

RECEIVED

8 APR 1947

Rpt. 4c.

IN D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12845

Date of writing Report 11th March 47 When handed in at Local Office 31st March, 1947 Port of MANCHESTER
 Received at London Office 1 - APR 1947
 No. in Survey held at Altrincham Date, First Survey 6th December, 1946 Last Survey 20th March, 1947
 Reg. Book. Single on the Twin Screw vessel. Argus Tons Gross 7 Net 7
 Built at Glasgow By whom built J. Charters Ferguson Bros. Yard No. 381 When built 1947
 Owners Corporation of Trinity House Port belonging to LONDON
 Oil Engines made at Altrincham By whom made Russell Newbery & Co. Ltd. Engine No. 4069 When made 1947
 Generators made at Manchester By whom made Laurence Scott & Electromotors Generator No. 149126 When made 1947
 No. of Sets 1 Engine Brake Horse Power 18 Nom. Horse Power as per Rule 4.5 Total Capacity of Generators 10 Kilowatts.

OIL ENGINES, &c.—Type of Engines Vertical Airless Injection Heavy Oil or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 360 lbs per sq. inch. Diameter of cylinders 4 1/8" 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 5/8" 5/8" Is there a bearing between each crank Yes
 Revolutions per minute 1,000 Flywheel dia. 25" Weight 345 lbs. Means of ignition Compression Kind of fuel used Diesel Oil
 Crank Shaft, dia. of journals 2 1/2" as per Rule Approved Crank pin dia. 2 3/8" Crank Webs 3 1/2" Mid. length breadth 1 5/16" Thickness parallel to axis -
 as fitted - Mid. length thickness 1 5/16" Thickness round eye hole -
 Flywheel Shaft, diameter - as per Rule - Intermediate Shafts, diameter - as fitted - 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. 2 - Centrifugal Type 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. - 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 Compound Wound Continuous Rating
 Pressure of supply 220 volts. Full Load Current 45 Amperes. Direct or Alternating Current Direct Current
 If alternating current system, state the periodicity - 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 -

PLANS.—Are approved plans forwarded herewith for Shafting Approved 17.12.45 Receivers - Separate Tanks 26.11.46
 (If not, state date of approval)
 SPARE GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description,

FOR MR. RUSSELL, NEWBURY & Co. Ltd.

Manufacturer.

DIRECTOR.



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007731-007738-0208

Dates of Survey while building { During progress of work in shops - - 1945 Dec. 6. 1946 Nov. 13, 14, 15 1947. Feb. 24. Mar. 12, 20.
During erection on board vessel - - -
Total No. of visits.....

Dates of Examination of principal parts—Cylinders 13.11.46. Covers 15.11.46. Pistons 14.11.46. Piston rods -

Connecting rods 14.11.46. Crank ~~rod~~ shafts 6.12.45. Intermediate shafts -

Crank shaft { Material O.H. Steel. Tensile strength 44. Tons per sq. inch.
Elongation 25% Identification Marks LLOYD'S 3546 6.12.45. J.W.

Flywheel shaft, Material - Identification Marks -

Is this machinery duplicate of a previous case - Identification Marks -

Identification marks on Air Receivers -

Is this machinery duplicate of a previous case No. - 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 selected 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 the 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.

This engine has been efficiently installed in the vessel & tested under full working conditions with satisfactory results. Please see Greenock report N° 23608 for recommendations.

Charles F. Hunter

24/1/48

The amount of Fee ... £ 4 : 0 : 0

Travelling Expenses (if any) £ 1 : 7 : 0

When applied for 31.3.1947

When received 19

Committee's Minute

Assigned

SEE ACCOMPANYING MACHINERY REPORT.

GLASGOW 23 FEB 1948

R. J. Johnston for Elk Knowles & Self
Surveyor to Lloyd's Register of Shipping.

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