

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11,753.

Date of writing Report 12. 2. 1944, when handed in at Local Office 18. 2. 1944 Port of MANCHESTER.
 No. in Survey held at ALTRINCHAM. Date, First Survey 7. 10. 43 Last Survey 2. 2. 1944.
 Reg. Book: Number of Visits 512.

Single on the Twin Screw vessel
 Built at HULL. By whom built C. D. Holmes & Co. J.2533/5/
 Yard No. 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 -
 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 -

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
 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
 Is an 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
 Is there a 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)
 GEAR STANDARD SPARES ONLY.

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

Manufacturer.

DIRECTOR



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Ref 1150/63

{	During progress of work in shops - -	1943.	7.10.43.	1.11.43.	1944.	12.1.44.	13.1.44.	31.1.44.	2.2.44.
	During erection on board vessel - -								
	Total No. of visits								

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.		
			Eng.3843.	LLOYD'S 2156.	1.11.43.FH.		
Intermediate shafts, Material	-	Identification Marks					-
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 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.**

"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 Mr. Rescue Ding 'Sesame' - Hull. Rpt No. 52310 W. J. Shiles.

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

Committee's Minute
Signed

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



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