

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15261

Date of writing Report 29.11.33 When handed in at Local Office 7.12.33 Port of Southampton
 No. in Survey held at Yeuville Date, First Survey 11.10.33 Last Survey 24.11.33
 Reg. Book. Yeuville Number of Visits 4
 on the Single Twin Triple Quadruple Screw vessel "ROCK"
 Built at Hebburn on Tyne By whom built Wm. Hawthorne Leslie & Co. Yard No. 591 When built 1933
 Owners Free Trade Wharf Co. Ltd. Port belonging to London
 Oil Engines made at Yeuville By whom made Pettens Ltd. Contract No. 70-809 When made 1933
 Generators made at Acton Vale, London By whom made C. A. V. Bosch Contract No. — When made 1933
 No. of Sets 1 Engine Brake Horse Power 7 Nom. Horse Power as per Rule 4 Total Capacity of Generators 5 Kilowatts.

OIL ENGINES, &c.—Type of Engines Pettens Diesel 2 or 4 stroke cycle 2 Single or double acting Single
 Maximum pressure in cylinders 650 Diameter of cylinders 4 1/2 Length of stroke 6 1/4 No. of cylinders 1 No. of cranks 1
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/4 Is there a bearing between each crank ✓
 Revolutions per minute 650 Flywheels dia. 2' 2" Weight 130 lbs each Means of ignition compression Kind of fuel used Diesel Oil
 Crank Shaft, dia. of journals 2 1/2 Crank pin dia. 2 1/2 Crank Webs 3 3/8 Mid. length breadth 1 3/8 Thickness parallel to axis shrunk
 Flywheel Shaft, diameter 2 3/8 Intermediate Shafts, diameter as per Rule Thickness around eyehole as fitted
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched ✓ Means of lubrication Disc. & Mech. Lub.
 Are the cylinders fitted with safety valves ✓ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
 Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
 Lubricating Oil Pumps, No. and size ✓
 Air Compressors, No. — No. of stages — 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

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.

Total cubic capacity

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

ELECTRIC GENERATORS:—Type C. A. V. Bosch

for lighting only.

Pressure of supply 12 volts. Load 48 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 ✓

Generators, do they comply with the requirements regarding rating

are they compound wound no

are they over compounded 5 per cent.

, if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets ✓

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched ✓

Are the lubricating arrangements of the generators as per Rule

PLANS. Are approved plans forwarded herewith for Shafting 4.10.33

(If not, state date of approval)

Receivers

Separate Tanks

SHAFTING GEAR

The foregoing is a correct description,

Robertson

P. R. Potters

Manufacturer.



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Lloyd's Register
Foundation

007714-007721-0271

Dates of Survey while building { During progress of work in shops - - 11-10-33 13-10-33 23-10-33 24-11-33
 { During erection on board vessel - - -
 Total No. of visits 4

Dates of Examination of principal parts—Cylinders 11-10-33 Covers 11-10-33 Pistons 11-10-33 Piston rods
 Connecting rods 11-10-33 Crank and Flywheel shaft 11-10-33 Intermediate shaft
 Crank and Flywheel shafts, Material *off line* Identification Mark *Lloyds, M.A.B. 4.9.33. 15.*
 Intermediate shafts, Material Identification Marks
 Is this machinery duplicate of a previous case — If so, state name of vessel
 General Remarks (State quality of workmanship, opinions as to class, &c.)

This auxiliary machinery has been constructed under Special Survey according to the Rules & approved plans. & the materials & workmanship are sound & good.
 It has been tried in the shop under working conditions & found satisfactory.

This machinery has been satisfactorily installed in the vessel, examined under working conditions and found satisfactory.
 H.B. Forster,
 Newcastle-on-Tyne.
 11.1.34

The amount of Fee ... £ :
 Travelling Expenses (if any) £ :
 When applied for, 19...
 When received, 19...

L.R. Home
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 see nwc. 90909