

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15261.

Date of writing Report 29. 11. 1933 When handed in at Local Office 7. 12. 1933 Port of Southampton  
 Received at London Office  
 No. in Survey held at Southampton Date, First Survey 11. 10. 33 Last Survey 24. 11. 1933  
 Reg. Book. Southampton Number of Visits 4  
 on the Triple Screw vessel "ROCK" Tons { Gross 250  
 { Net  
 Built at Hebburn on Tyne By whom built Robt. Hawthorne Leslie & Co Yard No. 591 When built 1933  
 Owners Free Trade Wharf Co. Ltd. Port belonging to London  
 Oil Engines made at Jeemie By whom made Peters Ltd. Contract No. T.O. 804 When made 1933  
 Generators made at Chelmsford By whom made Crompton Parkinson Contract No. F.A. 246 When made 1933  
 No. of Sets 1 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 12 Total Capacity of Generators 19 Kilowatts.

**OIL ENGINES, &c.**—Type of Engines Peters Diesel 2 or 4 stroke cycle 2 Single or double acting Single  
 Maximum pressure in cylinders 700 lbs Diameter of cylinders 5 3/4" Length of stroke 8 1/2" No. of cylinders 2 No. of cranks 2  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 3/4" Is there a bearing between each crank Yes  
 Revolutions per minute 625 Flywheel dia. 33" Weight 480 lbs Means of ignition Compression Kind of fuel used Diesel oil  
 Crank Shaft, dia. of journals 3 1/4" Crank pin dia. 3 1/4" Crank Webs Mid. length breadth 4 5/8" Thickness parallel to axis shrunk  
 as fitted 3 1/4" Mid. length thickness 1 7/8" Thickness around eyehole  
 Flywheel Shaft, diameter 3 1/2" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners shrunk  
 as fitted 3 1/2" as fitted  
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Injected  
 Are the cylinders fitted with safety valves Yes 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 1 General type  
 Air Compressors, No. 1 No. of stages 1 Diameters 1 1/2" Stroke 1 1/2" Driven by Electric  
 Scavenging Air Pumps, No. 1 Diameter 1 1/2" Stroke 1 1/2" Driven by Electric

**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 Yes What means are provided for cleaning their inner surfaces None  
 Is there a drain arrangement fitted at the lowest part of each receiver Yes  
**High Pressure Air Receivers, No.** 1 Cubic capacity of each 100 Internal diameter 12" thickness 1/2"  
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules  
**Starting Air Receivers, No.** 1 Total cubic capacity 100 Internal diameter 12" thickness 1/2"  
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules  
**ELECTRIC GENERATORS:**—Type Compound wound Rip proof type; Crompton Parkinson  
 Pressure of supply 220 volts. Load 86.5 Amperes. **Direct or Alternating Current** Direct  
 If alternating current system, state frequency of periods per second 50  
 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. No, if not compound wound state distance between each generator None  
 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 4. 10. 33 Receivers Yes Separate Tanks Yes  
 (If not, state date of approval)

### SHAFTING AND GEAR

The foregoing is a correct description,

Robertshaw  
P.P. Peters Ltd Manufacturer.



007714-007721-0292

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 23 10 33 Covers 23 10 33 Pistons 23-10-33 Piston rods

Connecting rods 23-10-33 Crank and Flywheel shaft 11-10-33 Intermediate shaft ✓

Crank and Flywheel shafts, Material *Off Steel* Identification Mark *LL441 . 1825 CALP 29-9-33*

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 found to be good. It has been tried in the ship 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 ... .. £	When applied for,
Travelling Expenses (if any) £	When received,
	19
	19

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

FRI. 12 JAN 1934

Committee's Minute

Assigned *See No 90909*

Rpt. 13.  
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 Electric L  
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 System of  
 Pressure of  
 Direct or A  
 If alternating  
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 Generators.  
 are they over  
 Where more t  
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 Are all termin  
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 Position of  
 is the ventilat  
 if situated  
 are their axes  
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 Switchboard  
 are they protect  
 woodwork or of  
 are they constr  
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