

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 48415

17 OCT 1928

Received at London Office

Date of writing Report 9. Oct 1928 When handed in at Local Office 12. 10. 1928 Port of Glasgow

in Survey held at Glasgow

Date, First Survey 26. 6. 28

Last Survey 9. 8. 1928

Book.

Number of Visits 13

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel

M.V. "Winton"

Tons { Gross 4388
Net 2570.

built at Port Glasgow

By whom built W. Hamilton & Co. Ltd. Yard No. 404 When built 1928

owners

The Avenue Shipping Co. Ltd.

Port belonging to London

Engines made at Glasgow

By whom made Fiat Contract No. 113 When made 1928

Generators made at Glasgow

By whom made Laminated Co. Ltd. Contract No. 50122 When made 1928

No. of Sets 3 Engine Brake Horse Power 120 Nom. Horse Power as per Rule 34 Total Capacity of Generators 225 Kilowatts.

L ENGINES, &c. Type of Engines Fiat 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 600 lb Diameter of cylinders 250 7/8 Length of stroke 450 7/8 No. of cylinders 2 No. of cranks 2

Pitch of bearings, adjacent to the Crank, measured from inner edge to inner edge 330 7/8 Is there a bearing between each crank Yes

Revolutions per minute 270 Flywheel dia. 1800 7/8 Weight 2.5 Tons Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 157 7/8 as fitted 160 Crank pin dia. 160 7/8 Crank Webs Mid. length breadth 202 7/8 Mid. length thickness 88 Thickness parallel to axis shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule 152 7/8 as fitted 160 ARMATURE Intermediate Shafts, diameter as per Rule 4 1/2 Thickness of cylinder liners 30 5/16

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Mechanical

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water Cooled

Cooling Water Pumps, No. One each engine the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One each engine Section 40 7/8

Air Compressors, No. One each Eng. No. of stages 3 Diameters 260 260 52 7/8 Stroke 320 7/8 Driven by Crank shaft

Scavenging Air Pumps, No. One each Eng. Diameter 300 7/8 Stroke 410 7/8 Driven by Crank shaft

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Boreing plate fitted

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Plug. Cover fitted

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. One each Eng. Cubic capacity of each 24 litres Internal diameter 186 7/8 thickness 9 7/8

Seamless, lap welded or riveted longitudinal joint Seamless Material S. Range of tensile strength 35/38 Tons Working pressure by Rules 1850 lb

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 Open

Pressure of supply 220 volts. Load 340 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

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

PLANS. Are approved plans forwarded herewith for Shafting 26. 7. 28 Receivers Separate Tanks

SPARE GEAR 1 Fuel valve complete, 3 fuel valve spindles, 1 Gyle relief valve, 1 Starting air valve complete,

1 oil rings for main pistons, 2 bottom end bolts & nuts, 2 Main bearing nuts, 1 oil Compression piston rings for

each stage, 1 oil valve for nut, 1 oil Fuel pump working parts, 1 oil Cylinder cross studs & nuts,

1 gudgeon pin, 1 oil piston cooling link gear, 1 oil compression valve tubes & heads, 1 oil valve for

Circuit motor pump, 1 Cylinder cross with nuts complete, 1 Gylinder pins, 1 piston, Piston rings

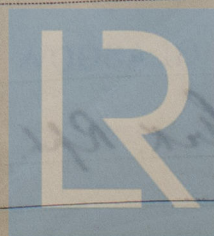
rings etc. 3 sets of bearings

9.10.28

The foregoing is a correct description,

John Rogers
WORKS MANAGER.

Manufacturer.



© 2020

Lloyd's Register
Foundation

W663-0169

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

1928 June 26-29 July 3.6.9.12 26.27.31 Aug 2.6.7.9

Dates of Examination of principal parts—Cylinders 29.6.28 Covers 26.6.28 Pistons 6.7.28 Piston rods Tank

Connecting rods 6.7.28

Crank and Flywheel shaft

Intermediate shaft

Crank and Flywheel shaft, Material S.M.S.

Identification Mark R.W.F.

Intermediate shafts, Material S.M.S.

Identification Marks 50/12, 1

Is this machinery duplicate of a previous case? If so, state name of vessel

General Remarks

(State quality of workmanship, opinions as to class, etc.)

This machinery has been constructed under special survey. The dimensions being as approved. The materials and workmanship employed in its manufacture, as far as can be seen, are sound and efficient and the engines present satisfactory working arrangements.

In my opinion, these engines will be eligible for inclusion in the classification and record of + L.C.C. of the vessel for which they are intended.

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Fee ... £ 10 : 4 : 6

When applied for,

Travelling Expenses (if any) £ —

When received,

30.10.28

W. Lane

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 16 OCT 1928

Assigned See Gen. Rpt. No. 18968.



© 2020

Lloyd's Register Foundation