

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10,373.

Date of writing Report 4-2-1941 When handed in at Local Office 15-2-1941 Port of MANCHESTER Received at London Office FEB 19 1941
 No. in Survey held at KEIGHLEY Date, First Survey 28-10-1940 Last Survey 31-1-1941
 Reg. Book. Number of Visits 4

on the Single Screw vessel "EMPIRE FORD" Tons Gross
 Built at GAINSBOROUGH By whom built J.S. WATSON (GAINSBOROUGH) LTD Yard No. 520 When built 1941
 Owners MESSRS RIX & CO Port belonging to HULL
 Oil Engines made at KEIGHLEY By whom made H. WIDDOP & CO LTD ENGINES 4059 Contract No. 4060 When made 1941
 Generators made at BELFAST By whom made H. J. SCOTT & CO GENERATORS 34669 Contract No. 34668 When made 1941
 No. of Sets TWO Engine Brake Horse Power 14 Nom. Horse Power as per Rule 4 Total Capacity of Generators 8 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 700 LBS/SQ IN Diameter of cylinders 4" Length of stroke 4" No. of cylinders ONE No. of cranks ONE
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5.125" Is there a bearing between each crank -
 Revolutions per minute 1400 Flywheel dia. 18.0" Weight 1.1 CWTs. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
 Crank Shaft, dia. of journals as per Rule APPROVED Crank pin dia. 2.25" Crank Webs 3" Mid. length breadth 3" Thickness parallel to axis SOLID
 as fitted 2.25" Mid. length thickness 1.25" Thickness around eyehole -
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 5/16"
 as fitted - as fitted -
 Is a 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 -
 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, 5/8" DIA x 1/4" STROKE
 Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
 Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

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 -
 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 110 volts. Full Load Current 36 Amperes. Direct or Alternating Current DIRECT
 If 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 shunt field -
 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 - and do the results comply with the requirements -
 If the generators are 100 kw. or over have they been built and tested under survey -

PLANS. Are approved plans forwarded herewith for Shafting 22.4.40 Receivers - Separate Tanks -
 (If not, state date of approval)
 SPARE GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description.

FOR H. WIDDOP & COMPANY LTD
J. MacLeod
 DIRECTOR

Manufacturer.



Dates of Survey while building { During progress of work in shops - - } 1940. Oct. 28. Dec 6. 1941 JAN 29. 31.
 { During erection on board vessel - - - }
 Total No. of visits 4.

Dates of Examination of principal parts—Cylinders 28.10.40 Covers 28.10.40 Pistons 6-12-40 Piston rods —
 Connecting rods 28.10.40 Crank and Flywheel shafts 28.10.40 Intermediate shafts —
 Crank and Flywheel shafts, Material O.H. INgot STEEL Identification Marks LLOYDS 15. WTM 1.3.40. (2OFF)
 Intermediate shafts, Material — Identification Marks —
 Identification marks on Air Receivers —

Is this machinery duplicate of a previous case -/ES If so, state name of vessel PIMBLOTT'S JARD NO 635

General Remarks (State quality of workmanship, opinions as to class, &c.)

THESE ENGINES HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND ARE IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE ENGINES WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWN SATISFACTORY RESULTS. IN MY OPINION THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

These generating sets have now been properly fitted on board & tried under working conditions with satisfactory results.

Challice 30/9/41

The amount of Fee ... £ : / :
 Travelling Expenses (if any) £ : / :
 When applied for, 19
 When received, 19

M. Meicenter
 Supervisor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 24 OCT 1941

Assigned

See Gms. No. 21400



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