

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office

30 AUG 1943

Date of writing Report **12-3-** ^{to 43} When handed in at Local Office **17-3-** ^{to 43} Port of **LEEDS.**
 No. in Survey held at **Keighley** Date, First Survey **16-10-42** Last Survey **10-2-** ^{19 43}
 Reg. Book. Number of Visits **3**

on the ^{Single} ~~Triple~~ Screw vessel **"T.R.V.5"** Tons ^{Gross} ~~Net~~

Built at **Gainsborough** By whom built **J.S. Watson (Gainsborough)** Yard No. **1535** When built **1943**

Owners Port belonging to
 Oil Engines made at **Keighley** By whom made **H. Widdop & Co. Ltd.** Engines ~~152222~~ No. **4218** When made **1943**
 Generators made at **Belfast** By whom made **Hugh J. Scott** Generators ~~152222~~ No. **48145** When made **1942**
 No. of Sets **1** Engine Brake Horse Power **7** Nom. Horse Power as per Rule **-** Total Capacity of Generators **3,5** 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 ~~between~~ **either side of** crank **Yes**
 Revolutions per minute **1400** Flywheel dia. **19"** Weight **1,5 cwt** Means of ignition **Compression** Kind 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"** Thickness around eyehole **-**
 Flywheel Shaft, diameter as ~~per Rule~~ **Approved and** Intermediate Shafts, diameter as per Rule **-** Thickness of cylinder liners **,3125"**
 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 **no** Are the exhaust pipes and silencers water cooled or lagged with non-conducting material **-**
 Are the cylinders fitted with safety valves **no** Are the sea suction provided with an efficient strainer which can be cleared within the vessel **-**
 Cooling Water Pumps, No. **one per engine** 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**
 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)** to 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 **26-2-42** Receivers **-** Separate Tanks **-**
 (If not, state date of approval)

SPARE GEAR In accordance with the requirements of the Rules.

NOTE:- In addition to the above Generator this engine drives through gear wheels an air compressor $4\frac{1}{2}$ " Bore, $2\frac{3}{4}$ " stroke. Speed 580 R.P.M.

The foregoing is a correct description
 for H. Widdop & Company Ltd
 MANUFACTURER
 Manufacturer.



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Lloyd's Register

011047-01056-0320

24/3/43

Dates of Survey while building { During progress of work in shops - - } 16-10-42, 19-1-43, 10-2-43.
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 16-10-42 Covers 16-2-42 Pistons 10-2-43 Piston rods -
 Connecting rods 10-2-43 Crank and Flywheel shafts 12-11-40 Intermediate shafts -
 Crank and Flywheel shafts, Material S.M. Steel 28/32 tons/sq.in. Identification Marks LLOYD'S No. 388 W.T.M. 12-11-40
 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 Watsons Yard No. 1527

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 classed with the Society.

101.4.30.—Transfer. (MADE AND PRINTED IN ENGLAND)
 (The Surveys are requested not to write on or below the space for Committee Minute.)

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

D. Whalley
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 20 AUG 1943**
 Assigned. *see minute on Sub. 26 Rpt.*