

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 Yeovil Date, First Survey 11.10.33 Last Survey 24.11.1933
 Reg. Book. Yeovil Number of Visits 4

Single on the Twin Screw vessel "ROCK" Tons { Gross 250
 Triple
 Quadruple

Built at Hellum 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 Yeovil By whom made Petters Ltd. Contract No. T.O. 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 Petters 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 Mid. length breadth 3 3/8 Thickness parallel to axis shrunk
 as fitted 2 1/2 as per Rule 2 1/2 Mid. length thickness 1 3/8 Thickness around eyehole shrunk
 Flywheel Shaft, diameter 2 3/8 Intermediate Shafts, diameter as per Rule Thickness of cylinder liners shrunk
 as fitted 2 3/8 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 no 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 yes

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 yes

Generators, do they comply with the requirements regarding rating no 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 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 —

PLANS. Are approved plans forwarded herewith for Shafting 4.10.33 Receivers — Separate Tanks —
 (If not, state date of approval)

SHAFTING GEAR

The foregoing is a correct description,

Robertson P. P. Peters Manufacturer.



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Lloyd's Register Foundation

007714-007721-0211

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. Forster,
 Newcastle-on-Tyne.
 11.1.34*

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

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

Committee's Minute *FRI. 12 JAN 1934*
 Assigned *see nwc. 90909*

Date of writing
 No. in Series
 Reg. Book.
 Built at
 Owners
 Oil Engine
 Generators
 No. of Sets
 OIL ENG
 Maximum pressure
 Span of bearing
 Revolutions per minute
 Crank Shaft
 Flywheel Shaft
 Is a governor
 Are the cylinders
 Cooling Water
 Lubricating
 Air Compressor
 Scavenging
 AIR RECIPIER
 Can the internal
 Is there a drain
 High Pressure
 Seamless, lap welded
 Starting Air
 Seamless, lap welded
 ELECTRIC
 Pressure of supply
 If alternating current
 Has the Autom
 Generators, do
 are they over com
 s an adjustable
 are they so spaced
 LANS. Are
 PARE GE

11.9.28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)