermediate shafts	-		
Crank and Flywheel shafts, Material	O. H. STEEL.	Identification Marks	Eng.3842.	LLOYD'S 1841.	7.10.43.FH.		
Intermediate shafts, Material	-	Identification Marks	Eng.3843.	LLOYD'S 2156.	1.11.43.FH.		
Identification marks on Air Receivers	-						

This machinery duplicate of a previous case **Yes** If so, state name of vessel **Manchester Report No. 11,563.**

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 GOOD AND THE ENGINES, WHEN TESTED IN SHOP UNDER ALL 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.**

"pump fitted to Engine No 3842 and dispatched by Messrs D. Holmes to HMS 'mediator' W. J. Shiles. Hull.

"pump fitted to Engine No 3843 and dispatched by Messrs D. Holmes to R.M. Rescue tug 'Sesame' - Hull. Rpt No. 52310 W.S.S. 4.2.43

Amount of Fee £	:	:	When applied for,
			19.....
Travelling Expenses (if any) £	:	:	When received,
			19.....

W. J. Shiles
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Signed



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