

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10/106

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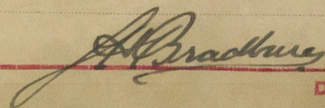
Writing Report 23.7. 1940 When handed in at Local Office 27.7. 1940 Port of Manchester.
 Survey held at ALTRINCHAM. Date, First Survey 6.6.1940 Last Survey 18.7. 1940
 Book. Number of Visits
 365 on the Single Screw vessel "ALDERNEY QUEEN" Tons { Gross 633
 Triple Net 338
 Quadruple
 at Leith. By whom built Henry Robb Ltd. Yard No. When built 1936
 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
 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
 as fitted 2.3/8" Mid. length thickness 1.5/16" Thickness around eye-hole
 Wheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 11/32"
 as fitted - Means of lubrication Forced
 governor or other arrangement fitted to prevent racing of the engine when declutched Yes
 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. Plunger Type 9/16" x 5/8" stroke.
 Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
 Sucking 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
 on the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 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
 of 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
 current 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 -
PLANS. Are approved plans forwarded herewith for Shafting Yes Receivers - Separate Tanks -
 (If not, state date of approval)

PARE GEAR

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

Manufacturer.


 DIRECTOR



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W1180 - 0053

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.

md 10106

ALD LK 1

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

Committee's Minute

TUE. 27 AUG 1940

Assigned

No action

ask for prompt return

Minute.
Surgeon to Lloyd's Register of Shipping.



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