

Rpt. Ac. 834

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12607

Date of writing Report 19... When handed in at Local Office 13th July 1946 Port of MANCHESTER. Received at London Office 16 JUL 1946

No. in Survey held at ASHTON-UNDER-LYNE. Date, First Survey 8th March, 1946. Last Survey 5th July, 1946. Number of Visits 3.

on the Twin - Triple Screw vessel M.V. REGENT TIGER Tons Gross 9860 Net 5931

Built at... By whom built Swan Hunter & Wigham Richardson Ldy Yard No. 1743. When built 1946.

Oil Engines made at Ashton-Under-Lyne. By whom made National Gas & O.E. Co. Ltd No. 57908. When made 1946.

Generator made at Sunderland. By whom made The Sunderland Forge & Eng. Co. Ltd No. G.4961. When made 1946.

No. of Sets One. Engine Brake Horse Power 20. Nom. Horse Power as per Rule 5. Total Capacity of Generators 10. 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 950. Diameter of cylinders 4 1/8". Length of stroke 6". No. of cylinders Two. No. of cranks Two.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 9/16". Is there a bearing between each crank Yes.

Revolutions per minute 1000. Flywheel dia 25". Weight 342 lbs. Means of ignition Compression. Kind of fuel used Diesel.

Crank Shaft, dia. of journals 3 1/4". Crank pin dia 3". Crank Webs Mid. length breadth 4 1/8". Thickness parallel to axis -

Flywheel Shaft, diameter Intermediate Shafts, diameter Thickness of cylinder liners 3/8".

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes. Means of lubrication Forced.

Cooling Water Pumps, No. 1 Centrifugal Pump. Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size One incorporated in engine.

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

Electric Generators:—Type Compound wound, Continuous Rating.

Pressure of supply 110 volts. Full Load Current 91. Amperes. Direct or Alternating Current Direct.

Generators, are they compounded as per Rule... 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

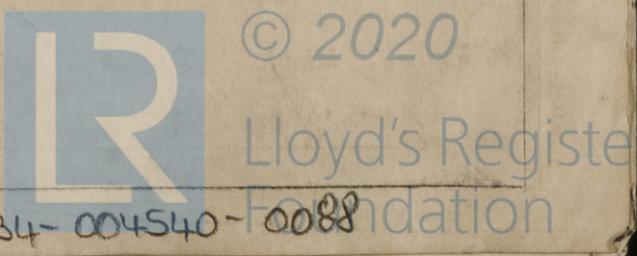
Are they shielded that they cannot be accidentally earthed, short circuited, or touched Yes. Are the lubricating arrangements of the generators as per Rule

Are approved plans forwarded herewith for Shafting 17th Sept., 1945. Receivers - Separate Tanks -

SHAFTING AS PER RULE REQUIREMENTS.

The foregoing is a correct description,

THE NATIONAL GAS AND OIL ENGINE Co. Ltd, Manufacturer.



004534-004540-0088

Dates of Survey while building
 During progress of work in shops - - 8.3.46. 11.3.46. 5th July,
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts—Cylinders 11.3.46. Covers 11.3.46. Pistons - Piston rods -

Connecting rods 5.7.46. Crank and Flywheel shafts 28.3.46. Intermediate shafts -

Crank shaft Material O.H. Steel. Tensile strength 50.0 Tons per sq. inch.
 Elongation 24% Identification Marks 28.3.46. RJY, LLOYD'S 3844.

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 tested materials and is in accordance with the Secretary's letters, approved plans and Rule Requirements. Workmanship and materials are good and the engine, when tested in the shop under full load conditions gave satisfactory results. In my opinion, this engine is suitable to be placed on board a vessel classed with this Society.

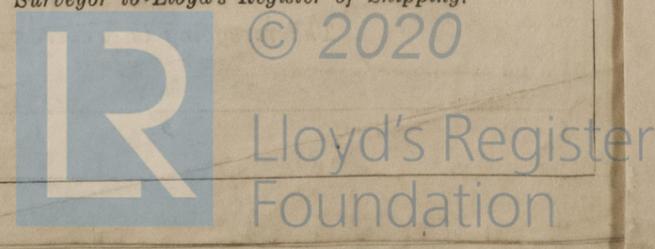
Im. 11.42.-T (MADE AND PRINTED IN ENGLAND).
 (The Surveymen are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 4 : 0 : 0. When applied for 12th July 19 46.
 Travelling Expenses (if any) £ : 7 : 9 When received 19

Committee's Minute FRI. 13 DEC 1946

Assigned See F.E. Welch. rpt.

A.G. Smith
 Surveyor to Lloyd's Register of Shipping.



ENCLOSURE
 Generator, 1000 cc, 1000 rpm, 1000 watts, 1000 lbs