

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Bel 9717
No. 90,901

1147551

24 DEC 1926

Reporting Report Dec. 24th 1926 When handed in at Local Office 24 DEC 1926 Port of London
Survey held at Bedford Date, First Survey August 9th Last Survey Dec. 17th 1926
Number of Visits

on the Single } Screw vessel "PORT FREEMANTLE" Tons { Gross
Twin }
Triple }
Quadruple }

at Belfast By whom built Workman, Clark & Co Yard No. 489 When built 1927
Commonwealth & Dominion Line, Ltd. Port belonging to London

Engines made at Bedford By whom made Messrs. W. H. Allen Sons & Co Contract No. 42901/1/43 When made 1926

Motors made at Bedford By whom made Messrs. W. H. Allen Sons & Co Contract No. 42901/1/213 When made 1926

Sets 3 Engine Brake Horse Power 375 ^{each set} Nom. Horse Power as per Rule 108 ^{each set} Total Capacity of Generators 250 ^{each set} Kilowatts.
~~1125 total~~ ~~324 total~~ ~~750 total~~

ENGINES, &c.—Type of Engines Diesel (Barnister Main.) 2 or 4 stroke cycle 4 Single or double acting S.A.
a pressure in cylinders 530 ^{lb/sq in} Diameter of cylinders 4 10 ⁱⁿ Length of stroke 520 ⁱⁿ No. of cylinders 4 No. of cranks 4

bearings, adjacent to the Crank, measured from inner edge to inner edge 476 ⁱⁿ Is there a bearing between each crank Yes
ns per minute 230 Flywheel dia 2180 ⁱⁿ Weight 6 Tons Means of ignition Compression Kind of fuel used Diesel

Shaft, dia. of journals as per Rule 223 ⁱⁿ Crank pin dia. 240 ⁱⁿ Crank Webs Mid. length breadth 380 ⁱⁿ Thickness of cylinder liners 34 1/2 ⁱⁿ
as fitted 235 ⁱⁿ Mid. length thickness 127 ⁱⁿ shrunk Solid forged.

eel Shaft, diameter as per Rule 223 ⁱⁿ Intermediate Shafts, diameter as fitted 235 ⁱⁿ Thickness of cylinder liners 34 1/2 ⁱⁿ
as fitted 235 ⁱⁿ

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced, geared from engine
cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged Yes

g Water Pumps, No. None Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
eating Oil Pumps, No. and size One driven off each engine

ompressors, No. 1 on each engine No. of stages 3 Diameters 62, 285, 325 ⁱⁿ Stroke 210 ⁱⁿ Driven by Engine
nging Air Pumps, No. None Diameter ✓ Stroke ✓ Driven by ✓

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Fusible Plug
e internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Removal of top & bottom fittings

a drain arrangement fitted at the lowest part of each receiver Yes
Pressure Air Receivers, No. 3 Cubic capacity of each 90 litres Internal diameter 9 3/4 ⁱⁿ thickness 3/8

ess, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 33 to 39 Working pressure by Rules 1167

ing Air Receivers, No. 3 Total cubic capacity 230 litres Internal diameter 14 ⁱⁿ thickness 1/2 ⁱⁿ

ess, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 26 to 30 Working pressure by Rules 897
(See Sec. 24. 20-2-26)

CTRIC GENERATORS:—Type Open
sure of supply 220 volts. Load 1135 Amperes. Direct or Alternating Current Direct

ernating current system, state frequency of periods per second ✓
he Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

erators, do they comply with the requirements regarding rating Yes are they compound wound Compo. & I.P.

ey over compounded 5 per cent. No, 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

ey 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

WS. Are approved plans forwarded herewith for Shafting No, See Sec. 24. 1-4-26 Receivers No Separate Tanks ✓
(If not, state date of approval)

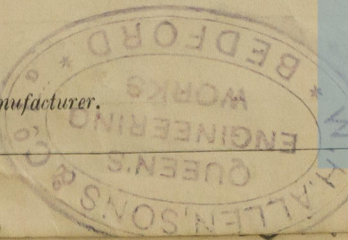
RE GEAR See attached List K2/69124

The foregoing is a correct description,

Relstrib

For W. H. ALLEN, SONS & Co., Ltd.

Manufacturer.



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003549-003555-0129

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

May 3. Aug 9. 13. 20. 25. 27. 31. Sep. 10. 17. Oct. 8. 26. Nov. 4. 19. Dec. 17. = Six full visits.

Dates of Examination of principal parts—Cylinders Aug. 9, 31. Nov. 19. Covers Aug. 9, 13, 31. Sep. 10. Nov. 19. Pistons Aug. 13. Piston rods ✓

Connecting rods May 3^d Crank and Flywheel shaft Aug. 9, 20, 25, 27. Sep. 17. Intermediate shaft ✓

Crank and Flywheel shaft, Material Solid forged Steel Identification Mark (1) LLOYDS TEST 1280 6752 26 13-8-26 (2) LLOYDS TEST 1280 2872 26 27-8-26 (3) LLOYDS TEST 1280 3152 26 17-9-26 Identification Marks

Is this machinery duplicate of a previous case No. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been constructed under Special Survey in accordance with approved plans and Rule requirements.

The workmanship and material, so far as can be seen, are good and satisfactory bench trials have been carried out under survey.

The three sets which are numbered 42901/1/2/3 have been despatched to Belfast where they are to be installed on board and, in my opinion, will be eligible for inclusion in the classification and record of T.L.M.C. of the vessel.

These engines have been efficiently installed on board the vessel and tried out under working conditions at both morning and sea trials. The vessel is now, in my opinion, eligible for record T.L.M.C. of 27.
R. Lee James.

1m. 7.20—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 32 - 2 - 0

Travelling Expenses (if any) £ 8 - 5 - 5

When applied for, 24 DEC 1926

When received, 23/4/1927

Richard A. Palmer.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

1048. 12 APR 1927

See Bel. Rpt. 9717



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