

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 24.

23 SEP 1942

29 JUN 1942

Date of writing Report **19th May 1942** When handed in at Local Office **25-6-1942** Port of **LEEDS**
 No. in Survey held at **Keighley** Date, First Survey **23-9-41** Last Survey **24-4-1942**
 Reg. Book. **Single** on the **Twin** Screw vessel **T.R.V. 1.** Tons ^{Gross}
~~Triple~~
~~Quadruple~~
 Built at **Gainsborough** By whom built **J.S. Watson (Gainsborough) Ltd** No. **1527** When built **1942**
 Owners **Port belonging to**
 Oil Engines made at **Keighley** By whom made **H. Widdop & Co. Ltd.** Engine Contract No. **4119** When made **1942**
 Generators made at **Belfast** By whom made **Hugh J. Scott & Co. Ltd.** Generator Contract No. **39944** When made **1942**
 No. of Sets **1** Engine Brake Horse Power **7** Nom. Horse Power as per Rule **-** Total Capacity of Generators **3½** Kilowatts.

OIL ENGINES, &c.—Type of Engines **Airless injection heavy oil** 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 **1 ✓** No. of cranks **1 ✓**
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **5,125"** Is there a bearing **either side of** **yes**
 Revolutions per minute **1400** Flywheel dia. **19"** Weight **1,5 cwt.** Means of ignition **compression** and of fuel used **heavy oil**
 Crank Shaft, dia. of journals **as per Rule 2,21"** Crank pin dia. **2,25" ✓** Crank Webs **Mid. length breadth 3"** Thickness parallel to axis **-**
as fitted 2,25" **Mid. length thickness 1,25" shrunk** Thickness around eyehole **-**
 Flywheel Shaft, diameter **as per Rule approved and 2,125"** Intermediate Shafts, diameter **as per Rule -** Thickness of cylinder liners **3,125"**
as fitted 2,125" **as fitted -**
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched **yes** Means of lubrication **forced**
Engine started by hand
 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 per engine** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **-**
 Lubricating Oil Pumps, No. and size **One per engine 0,625" bore x 0,25" 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 **Compound wound, drip proof.**
 Pressure of supply **220** volts. Full Load Current **15,8** Amperes. Direct or Alternating Current **Direct ✓**
 If alternating 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 **yes**
 Generators, are they compounded as per rule **yes** 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 or shielded that they cannot be accidentally earthed, short circuited, or touched **yes** 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 **yes (attached)** and do the results comply with the requirements **yes**
 If the generators are 100 kw. or over have they been built and tested under survey **-**

PLANS. Are approved plans forwarded herewith for Shafting **13-11-40** Receivers **-** Separate Tanks **-**
 (If not, state date of approval)

SPARE GEAR In accordance with the requirements of the Rules.

The foregoing is a correct description.

For H. WIDDOP & COMPANY LTD

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 23-9-41, 9-10-41, 10-3-42, 24-4-42
During erection on board vessel - - 26-5-42, 21-7-42, 3-9-42
Total No. of visits 7

Dates of Examination of principal parts—Cylinders 23-9-41 Covers 9-10-41 Pistons 10-3-42 Piston rods -

Connecting rods 24-4-42 Crank and Flywheel shafts 31-10-41 Intermediate shafts -

Crank and Flywheel shafts, Material S.M.Steel Identification Marks: LLOYD'S No. 389 W.T.M. 31-10-41

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 Rowhedge M.605 T.R.V.2.

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been constructed under

Special Survey of tested materials, in accordance with the Secretary's letters, approved Plans and the requirements of the Rules. The materials and workmanship are good and the engine was found to be satisfactory when tested in the shop under full load conditions with generator. This engine is suitable in my opinion for fitting on board a vessel building to Class with the Society.

This auxiliary set has now been properly fitted on board the vessel and tried under working conditions with satisfactory results.

W. J. Ferguson

The amount of Fee ... £ :

Travelling Expenses (if any) £ :

When applied for,

19

When received,

19

W. J. Ferguson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assessed

FRI 9 OCT 1942

See Hul 36 51750



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