

EMERGENCY
REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 101.268

Report made on 14 March 1935 When handed in at Local Office 26 MAR 1935 Port of London
Survey held at Beaford Date, First Survey 25 January 1935 Last Survey 12 March 1935
Number of Visits 5

Single
Twin
Triple
Quadruple } Screw vessel
Tons { Gross
Net

Barron By whom built Vickers Armstrong & Co. Ltd. Yard No. 697 When built 1935
Orient Steam Navigation Co. Ltd. Port belonging to

Engine made at Beaford By whom made W. H. Allen Sons & Co. Ltd. Contract No. K/47678 When made 1935

Engine made at Beaford By whom made W. H. Allen Sons & Co. Ltd. Contract No. E/47679 When made 1935

Engine Brake Horse Power 142 Nom. Horse Power as per Rule 40 Total Capacity of Generators 90 Kilowatts.

Engines, &c.—Type of Engines Heavy oil, oil injection (6327) 2 or 4 stroke cycle 4 Single or double acting single

Bore in cylinders 660 mm Diameter of cylinders 200 mm Length of stroke 275 mm No. of cylinders 6 No. of cranks 6

Distance between adjacent cranks, measured from inner edge to inner edge 214 mm Is there a bearing between each crank Yes

Revolutions per minute 500 Flywheel dia. 1220 Weight 1700 lb Means of ignition Compression Kind of fuel used Heavy oil

Dia. of journals as per Rule 111 mm Crank pin dia. 130 mm Crank Webs Mid. length breadth 182 mm Thickness parallel to axis shrunk

Dia. of journals as fitted 130 mm Mid. length thickness 50 mm Thickness around eye hole shrunk

Intermediate Shafts, diameter as per Rule shrunk Thickness of cylinder liners 14 mm

Other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material No

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Oil Pumps, No. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Oil Pumps, No. and size one - 9 gallons per minute

Air Pumps, No. one Diameter 100 mm Stroke 100 mm Driven by engine

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

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

Is an arrangement fitted at the lowest part of each receiver Yes

Air Receivers, No. one Cubic capacity of each 12 cu. ft. Internal diameter 13 7/8" thickness 5/16"

Welded or riveted longitudinal joint DR. Pap Material Steel Range of tensile strength 26/30 ton Working pressure by Rules 360 lb

Receivers, No. 2 Total cubic capacity 12 cu. ft. Internal diameter 13 7/8" thickness 5/16"

Welded or riveted longitudinal joint DR. Pap Material Steel Range of tensile strength 26/30 ton Working pressure by Rules 360 lb

GENERATORS:—Type Open. with canopy Rating 55 kW at 230V

Supply 220 volts. Load 410 Amperes. Direct or Alternating Current Direct

Current system, state frequency of periods per second 50

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

Do they comply with the requirements regarding rating Yes are they compound wound Yes

Compounded 5 per cent. Yes, if not compound wound state distance between each generator Yes

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

Are the terminals shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

Are approved plans forwarded herewith for Shafting 23-11-31 Receivers 23-7-34 Separate Tanks Yes

GEAR Complete set of valves and springs for one cylinder 3 fuel injection nozzle

1 set of rings for one piston, 1 set of rings and nuts for one cylinder cover, 2 bottom end bolts,

1 set of main bearing bolts, one fuel pump.

foregoing is a correct description,

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

Dates of Survey while building { During progress of work in shops - - 1935. Jan. 25. Feb. 22. 25. March 8. 12.
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders 22/2/35-25/2/35 Covers 25/1/35-25/2/35 Pistons 22.2.35. Piston rods

Connecting rods 25.2.35

Crank and Flywheel shaft 25.2.35

Intermediate shaft

Crank and Flywheel shafts, Material A.D. Steel

Identification Mark

Intermediate shafts, Material

Identification Marks

K1/47678
LLOYDS 5329
S.W. 21-11-34
H.M.C. 25.2.35

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.) Workmanship good.

This emergency electric generating set has been specially surveyed during the materials used have been made at works approved by the Committee listed by the Surveyors to this Society. Full power, 10% overload, good and modulation tests were not made & found satisfactory. It has been dispatched to Barrow for fitting onboard.

Attached hereto - Fitting Certificate 1 in 10.
Copy of certificate for an receipt.
Makers test certificate for generator.

40 H.P. 90 H.P.

The amount of Fee ... £ 4-4-0

When applied for,

26 MAR 1935

Travelling Expenses (if any) £ 1-4-0

When received,

2nd May 1935

Geo. A. Larny
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI, 9 AUG 1935

TUE. 13 AUG 1935

Assigned

See Brw. J.E. 2576



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