

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8602

Report 17.4.36. When handed in at Local Office 20-4-36 Port of MANCHESTER. Received at London Office 21 APR 1936
 Survey held at ALTRINCHAM. Date, First Survey MARCH 4/36 Last Survey APRIL 15. 1936
 Number of Visits 2

on the Motor Screw Vessel "Plover"
 Single Triple Quadruple
 DUNDEE. By whom built MESSRS CALEDON S&E Co. Yard No. 556. When built 1936.
 GENERAL STEAM NAVIGATION Co Ltd Port belonging to London.
 Engines made at ALTRINCHAM. By whom made RUSSELL NEWBURY & Co. Contract No. 3275 When made 1936
 Engines made at ALTRINCHAM. By whom made CROMPTON PARKINSON LTD Contract No. F8/A2352 When made 1936
 ONE Engine Brake Horse Power 18. Nom. Horse Power as per Rule Total Capacity of Generators 7 Kilowatts.

Engines, &c.—Type of Engines VERTICAL SOLID INJECTION. 2 or 4 stroke cycle 4 Single or double acting SINGLE
 Pressure in cylinders 900 LBS. Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 2 No. of cranks 2
 Rings, adjacent to the Crank, measured from inner edge to inner edge 4 3/4" Is there a bearing between each crank YES.
 Revolutions per minute 1000. Flywheel dia. 25" Weight 308 LBS. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL.
 Shaft, dia. of journals as per Rule APPROVED as fitted 2 1/2" Crank pin dia. 2 3/8" Mid. length breadth 3/4" Thickness parallel to axis SOLID
 as fitted 2 1/2" Crank Webs Mid. length thickness 15/16" shrunk Thickness around eyehole
 Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 11/32"
 or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication FORCED.
 Receivers fitted with safety valves No. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material
 Water Pumps, No. ONE Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Oil Pumps, No. and size ONE GEAR TYPE.
 Compressors, No. ONE No. of stages 2. Diameters 3" x 1 1/4" Stroke 2 3/4" Driven by AUY. ENGINE.
 Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule
 Internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 Main arrangement fitted at the lowest part of each receiver
 Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Air Receivers, No. Total cubic capacity Internal diameter thickness
 welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type
 Voltage of supply 220 volts. Load 3/8. Amperes. Direct or Alternating Current DIRECT.
 AC or DC current system, state frequency of periods per second
 Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES
 Do they comply with the requirements regarding rating YES are they compound wound YES
 compounded 5 per cent. if not compound wound state distance between each generator
 Variable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets
 spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule YES
 Are approved plans forwarded herewith for Shafting YES Receivers Separate Tanks

GEAR ONE SET OF VALVES & SPRINGS. ONE SET OF PISTON RINGS.
 MISSING PARTS FOR ONE FUEL PUMP. ONE SET OF BOTTOM END BOLTS.
 CYLINDER HEAD STUDS.
 SET OF PISTON RINGS, VALVES, SEATS & SPRINGS FOR COMPRESSOR

The foregoing is a correct description,

RUSSELL, NEWBURY & CO.

Yc Russell

Manufacturer.



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Lloyd's Register

003503-003512-0254

Dates of Survey while building { During progress of work in shops - - } MARCH 4. APRIL 15. 1936
 { During erection on board vessel - - - }
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 4.3.36 Covers 4.3.36 Pistons 4.3.36 Piston rods —
 Connecting rods 4.3.36 Crank and Flywheel shaft — Intermediate shaft —
 Crank and Flywheel shafts, Material 20-1.36 + 4-3.36 Identification Mark LLOYDS NO 6241. M.A.B. 20-1.36.
 Intermediate shafts, Material — Identification Marks —

Is this machinery duplicate of a previous case Yes If so, state name of vessel MCH. RPT. 8576. CALEDON. 553.

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 THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE SET WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWN SATISFACTORY RESULTS.

IN MY OPINION THE SET IS ELIGIBLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

CERTIFICATES OF TEST FOR DYNAMO AND COMPRESSOR ARE ATTACHED.

This Engine & Generator have been efficiently fitted on board.

John Houston
 Leith.
 5/6/36.

The amount of Fee ... £ 4:0:0 20.4.36
 Travelling Expenses (if any) £ 4:0:0 5/5/36

[Signature]
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

Rpt. 13.

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