

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10759.

Date of writing Report 2. Nov. 1941 When handed in at Local Office 2. Nov. 1941 Port of MANCHESTER  
 No. in Survey held at ALTRINCHAM Date, First Survey 17. SEPT. 1941 Last Survey 31 OCT 1941  
 Reg. Book. WOOD TRAWLER Number of Visits 3

PPD. 5.5.3  
 00 LB. V

2.41  
 4.41

Single on the Twin Screw vessel WOOD TRAWLER  
 Built at PORTUGAL By whom built RUSSELL NEWBERRY & CO. LTD. Yard No. 3641 When built 1941  
 Owners LOCH FISHING CO. Port belonging to ALTRINCHAM  
 Oil Engines made at ALTRINCHAM By whom made RUSSELL NEWBERRY & CO. LTD. Engine Contract No. 3641 When made 1941  
 Generators made at CHELMSFORD By whom made CROMPTON PARKINSON LTD Engine Contract No. 102A2813 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  
 Crank Shaft, dia. of journals as per Rule APPROVED as fitted 2.5" Crank pin dia. 2.375" Mid. length breadth 3.5" Thickness parallel to axis SOLID  
 as fitted 2.5" Crank Webs Mid. length thickness 1 5/16" Thickness around eye hole SOLID  
 Flywheel Shaft, diameter as per Rule APPROVED as fitted 2.5" Intermediate Shafts, diameter as per Rule APPROVED as fitted 2.5" 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 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 AVY. ENGINE  
 Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

AIR RECEIVERS:—Have they been made under Survey YES State No. of Report or Certificate -  
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule YES  
 Can the internal surfaces of the receivers be examined YES What means are provided for cleaning their inner surfaces -  
 Is there a drain arrangement fitted at the lowest part of each receiver YES  
 High Pressure Air Receivers, No. ONE Cubic capacity of each 100 Internal diameter 10" thickness 1/2"  
 Seamless, lap welded or riveted longitudinal joint YES Material STEEL Range of tensile strength 45,000 Working pressure by Rules 100  
 Starting Air Receivers, No. ONE Total cubic capacity 100 Internal diameter 10" thickness 1/2"  
 Seamless, lap welded or riveted longitudinal joint YES Material STEEL Range of tensile strength 45,000 Working pressure by Rules 100  
 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 50 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 YES  
 Are all terminals accessible, clearly marked, and furnished with sockets YES  
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES 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 YES

PLANS. Are approved plans forwarded herewith for Shafting YES (If not, state date of approval) 17.12.40 Receivers - Separate Tanks -

SHAFTING. Are approved plans forwarded herewith for Shafting YES (If not, state date of approval) 17.12.40 Receivers - Separate Tanks -

Shipping.

The foregoing is a correct description,

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

Manufacturer.

J. C. Russell

DIRECTOR.



© 2019

Lloyd's Register  
Foundation

W1065-0125



Dates of Survey while building { During progress of work in shops - - 1941. SEPT 17. OCT 17. 31.  
During erection on board vessel - - -  
Total No. of visits 3.

Dates of Examination of principal parts—Cylinders 17.9.41 Covers 17.10.41 Pistons 17.9.41 Piston rods —  
Connecting rods 17.9.41 Crank and Flywheel shafts 17.9.41 Intermediate shafts —  
Crank and Flywheel shafts, Material O. H. STEEL Identification Marks LLOYDS STM. N° 170. 17.5.40  
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. 10717. 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 SHOWED 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.

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

The amount of Fee ... £ 4 : 4 : 0 When applied for, 12 Nov. 1941  
Travelling Expenses (if any) £ : 6 : 0 When received, 19.....

Committee's Minute  
Assigned

*P. Ricotta*  
Surveyor to Lloyd's Register of Shipping.