

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10,032.

JUN 11 1940

Date of writing Report 29th MAY 40. When handed in at Local Office 8th JUNE 1940 Port of MANCHESTER.
No. in Survey held at ALTRINCHAM. Date, First Survey 15-3-1940 Last Survey 25th MAY 1940.
Reg. Book. Number of Visits 2

Single on the Twin Triple Quadruple Screw vessel
Built at PORT GLASGOW. By whom built W. HAMILTON & CO. Yard No. 440. When built
Owners RETHYMNIS & KULUKUNDIS LTD. Port belonging to
Oil Engines made at ALTRINCHAM. By whom made RUSSELL NEWBERRY LTD. Contract No. 3526 When made 1940
Generators made at STOCKPORT. By whom made M. CLURE & WHITEFIELD. Contract No. 9055 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.

OIL 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" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis SOLID
as fitted 2 1/2" Mid. length thickness 1 5/16" shrunk Thickness around eyehole 1 1/32"
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners
as fitted 1 1/2" as fitted 1 1/2" as fitted 1 1/2"
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 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

PLANS. Are approved plans forwarded herewith for Shafting 27th OCT 1939 Receivers — Separate Tanks —
(If not, state date of approval)

SPARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description.

per pro. RUSSELL, NEWBERRY & Co. Ltd.

Manufacturer.



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W192-0021

Dates of Survey while building { During progress of work in shops - - } 1940 . MARCH . 18 . MAY 25
{ 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 INGT STEEL Identification Marks LLOYDS 9785. WTH. 20.10.39

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers —

Is this machinery duplicate of a previous case /ES If so, state name of vessel MCH REPORT NO 9908

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, 8.6.1940

Travelling Expenses (if any) £ : 6 : 0 When received, 12th Aug. 1940

Committee's Minute

Assigned

See file JE.62642

P. Leicester
Surveyor to Lloyd's Register of Shipping.



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Foundation

Rpt. 13.

Date of writing

No. in Reg. B

88903

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