

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 100,714

29 OCT 1934

30 JAN 1935

Date of writing Report 27th October 1934 When handed in at Local Office 29 OCT 1934 Port of LondonNo. in Survey held at Bedford
Reg. Book.Date, First Survey 3rd May 1934 Last Survey 16th October 1934

Number of Visits 29

Single
on the Twin
Triple
Quadruple
Screw vessel

M/V Port Wyndham

Tons { Gross 8580
Net 5233

at Glasgow.

By whom built John Brown & Co. Ltd.

Yard No. 541 When built 1934

s Commonwealth and Dominion Line Ltd.

Port belonging to

Engines made at Bedford

By whom made W. H. Allen & Sons Ltd.

Contract No. 43968 When made 1934

Generators made at Bedford

By whom made W. H. Allen & Sons Ltd.

Contract No. 43969 When made 1934

Sets 3 Engine Brake Horse Power 1662 Nom. Horse Power as per Rule

Total Capacity of Generators 1125 Kilowatts.
(3 x 375 kW.)

ENGINES, &c.—Type of Engines (6847) Heavy oil. Solid injection 2 or 4 stroke cycle 4 Single or double acting Single

Mean pressure in cylinders 650 lb. Diameter of cylinders 350 mm Length of stroke 470 mm No. of cylinders 6 No. of cranks 6

Bearings, adjacent to the Crank, measured from inner edge to inner edge 420 mm Is there a bearing between each crank Yes

Revolutions per minute 350 Flywheel dia. 1800 mm Weight 8500 lb. Means of ignition Compression Kind of fuel used Heavy oil.

Shaft, dia. of journals as per Rule 200 mm as fitted 210 mm Crank pin dia. 210 mm Crank Webs Mid. length breadth 310 mm Thickness parallel to axis shrunk Mid. length thickness 105 mm Thickness around eye-hole

Shaft, diameter as per Rule as fitted Crank shaft Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 26 mm

Governor or other arrangement fitted to prevent racing of the engine when started Yes Means of lubrication Forced.

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

Cooling Water Pumps, No. None on engines Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Feeding Oil Pumps, No. and size 1. rotary gear pump for engine 20.5 gallon per minute.

Compressors, No. No. of stages Diameters Stroke Driven by

Suctioning Air Pumps, No. Diameter Stroke Driven by

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

Internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces

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

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seams, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Suctioning Air Receivers, No. 3 Total cubic capacity 14 x 3 = 42 cu. ft. Internal diameter 20 1/8" thickness 7/16"

Seams, lap welded or riveted longitudinal joint D.R. Tap. Material Steel Range of tensile strength 26/30 tons Working pressure by Rules 24/16 = 300 lb.

ELECTRIC GENERATORS:—Type Marine type. 4 pm.

Voltage of supply 220 volts Load each 1705 Amperes. Direct or Alternating Current Direct

Generating current system, state frequency of periods per second

Is 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

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

Adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

If 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

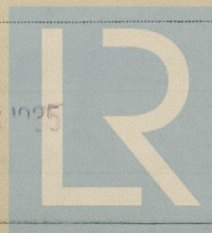
V.S. Are approved plans forwarded herewith for Shafting 5-12-29 Receivers 13-2-31 Separate Tanks

2. GEAR 1 cylinder liner, 1 cylinder head, 1 piston complete, 6 gudgeon pins, 48 piston rings and 12 scraper rings, 6 pairs main bearings, 6 pairs bottom end bearings, 2 pairs thrust bearings, 6 gudgeon pin bearings, 8 main bearing studs, 2 connecting rod bolts, 3 exhaust valves complete, 3 starting air valves, 6 injector nozzles & valves, 1. prop. chain & chain drive 3 fuel pumps, 3 fuel injectors, 3 fuel pump delivery valves & seats, 1 pump unit for lubrication, 46 various springs 1 pair dynamo bearings. 1 thrust coil, 9 bush holders.

The foregoing is a correct description,
W. H. ALLEN, SONS & Co., Ltd.

Manufacturer.

TUE. 12 FEB 1935



© 2020

Lloyd's Register
Foundation

004642-004645-0148

Dates of Survey while building { During progress of work in shops - - 1934 May 3. 9. 16. 17. 25. 31. June 13. 19. 22. 28 July 4. 10. 17. 27 Aug 2. 17. 21. 28. 29. 31 Sept 5. 18. 21. 25. 27 Oct. 10. 16 = 27 visits. During erection on board vessel - - - Total No. of visits

Dates of Examination of principal parts—Cylinders 9.5.34 to 31.8.34 Covers 16/5/34 - 16/10/34 Pistons 21/8/34 - 5/9/34 Piston rods —

Connecting rods 21/8/34 to 5/9/34 Crank and Flywheel shafts 10/7/34 - 2/8/34 Intermediate shaft —

Crank and Flywheel shaft, Material 7.2. Hül Identification Mark see below Intermediate shafts, Material — Identification Marks —

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Allen K/38235. Swan Hunt & Wigham Richardson N° 1483

General Remarks (State quality of workmanship, opinions as to class, etc.) Workmanship good.

These three sets of auxiliary oil engines and their direct coupled electric generators have been built under special survey in accordance with the approved plan of the Rules.

The materials used have been made at works approved by the Committee and tested by the Surveyors to this Society. They have satisfactorily withstood six hours full power, two hours overload, governing & imulation tests in shop and have now been dispatched to Glasgow for fitting onboard.

They will meet in my opinion the notation of Electric Light in the Register Book, when fitted onboard and tested as required by the Rules.

Attached hereto: Longing Certificate 3 in R. - Certificate for an Approved List of Spare Gear

Crank Shaft, Stamped.

K/43968/A
Lloyd
1264
MAB
15-5-34
SAL
10-7-34

K/43968/B
Lloyd
1334
MAB
8-6-34
SAL
2-8-34

K/43968/C
Lloyd
1314
MAB
8-6-34
SAL
2-8-34

The amount of Fee ... £ 90 : 12 : -

2/ - (475 + 431) 11/7

Travelling Expenses (if any) £ 7 : 11 : -

When applied for,

30 OCT 1934

When received,

1/11/35

Geo. A. Lamb

Surveyor to Lloyd's Register of Shipping.

TUE. 12 FEB. 1935

Committee's Minute

GLASGOW 29 JAN 1935

Assigned

See Gen. Rpt. No 55340.



© 2020

Lloyd's Register
Foundation