

Newcastle-on-Tyne

No. 98976

pt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10,053.

Date of writing Report 15<sup>th</sup> JUNE 1940 When handed in at Local Office 22<sup>nd</sup> JUNE 1940 Port of MANCHESTER Received at London Office JUN 24 1940  
No. in Survey held at ALTRINCHAM Date, First Survey 18<sup>th</sup> MAR. 1940 Last Survey 13<sup>th</sup> JUNE 1940  
Reg. Book. Single on the Twin Triple Quadruple Screw vessel SS. Richmond Hill Tons { Gross Net  
Built at SUNDERLAND By whom built BARTRAM & SONS Yard No. 284 When built  
Owners RETHYMNIS & KULUKUNDIS Port belonging to  
Oil Engines made at ALTRINCHAM By whom made RUSSELL NEWBERRY & CO. LTD. ENGINE Contract No. 3531. When made 1940  
Generators made at STOCKPORT By whom made MCCLURE & WHITFIELD GENERATOR Contract No. 9056. When made 1940  
No. of Sets ONE Engine Brake Horse Power 16 Nom. Horse Power as per Rule 4.5 Total Capacity of Generators 9. 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 850. lbs/sq. in. Diameter of cylinders 4.125" 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 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 1/2" Crank pin dia. 2 3/8" Mid. length breadth 3 1/4" Thickness parallel to axis SOLID.  
as fitted 2 1/2" Crank Webs 1 5/16" shrunk Mid. length thickness 1 5/16" Thickness around eyehole 1 1/32"  
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 1 1/32"  
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.  
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 110. volts. Full Load Current 82. 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 YES.

PLANS. Are approved plans forwarded herewith for Shafting 27<sup>th</sup> Oct. 1939. Receivers — Separate Tanks —SHAFTING. Are approved plans forwarded herewith for Shafting 27<sup>th</sup> Oct. 1939. Receivers — Separate Tanks —SHAFTING. Are approved plans forwarded herewith for Shafting 27<sup>th</sup> Oct. 1939. Receivers — Separate Tanks —The foregoing is a correct description.  
per pro. RUSSELL, NEWBERRY & Co. Ltd.

J. C. Russell

DIRECTOR.

Manufacturer.



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008279 - 008287 - 0095



Dates of Survey while building { During progress of work in shops - - } 1940 MAR. 18 JUNE 13.  
{ During erection on board vessel - - - }  
Total No. of visits 2

Dates of Examination of principal parts—Cylinders 18.3.40 Covers 18.3.40 Pistons 18.3.40 Piston rods —

Connecting rods 18.3.40 Crank and Flywheel shafts 18.3.40 Intermediate shafts —

Crank and Flywheel shafts, Material OH STEEL Identification Marks LLOYD'S 9785 NTH. 20.10.39

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers —

Is this machinery duplicate of a previous case ☒ If so, state name of vessel MCH LPT. 10032.

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.

The amount of Fee ... £ 4 : 4 : 0

Travelling Expenses (if any) £ 6 : 0

FRI. 18 DEC 1940

Committee's Minute

Assigned

See Mtd. J.C. 33009

*J. P. M. M. M.*  
Surveyor to Lloyd's Register of Shipping.



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