

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10775.

Date of writing Report 14. Nov. 1941 When handed in at Local Office 17 Nov. 41 Port of MANCHESTER  
 No. in Survey held at 5. ALTRINCHAM Date, First Survey 17<sup>th</sup> SEPT. 1941 Last Survey 12 NOVEMBER 1941  
 Reg. Book. Number of Visits 5

Single on the Twin Screw vessel Wood Trader  
 Triple  
 Quadruple  
 Built at PORTUGAL By whom built Yard No. When built  
 Owners LOCH FISHING CO Port belonging to  
 Oil Engines made at ALTRINCHAM By whom made RUSSELL NEWBERRY & CO. LTD. ENGINE Contract No. 3642 When made 1941  
 Generators made at CHELMSFORD By whom made CROMPTON PARKINSON LTD. GENERATOR Contract No. 102 A. 28/4 When made 1941  
 No. of Sets ONE Engine Brake Horse Power 36 Nom. Horse Power as per Rule 10 Total Capacity of Generators 17.5 Kilowatts.

OIL 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 in Diameter of cylinders 4.125" Length of stroke 6" No. of cylinders 4 No. of cranks 4  
 Span 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. 22" Weight 345 lbs. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL  
 as per Rule APPROVED  
 Crank Shaft, dia. of journals as fitted 2.5" Crank pin dia. 2.375" Crank Webs Mid. length breadth 3.5" Thickness parallel to axis SOLID  
 as fitted 2.5" Mid. length thickness 1 3/16" shrunk Thickness around eye-hole SOLID  
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 1/32"  
 as fitted Thickness around eye-hole 1/32"  
 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 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 AUX 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 efficient when the whole 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

M. 12.40

Receivers

Separate Tanks

SPARE GEAR

AS PER RULE REQUIREMENTS.

The foregoing is a correct description.

per pro. RUSSELL, NEWBERRY &amp; Co. Ltd.

Manufacturer.

DIRECTOR,



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Lloyd's Register  
Foundation  
W1065-0126



Dates of Survey while building { During progress of work in shops - - } 1941. SEPT. 17. 24. OCT. 23. NOV 6. 12  
{ During erection on board vessel - - - } 5  
Total No. of visits

Dates of Examination of principal parts—Cylinders 17.9.41. Covers 23.10.41. Pistons 17.9.41. Piston rods —  
Connecting rods 24.9.41. Crank and Flywheel shafts 17.9.41. Intermediate shafts —  
Crank and Flywheel shafts, Material O.H. STEEL. Identification Marks LLOYDS 164 WTM. 4.5.40.  
Intermediate shafts, Material — Identification Marks —  
Identification marks on Air Receivers —

Is this machinery duplicate of a previous case ☒ Yes. If so, state name of vessel MCH. REPORTS 10747. 10745.

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 SHOWN 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 CERTIFICATE OF TEST FOR GENERATOR IS ATTACHED.

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MIDS  
COLL  
AFTE  
STE

1m.11.37.—Transfer. (MADE IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 44:00 } When applied for, 17.11.41  
Travelling Expenses (if any) £ 10:00 } When received, 19.....

*Meister*  
Surveyor Lloyd's Register of Shipping.