

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 56

Received at London Office

20 MAR 1943 9 AUG 1943

Date of writing Report 12-3-43 When handed in at Local Office 17-3-43 Port of LEEDS.
No. in Survey held at Reg. Book. Date, First Survey 3-2-43 Last Survey 26-2-19 43
Number of Visits 3
on the ~~Three~~ Single 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
Port belonging to
Owners
Oil Engines made at Keighley By whom made H. Widdop & Co. Ltd. Engine No. 4217 When made 1943
Generators made at Belfast By whom made Hugh J. Scott Generator No. 48144 When made 1942
No. of Sets 1 Engine Brake Horse Power 40/45 Nom. Horse Power as per Rule - Total Capacity of Generators 15 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. No. of cylinders 5 1/2" Length of stroke 6 1/4" No. of cranks 3 No. of cranks 3
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/2" Is there a bearing between each crank Yes
Revolutions per minute 1000 Flywheel dia. 25" Weight 3,7 cwt Means of ignition Compression Kind of fuel used heavy oil
Crank Shaft, dia. of journals as per Rule 3" as fitted 3 1/4" Crank pin dia. 3 1/4" Crank Webs Mid. length breadth 4 1/4" Thickness parallel to axis -
Mid. length thickness 1 5/8" Thickness around eye hole -
Flywheel Shaft, diameter as per Rule Mounted on Crankshaft Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 5/16"
as fitted Coupling.
Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced
Air Servo Motor fitted for starting
Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -
at 500 R.P.M.
Cooling Water Pumps, No. 1-1 1/2" bore x 2" stroke Is the sea suction provided with an efficient strainer which can be cleared within the vessel -
Lubricating Oil Pumps, No. and size 1. Double acting 1 3/8" bore x 3/4" stroke at 500 R.P.M.
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 58 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
If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test Yes (attached) 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 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 clutches,
a stand-by double acting lubricating oil pump 1 1/4" bore by 3" stroke and a Hamworthy
centrifugal general service pump (No. 60217) having a capacity of 62 tons per hour.

The foregoing is a correct description.

For H. WIDDOP & CO. LTD
MANUFACTURER.



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Lloyd's Register

011047-011056-0319

Dates of Survey while building { During progress of work in shops - - 3-2-43, 18-2-43, 26-2-43. During erection on board vessel - - - Identification Marks LLOYD'S N. 770 7-7-42 J.N.B. Total No. of visits

Dates of Examination of principal parts—Cylinders 3-2-43 Covers 3-2-43 Pistons 26-2-43 Piston rods - Connecting rods 26-2-43 Crank and Flywheel shafts 7-7-42 Intermediate shafts - Crank and Flywheel shafts, Material S.M. Steel 30/35 ton/sq.in. Identification Marks LLOYD'S N. 770 7-7-42 J.N.B. 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.

Rpt. 4c.

Date of writing R

No. in Survey Reg. Book.

Built at

Owners

Oil Engines

Generators m

No. of Sets

OIL ENGI

Maximum press

Span of bearings

Revolutions per

Crank Shaft,

Flywheel Sha

Is a governor on

Engine

Are the cylinder

Cooling Water

Lubricating

Air Compres

Scavenging A

AIR REC

Is each receiver

Can the interna

Is there a drain

High Pressu

Seamless, lap

Starting Air

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Pressure of

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PLANS.

SPARE

NOTE

The

Im. 433.—Transfer. (MAY BE PRINTED IN ENGLAND)

(The Surveyors 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...

Committee's Minute

FRI. 20 AUG 1943

Assigned

see minute on Sub. H. Rpt.

D. H. Ballman
Surveyor to Lloyd's Register of Shipping.



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Foundation