

EMERGENCY REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 101268

Report made on 14th 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 12th March 1935
Number of Visits 5

Single
Twin } Screw vessel
Triple }
Quadruple }
Tons { Gross
 { Net

Barrow By whom built Vickers Armstrong 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.

Type of Engines Heavy oil, valve injection (6327)² or 4 stroke cycle 4 Single or double acting single
Diameter of cylinders 660th" 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
Flywheel dia. 1220 Weight 1700 lbs Means of ignition Compressions Kind of fuel used Heavy oil

Journal dia. as per Rule 111^{mm} Crank pin dia. 130^{mm} Crank Webs Mid. length breadth 182^{mm} Thickness parallel to axis shrunk
Journal dia. as fitted 130^{mm} Mid. length thickness 50^{mm} Thickness around eyehole 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

Number of 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 10" Stroke 10" Driven by engine

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
Are the inner surfaces of the receivers examined Yes What means are provided for cleaning their inner surfaces Yes

Are the receivers fitted at the lowest part of each receiver Yes

Number of Air Receivers, No. 2 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
" " actual 300 lb

GENERATORS:—Type Open. with comp. gy. Rating 55 F & 100 H.
Supply 220 volts. Load 410 Amperes. Direct or Alternating Current Direct

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

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

Are all terminals accessible, clearly marked, and furnished with sockets 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 nozzles
rings for one piston, 1 set studs & nuts for one cylinder cover, 2 bottom end bolts,
air bearing bolts, one fuel pump.

Is the foregoing a correct description, Yes

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



004285-004291-0099

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

K/47678
 LLOYD'S 5329
 SW. 21-11-34
 H.M.C. 25.2.35

Intermediate shafts, Material

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.) *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 insulation tests were witnessed & found satisfactory. It has been dispatched to Barrera for fitting onboard.

*Attached hereto - Fitting Certificate 1 m 11.
 Copy of certificate for an receipt
 Make the certificate for generator.*

40 HP. 90 KW.

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. Farré
 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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Im. 6.31—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)