

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13808.

Received at London Office

OCT 26 1937

Date of writing Report 25<sup>th</sup> Oct. 1937. When handed in at Local Office 25<sup>th</sup> Oct. 1937. Port of Bristol

No. in Survey held at Swanley Date, First Survey 13<sup>th</sup> July Last Survey 18<sup>th</sup> Oct 1937  
Reg. Book. Number of Visits 2

on the Single Twin Triple Quadruple Screw vessel Coxwold Tons { Gross \_\_\_\_\_ Net \_\_\_\_\_

Built at \_\_\_\_\_ By whom built \_\_\_\_\_ Yard No. \_\_\_\_\_ When built \_\_\_\_\_

Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

Oil Engines made at Swanley By whom made P. A. Lester & Co Contract No. 60/434 When made 1937

Generators made at do By whom made M. W. Walsley Ltd Contract No. 1107301 When made 5

No. of Sets one Engine Brake Horse Power 40 Nom. Horse Power as per Rule \_\_\_\_\_ Total Capacity of Generators 25 Kilowatts.

OIL ENGINES, &c.—Type of Engines 4 J.P. Aveling Injetor 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 750 lbs Diameter of cylinders 4.5 Length of stroke 5 1/2 No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 14 9/16 Is there a bearing between each crank No

Revolutions per minute 1200 Flywheel dia. 26 Weight 3100 lbs Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, dia. of journals as per Rule \_\_\_\_\_ as fitted 3 Crank pin dia. 3 Crank Webs Mid. length breadth 6 9/16 x 4 1/4 Thickness parallel to axis \_\_\_\_\_ shrunk \_\_\_\_\_ Thickness around eyehole \_\_\_\_\_

Flywheel Shaft, diameter as per Rule \_\_\_\_\_ as fitted 3 Intermediate Shafts, diameter as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Thickness of cylinder liners 5/16

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Grease

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Alumina

Cooling Water Pumps, No. one Pump type 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 Compound wound Sup proof

Pressure of supply 220 volts. Load 114 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 30/5/35 Receivers \_\_\_\_\_ Separate Tanks \_\_\_\_\_  
(If not, state date of approval)

SPARE GEAR \_\_\_\_\_

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\_\_\_\_\_

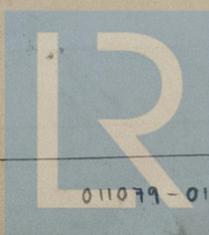
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The foregoing is a correct description,

Percept P. A. Lester & Co (Marine Sales Dept) Manufacturer.



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Lloyd's Register Foundation

011079-011088-0229

Dates of Survey while building  
 During progress of work in shops - - July 13. Oct. 18.  
 During erection on board vessel - - -  
 Total No. of visits 2.

Dates of Examination of principal parts—Cylinders 13/7/37 Covers 13/7/37 Pistons 13/7/37 Piston rods -

Connecting rods 13/7/37 Crank and Flywheel shaft 13/7/37 Intermediate shaft -

Crank and Flywheel shafts, Material Steel Identification Mark M 673 18/10/37 J.W.G.

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case If so, state name of vessel Approved 30/5/35

General Remarks (State quality of workmanship, opinions as to class, &c.)

All parts of this engine have been examined before being assembled  
 It was afterwards tested on the test bed with satisfactory results, coupled to a Mawdsley Generator 110 T 301  
 This set is stated to be for the Gool Shipbuilding Co. Gool No 330. (Listed Mar No M 1108)

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

The amount of Fee ... £ 3 : 3 : 0  
 Travelling Expenses (if any) £ : 5 : 0  
 When applied for, 25th Oct. 1937  
 When received, 4th Nov. 1937

John W. Gwynne  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Assigned  
 See Vol 7. E. 48713  
 FRI. 8 APR 1938

