

REPORT ON OIL ENGINE ELECTRIC GENERATOR/SETS.

No. 12553.

Received at London Office

30 MAY 1946

of writing Report **23rd May, 1946.** When handed in at Local Office **29th May, 1946.** Port of **MANCHESTER.**
 in Survey held at **ALTRINCHAM.** Date, First Survey **22.10.45.** Last Survey **12th April, 1946.**
 Book. **"FOSSA"** Number of Visits **4**

on the **Single** Screw vessel **Messrs. C.D. Holmes Ltd., Hull, Contract No. 1722.** Tons **Gross.**
Net.
 at **Selly** By whom built **Cochran Sons & Co.** Yard No. **1316** When built **1946**

Engines made at **Altrincham.** By whom made **Russell Newbery & Co. Ltd.** Engine No. **3998.** When made **1946.**
 Generators made at **Stockport.** By whom made **Mc Clure & Whitfield.** Generator No. **10595.** When made **1945.**
 of Sets **One.** Engine Brake Horse Power **9** Nom. Horse Power as per Rule **2 1/4** Total Capacity of Generators **1 1/2** Kilowatts

ENGINES, &c.—Type of Engines **Vertical, Solid Injection Heavy Oil, 2 or 4 stroke cycle 4** Single or double acting **single.**
 Maximum pressure in cylinders **860 lbs per sq. inch.** Diameter of cylinders **4 1/8"** Length of stroke **6"** No. of cylinders **1** No. of cranks **1**
 of bearings, adjacent to the Crank, measured from inner edge to inner edge **6 5/8"** 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 **Diesel Oil.**

Shaft, dia. of journals **Approved.** **2 3/8"** Crank pin dia. **2 3/8"** Crank Webs **Mid. length breadth 3 1/4"** Thickness parallel to axis **1 5/16"** Thickness round eye hole **1 5/16"**

heel Shaft, diameter **as per Rule.** Intermediate Shafts, diameter **as per Rule.** 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 **-**

ing Water Pumps, No. **One-Plunger type.** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **-**

licating Oil Pumps, No. and size **One - gear type.**

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

Engine Air Pumps, No. **Diameter** **Stroke** **Driven by**

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

Is a receiver, which can be isolated, fitted with a safety valve as per Rule **-**

Are the internal surfaces of the receivers to be examined **-** What means are provided for cleaning their inner surfaces **-**

Is a drain arrangement fitted at the lowest part of each receiver **-**

Pressure Air Receivers, No. **Cubic capacity of each** **Internal diameter** **thickness**

Is, lap welded or riveted longitudinal joint **Material** **Range of tensile strength** **Working pressure by Rules**

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

Is, lap welded or riveted longitudinal joint **Material** **Range of tensile strength** **Working pressure by Rules**

ELECTRIC GENERATORS: Type **Enclosed-ventilated, louvred, compound wound, continuous rating.**

Voltage of supply **110** Volts. Full Load Current **14** Amperes. Direct or Alternating Current **Direct.**

Alternating current system, state the periodicity **-** Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown on **-**

Generator not presented for shop test. **No.** Generators, are they compounded as per Rule **-** Is an adjustable regulating resistance fitted in series with each shunt field **-**

Are terminals accessible, clearly marked, and furnished with sockets **-** Are they so spaced **-**

Are they so spaced that they cannot be accidentally earthed, short circuited, or touched **-** Are the lubricating arrangements of the generators as per Rule **-**

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.**

Generators are 100 kw. or over have they been built and tested under survey **-**

Are approved plans forwarded herewith for Shaping **21st June, 1945.** Receivers **-** Separate Tanks **-**

RE GEAR **AS PER RULE REQUIREMENTS.**

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

Manufacturer.

DIRECTOR.



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Dates of Survey while building { During progress of work in shops - - 1945 Oct. 22, 23 1946 March 25, April 12.
During erection on board vessel - - -
Total No. of visits.....

Dates of Examination of principal parts - Cylinders 22.10.45. Covers 22&23.10.45. Pistons 22.10.45. Piston rods -

Connecting rods 22.10.45. Crank and Flywheel shafts 23.10.45. Intermediate shafts -

Crank shaft { Material O.H. Steel. Tensile strength.....
Elongation..... Identification Marks LLOYD'S 3509 F.H. 22.10.45. ✓

Flywheel shaft, Material - Identification Marks.....

Is this machinery duplicate of a previous case No. Identification Marks.....

Identification marks on ~~xxxxxxxx~~ Air Compressor No. 37619 H.Y.B.

Pumps LLOYD'S TEST 50 lbs sq.in. 26.3.46. J.L.S. Pump No. 5833/C.

Generator No.

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 built under special survey, of tested materials, and is in accordance with Secretary's letters, approved plans and Rule Requirements. Materials and workmanship are of 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.

The above machinery installed in engine room (starboard side, forward end.)
of single screw tug "FOSSA" at Hull
W.S. Shields.

The amount of Fee ... £ 4 : 0 : 0 { When applied for 28/5/46 19/46
Travelling Expenses (if any) £ : 13 : 4 { When received 19/46
E. Knowles
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned For minute see Hull & E. Knowles Rpt 53633
FRI 6 SEP 1946
Lloyd's Register Foundation

Im. 11. 12. - T (MAIN AND PRINTED IN ENGLAND).
(The Surveyors are requested not to write on or below the space for Committee Minute.)