

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11913

Received at London Office

11 AUG 1944

of writing Report 1. 8. 44 When handed in at Local Office 8. 8. 44 Port of MANCHESTER.
in Survey held at ASHTON UNDER LYNE. Date, First Survey 21.6.44. Last Survey 4. 8. 19 44.
Book. Number of Visits Three.

Single
on the ~~Twin~~ Triple Screw vessel "EMPIRE DYNASTY"
Quadruple
at Sunderland
By whom built J.L. THOMPSON & CO. LTD YARD N° 631.
By whom built Richardsons Westgarth Ltd. ENG No. 2744 When built 1944.

Engines made at ASHTON U LYNE. By whom made National Gas & O.E. Co. No. 57460 When made 1944.
Generators made at Stockport By whom made McAlister Whitfield Contract No. 87428/5. When made 1943 August.
of Sets One Engine Brake Horse Power 20 Nom. Horse Power as per Rule 5.7 Total Capacity of Generators 10 Kilowatts.

ENGINES, &c.—Type of Engines Vertical Solid Injection. 2 or 4 stroke cycle 4 Single or double acting Single.
Maximum pressure in cylinders 750 ✓ Diameter of cylinders 4 1/8" ✓ Length of stroke 6" ✓ No. of cylinders Two No. of cranks Two ✓
of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" ✓ Is there a bearing between each crank Yes.
Revolutions per minute 1000 ✓ Flywheel dia. 25" ✓ Weight 337 lbs. Means of ignition Compression Kind of fuel used Direct Oil. ✓
Crank Shaft, dia. of journals as per Rule Approved. 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" shrunk ✓ Thickness around eye-hole
Wheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/8" ✓
as fitted

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 -

Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Heating Oil Pumps, No. and size One - Incorporated in Engine.

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

Engining 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

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

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

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

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

ELECTRIC GENERATORS:—Type

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

Generating 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

Generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

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

Do the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

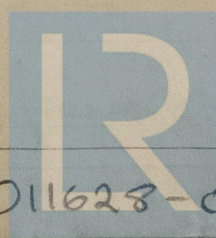
Do the generators are 100 kw. or over have they been built and tested under survey

NS. Are approved plans forwarded herewith for Shafting 11.11.42. Receivers - Separate Tanks -

ARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description,

F. R. Council THE NATIONAL GAS AND OIL ENGINE Co. Ltd Manufacturer.



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011628-011635-0273

Dates of Survey while building { During progress of work in shops - - 21.6.44. 23.6.44. During erection on board vessel - - - - - Total No. of visits

Dates of Examination of principal parts - Cylinders 23.6.44. Covers 23.6.44. Pistons 23.6.44. Piston rods 23.6.44. Connecting rods 21.6.44. Crank and Flywheel shafts 24.4.44. Intermediate shafts - Crank and Flywheel shafts, Material O. H. Steel. Identification Marks LLOYD'S 2566 ELK. FH. 24.4.44. Intermediate shafts, Material - Identification Marks - Identification marks on Air Receivers -

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Richardsons Westgarth Ship 2734/5

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 GOOD AND THE ENGINE, WHEN TESTED IN SHOP FULL LOAD CONDITIONS GAVE SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLANK ON BOARD A VESSEL CLASSED WITH THIS SOCIETY FOR THE PURPOSE INTENDED.

THIS ENGINE NO. 57460 IS INTENDED FOR RICHARDSONS WESTGARTH CONTRACT NO. 2744 - SHIPBUILDER MESSRS. J. L. THOMPSON LD., SUNDERLAND, SHIP NO. 631, TO REPLACE ENGINE NO. 56831, REPORT NO. 117 ENGINE NO. 56831 ONLY HAS BEEN TRANSFERRED TO MESSRS. N. E. MARINE ENGINE CO., SHIP NO. 751 TO REPLACE DAMAGED ENGINE NO. 56640, MANCHESTER REPORT NO. 11,378. LAING'S YARD R.W. 2735. (Empire Paragon)

This Small Oil Engine along with the 10KW Dynamo made by McClure + Whitfield Ld, Stockport No 9711. 7A. 45.5 Amps 220V. 1000 rpm and Air Compressor made by Reavell + Co Ld Job no 34871 Mach no 83364

all fitted on a Combined Bedplate have been efficiently fitted on board s/s Empire Dynasty, on Euxine Flote on Starb Side Tested under working conditions and found satisfactory

A. Watt Newcastle on Tyne 26/11/44

The amount of Fee ... £ 4 : 4 : 8.8. 19.44. Travelling Expenses (if any) £ 0 : 10 : When received, 19.

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

Committee's Minute FRL 5 JAN 1945

Assigned See F.E. machy opt



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