

apt. 4c.

EMERGENCYREPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.No. 100745
20 FEB 1935

Date of writing Report 29 October 1934 when handed in at Local Office 8 NOV 1934 Port of London
Received at London Office 8 NOV 1934

No. in Survey held at Bedford

Date, First Survey 21 August 1934 Last Survey 19 October 1934

Number of Visits 6

Reg. Book.

Single
on the Twin
Triple
Quadruple

M. V. MANOORA

Tons Gross 0856
Net 6361

Built at Glasgow

By whom built Alex. Stephen & Sons Ltd

Yard No. 540 When built 1934

Owners Adelaide Steam Shipping Co. Ltd.

Port belonging to Melbourne

Oil Engines made at Bedford

By whom made W.H. Allen Son & Co. Ltd. Contract No. K1/45747 When made 1934

Generators made at Bedford

By whom made W.H. Allen Son & Co. Ltd. Contract No. E1/4574 When made 1934

No. of Sets 1. Engine Brake Horse Power 60 Nom. Horse Power as per Rule Total Capacity of Generators 39. Kilowatts.

OIL ENGINES, &c.—Type of Engines (4518) Heavy oil. Solid injection 2 or 4 stroke cycle 4 Single or double acting, single

Maximum pressure in cylinders 700 lb. Diameter of cylinders 145 mm Length of stroke 180 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 154 mm Is there a bearing between each crank Yes ✓

Revolutions per minute 900 Flywheel dia. 780 mm Weight 0.35 tons Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 78.2 mm Crank pin dia. 90 mm Crank Webs Mid. length breadth 134 mm Thickness parallel to axis
as fitted 100 mm Crank pin dia. 90 mm Crank Webs Mid. length thickness 36 mm shrunk Thickness around eye hole ✓Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 8 mm
as fitted Crank shaft as fitted

Is a governor or other arrangement fitted to prevent racing of the engine No Means of lubrication Forced ✓

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

Cooling Water Pumps, No. 1. centrifugal ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1. rotary. 3 gallons per minute.

Air Compressors, No. 1. No. of stages 1 Diameters ✓ Stroke ✓ Driven by —

Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by —

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

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

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

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

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

Starting Air Receivers, No. 1 (C.T.C. 8371683) Total cubic capacity 2 1/4 cu. ft. Internal diameter 10" thickness 1/4" 5-37

Seamless, lap welded or riveted longitudinal joint Material Steel Range of tensile strength 26/30 t. s. a" Working pressure by Rules 360 t. s. a"

ELECTRIC GENERATORS:—Type Enclosed. Ventilated. Dry proof.

Pressure of supply 220 volts. Load 177 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 24 8.33 Receivers Separate Tanks ✓

SPARE GEAR See list attached hereto. In engine Spares ✓

Electrical Spares. 1 roller bearing for armature
8 bush and 2 bush boxes.

The foregoing is a correct description,

W.H. ALLEN, SONS & CO. LTD.

W. H. Allen & Sons Ltd.
Manufacturer.

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Lloyd's Register
Foundation

Dates of Survey while building
 During progress of work in shops - 1934. Aug 21. Sept 21. 27. Oct 2. 10. 19 = 6 Visits
 During erection on board vessel -
 Total No. of visits

Dates of Examination of principal parts—Cylinders 21.9.34 Covers 21.9.34 Pistons 21.9.34 Piston rods —

Connecting rods 21.9.34 Crank and Flywheel shaft 21.8.34 Intermediate shaft —

Crank and Flywheel shaft, Material A.O. Steel. Identification Mark R/45747
LLOYD'S 5077
SA 20.7.34 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 generating set has been specially surveyed during construction. The materials used have been made at works approved by the Committee and tested by the Surveyors to this Society. It satisfactory with full power, overload, and insulation tests and has now been dispatched to Glasgow for fitting onboard.

Attached hereto. Forging certificate of crank shaft.
 List of spare gear.
 Certificate for an receiver.

The amount of Fee £ 3.3.0 When applied for 3 Nov 1934

When received,

1/1/35 38M

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

Committee's Minute GLASGO. 19 FEB 1935

Assigned See Ges. Rpt. No. 544412