

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10666.

of writing Report 3 SEPT. 1941 When handed in at Local Office 8 SEPT. 1941 Port of MANCHESTER.
 in Survey held at ALTRINCHAM. Date, First Survey 9 AUG. 1941 Last Survey 29 AUG. 1941
 Book. Number of Visits 3

Rules 3/8" on the Single Screw vessel Wood Trawler. Tons Gross
300 lbs Triple Quadruple Yard No. When built

at PORTUGAL By whom built LOCH FISHING CO LD. Port belonging to
 Engines made at ALTRINCHAM. By whom made RUSSELL NEWBERRY & CO LD ENGINE No. 3629 When made 1941
 Generators made at CHELMSFORD. By whom made CRUMPTON PARKINSON LD. GENERATOR No. 102A 28/2 When made 1941
 of Sets ONE. Engine Brake Horse Power 36. Nom. Horse Power as per Rule 10. Total Capacity of Generators 17.5. 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 4 No. of cranks 4
 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 1000 Flywheel dia. 25" Weight 345 lbs. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL.
 Crank Shaft, dia. of journals as per Rule APPROVED. 2.5" Crank pin dia. 2.375" Crank Webs Mid. length breadth 3.5" Mid. length thickness 1.56" Thickness parallel to axis SOLID
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 11/32"

Is there 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. ONE. No. of stages TWO. Diameters 3.75" & 1.125" Stroke 3.25" Driven by AUT. ENGINE.
 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

COMPOUND.

Pressure of supply 110. volts.

Full Load Current

160.

Amperes.

Direct or Alternating Current

DIRECT

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 YES.

Generators, are they compounded as per rule

YES

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 YES

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test

YES

and do the results comply with the requirements YES

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

PLANS. Are approved plans forwarded herewith for Shafting

(If not, state date of approval)

17.12.41

Receivers

-

Separate Tanks

-

SHAFTING

As per Rule Requirements.

The foregoing is a correct description,

per pro. **RUSSELL, NEWBERRY & Co. Ltd.**

Manufacturer.

DIRECTOR.



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Dates of Survey while building { During progress of work in shops - - -
During erection on board vessel - - -
Total No. of visits

1941. Aug. 9. 18. 29.

3

Dates of Examination of principal parts—Cylinders 9.8.41

Covers 18.8.41

Pistons 9.8.41

Piston rods —

Connecting rods 9.8.41

Crank and Flywheel shafts

9.8.41

Intermediate shafts —

Crank and Flywheel shafts, Material OH INSET STEEL

Identification Marks LLOYDS. 146. WTM. 14.S. 40

Intermediate shafts, Material

Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case . / 18.

If so, state name of vessel

MCH RPT. NO 10667.

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 OF A GOOD QUALITY 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. COPY OF TEST CERTIFICATE FOR GENERATOR IS ATTACHED.

The amount of Fee ... £

4 : 4 : 0

When applied for,

8.9.41 M.

Travelling Expenses (if any) £

6 : 0

When received,

19

Committee's Minute

Assigned

J. Maister
Surveyor to Lloyd's Register of Shipping.



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