

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS,

No. 10,106

Received at London Office

JUL 30 1940

Writing Report 23.7.40 When handed in at Local Office 27.7.40 Port of Manchester.

Survey held at ALTRINCHAM. Date, First Survey 6.6.1940 Last Survey 18.7. 1940
Number of Visits

365 on the ^{Single} ^{Twin} ^{Triple} ^{Quadruple} Screw vessel "ALDERNEY QUEEN" Tons { Gross 633 Net 338

at Leith. By whom built Henry Robb Ltd. Yard No. When built 1936
ers Coast Lines Ltd. Port belonging to London

Engines made at Altrincham By whom made Russell Newbery & Co. Ltd. Engine No. 3538 When made 1940

Generators made at Dursley By whom made Mawdsleys Ltd. Generator No. 1743 When made 1940

of Sets One Engine Brake Horse Power 9 Nom. Horse Power as per Rule 2.6 Total Capacity of Generators 5 Kilowatts.

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 One No. of cranks One

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.13/16" Is there a bearing between each crank -

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 2.3/8" Crank pin dia. 2.3/8" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis SOLID

Intermediate Shafts, diameter as per Rule - as fitted - Thickness of cylinder liners 11/32"

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 -

Driving 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. Plunger Type 9/16" x 5/8" stroke.

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

Saving 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

Are 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 220 volts. Full Load Current 22.8 Amperes. Direct or Alternating Current Direct

Is an 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

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 Yes Receivers - Separate Tanks -

SEPARATE GEAR

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

Al Brackley
DIRECTOR

Manufacturer.



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Foundation

W1180 -0053

OR SHANK
CONTINUOUS SURVEY

Dates of Survey while building { During progress of work in shops - - } 1940 June 6 July 18
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 6.6.40 Covers 6.6.40 Pistons 6.6.40 Piston rods -
 Connecting rods 6.6.40 Crank and Flywheel shafts 6.6.40 Intermediate shafts -
 Crank and Flywheel shafts, Material O.H.Steel Identification Marks Lloyds 9987 WTM 12.1.40
 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 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 Certificate of Test for Generator is attached.

Mch 10106
ALLEN KYLE

Form 11, 37.—Transfer. (MADE IN ENGLAND.)

(The Surveys are requested not to write on or below the space for Committee Minute.)

The amount of Fee	£ 4 : 4 : 0	When applied for, 27.7.1940
Travelling Expenses (if any) £	: 6 : 0	When received, 19

Minute
 Submitted to Lloyd's Register of Shipping.

Committee's Minute

TUE. 27 AUG 1940

Assigned *No action*
ask for prompt return