

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11562

Received at London Office

20 JUL 1943

Date of writing Report 19 When handed in at Local Office 19 Port of MANCHESTER.

No. in Survey held at Altrincham Date, First Survey 8.6.43. Last Survey 26.6. 19 43  
Reg. Book. Number of Visits 3

on the Single Twin Triple Screw vessel Antic. Tons { Gross Net

Built at SELBY By whom built Cochrane and Sons Ltd Yard No. J.2529/31 1263/4 When built 1943

Engines made at Altrincham By whom made Russell Newbery & Co. Engine No. 3777 When made

Generators made at By whom made Contract No. When made

No. of Sets 1 Engine Brake Horse Power 14 Nom. Horse Power as per Rule 4 Total Capacity of Generators Kilowatts.

Vertical Solid Injection Heavy Oil 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 860 lbs/sq in. Diameter of cylinders 4 1/8" 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 1/8" 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

Crank Shaft, dia. of journals 2 1/2" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis -

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 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

Exhausting 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

Are 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

Are the generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

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

Do the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

Do the generators are 100 kw. or over have they been built and tested under survey

ANS. Are approved plans forwarded herewith for Shafting 2.10.42 Receivers Separate Tanks

ARE GEAR AS PER RULE REQUIREMENTS.

The above engine with salvage pump attached supplied to  
H.M. Rescu Ing Antic. W.S. Shields Hull

The foregoing is a correct description,

per pro. RUSSELL NEWBERY & Co. Ltd.

J. Lawrence

DIRECTOR

Manufacturer.



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007396-007402-0233

Dates of Survey while building { During progress of work in shops - - } 1943. June 8th, 9th and 26th.  
 { During erection on board vessel - - - }  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 8.6.43. Covers 9.6.43. Pistons 8.6.43. Piston rods -  
 Connecting rods 8.6.43. Crank and Flywheel shafts 8.6.43. Intermediate shafts -  
 Crank and Flywheel shafts, Material O.H. Steel Identification Marks LLOYDS 1552 FH 17.12.42.  
 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. THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE GOOD AND THE ENGINE, WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHEWED SATISFACTORY RESULTS. IN MY OPINION, THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

Im. 438.—Transfer. (MADRS AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 4 : 0 When applied for, 27/7/43  
 Travelling Expenses (if any) £ : 10 : 0 When received, 19.....

*E. Knowles*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 17 AUG 1943  
 Assigned. see minute on Hull H. Rpt.