

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9908

Received at London Office 6 FEB 1940

of writing Report 23-2-1940. When handed in at Local Office 2-3-1940 Port of MANCHESTER.

in Survey held at ALTRINCHAM. Date, First Survey 16-1-1940 Last Survey 17 FEB 1940

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel *SS. Marietta E.* Tons ^{Gross} ~~Net~~

By whom built *RETHYMNIS & KULUKUNDIS LTD* Yard No. When built

Engines made at ALTRINCHAM. By whom made RUSSELL NEWBERY & LTD. Contract No. 3507 When made 1940.

Generators made at STOCKPORT By whom made M'CLURE & WHITFIELD Contract No. 9054 When made 1940.

of Sets ONE Engine Brake Horse Power 16 Nom. Horse Power as per Rule 4.6. Total Capacity of Generators 9. Kilowatts.

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 TWO

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 as fitted 2 1/2" Crank pin dia. 2 3/8" Mid. length breadth 3 1/4" Thickness parallel to axis SOLID

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted 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

Compressors, No. No. of stages Diameters Stroke Driven by

Revolving Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey State No. of Report or Certificate

each receiver, which can be isolated, fitted with a safety valve as per Rule

Are 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

Material Range of tensile strength Working pressure by Rules

Low Pressure Air Receivers, No. Total cubic capacity Internal diameter thickness

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

Is the 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

Are the generators, are they compounded as per rule YES Is an adjustable regulating resistance fitted in series with each

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

Do 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

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

ANS. Are approved plans forwarded herewith for Shafting 27 Oct. 1939 Receivers Separate Tanks

ARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description, per pro. RUSSELL, NEWBERY & Co. Ltd.

J. O. Russell
DIRECTOR

Manufacturer.



© 2019

Lloyd's Register Foundation

W192-0116

Dates of Survey while building { During progress of work in shops - - } 1940 JAN 16. FEB 17
 { During erection on board vessel - - - }
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 16-1-40 Covers 16-1-40 Pistons 16-1-40 Piston rods —
 Connecting rods 16-1-40 Crank and Flywheel shafts 16-1-40 Intermediate shafts —
 Crank and Flywheel shafts, Material OH STEEL. Identification Marks LLOYDS 9560, GRC. 21-3.
 Intermediate shafts, Material — Identification Marks —
 Identification marks on Air Receivers —

Is this machinery duplicate of a previous case — If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c.)

THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TEST MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTER 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 OUR 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, 2-3-1940 M.
 Travelling Expenses (if any) £ 6:0 When received, 19

Reicester & Knowles
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Not for Classing Committee



© 2019

Lloyd's Register Foundation