

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11,429.

Date of writing Report **31. 3. 1943** When handed in at Local Office **3. 4. 1943** Port of **MANCHESTER.**
 No. in Survey held at **ALTRINCHAM.** Date, First Survey **8.3.43.** Last Survey **23. 3. 19 43.**
 Reg. Book. **Single** on the **Twin** **Triple** **Quadruple** Screw vessel **HM. Ream Tug. 'ALLEGIANCE'** Tons **Gross** **Net**
 Built at **HULL.** By whom built **C.D. Holmes & Co. Ltd.** Yard No. **J.2525 & 2527.** When built
 Owners Port belonging to **Engine**
 Oil Engines made at **ALTRINCHAM.** By whom made **Russell Newbery & Co.** **Contract** No. **3752.** When made **1943.**
 Generators made at **-** By whom made **-** Contract No. **-** When made **-**
 No. of Sets **One.** Engine Brake Horse Power **14** Nom. Horse Power as per Rule **4** Total Capacity of Generators **-** Kilowatts.

IL 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 1/8"** 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"** as per Rule **Approved.** Crank pin dia. **2 3/8"** Crank Webs **3 1/2"** Mid. length breadth **3 1/2"** Thickness parallel to axis **shrink**
 as fitted **2 1/2"** Mid. length thickness **1.5/16"** Thickness around eyehole **shrink**
 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** 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 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

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 **26.9.42.**

Receivers

Separate Tanks

SHAFTING. AS PER RULE REQUIREMENTS.

[Above Auxiliary Oil Engine with attached 5" pump fitted on board
 in accordance with Admiralty Specification,
 as Hull]

The foregoing is a correct description,

per pro. RUSSELL, NEWBERY & Co. Ltd.

Manufacturer.

DIRECTOR.



© 2020

Lloyd's Register
Foundation

004824-004832-0088

Dates of Survey while building { During progress of work in shops - - 8.3.43, 17.3.43, 18.3.43 and 23.3.43.
During erection on board vessel - - -
Total No. of visits Four.

Dates of Examination of principal parts—Cylinders 8.3.43. Covers 17 & 18.3.43. Pistons 8.3.43. Piston rods -
Connecting rods 8.3.43. Crank and Flywheel shafts 8.3.43. Intermediate shafts -
Crank and Flywheel shafts, Material O.H. Steel. Identification Marks LLOYD'S 1650 FH, 28.1.43.
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 MATERIAL AND WORKMANSHIP IS GOOD AND THE ENGINE WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHEWED SATISFACTORY RESULTS. IN MY OPINION, THE ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

Work on engine found to be satisfactory & engine was accepted for service in vessel
W. H. Knowles
Secretary

The amount of Fee ... £ 4 : 4 0 When applied for, 31.3.19 43.
Travelling Expenses (if any) £ - : 10 0 When received, 19.....

W. H. Knowles
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned

FRI. 18 JUN 1943

See minute on
Sub 52030



© 2020

Lloyd's Register
Foundation