

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 126

Received at London Office

2 JUN 1945

Date of writing Report 23-5-1945 When handed in at Local Office 24-5-1945 Port of LEEDS.

No. in Survey held at Keighley Date, First Survey 11-9-44 Last Survey 12-3-1945  
Reg. Book. Number of Visits 3

on the ~~Twin~~ <sup>Single</sup> Screw vessel "T.R.V.6." Tons <sup>Gross</sup> <sub>Net</sub>

Built at Gainsborough By whom built J.S. Watson (Gainsborough) Yard No.1549 When built 1945

12-4 Owners Port belonging to

Oil Engines made at Keighley By whom made H. Widdop & Co. Ltd. Engines. Contract No.4376 When made 1945

Generators made at Belfast By whom made Hugh J. Scott Generators Contract No. 62183 When made 1944

No. of Sets 1 Engine Brake Horse Power 7 Nom. Horse Power as per Rule - Total Capacity of Generators 3,5 Kilowatts.

IL 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. 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 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" as fitted 2,25" Crank pin dia. 2,25" Crank Webs Mid. length breadth 3" Thickness parallel to axis -

Flywheel Shaft, diameter as per Rule Approved and as fitted 2,125" Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 3,125"

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

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 To be forwarded 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 9-12-43 Receivers - Separate Tanks -

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 6" x 2 3/4" Bore 3" stroke, Speed 580 R.P.M.

The foregoing is a correct description.

J. Imachead

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 11-9-44, 14-2-45, 12-3-45. During erection on board vessel - - - Total No. of visits

Dates of Examination of principal parts—Cylinders 11-9-44 14-2-45 Covers 11-9-44 Pistons 12-3-45 Piston rods Connecting rods 14-2-45 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. 12-11-4 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. 1535.

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.

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

Committee's Minute Assigned See F.E. machy rpt.

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