

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13807

Received at London Office

OCT 26 1937

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

No. in Survey held at Suisley Date, First Survey 13th July Last Survey 18th October 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 Suisley By whom made P. A. Lester & Co. Contract No. 6/432 When made 1937

Generators made at 5 By whom made M. Massey & Co. Contract No. 110 T301 When made 1937

No. of Sets 1 Engine Brake Horse Power 40 Nom. Horse Power as per Rule _____ Total Capacity of Generators 25 Kilowatts.

OIL ENGINES, &c.—Type of Engines 4 I.P. Airless Injection 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 75 lb. 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 310 lb. Means of ignition Compression Kind of fuel used Shut down

Crank Shaft, dia. of journals 3 as per Rule _____ as fitted _____ Crank pin dia. 3 Mid. length breadth 1 9/16 x 1 1/2 Thickness parallel to axis _____ Crank Webs _____ Mid. length thickness 1 3/4 shrunk _____ Thickness around eyehole _____

Flywheel Shaft, diameter 3 as per Rule _____ as fitted _____ 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 From

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

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 Compound wound, drip 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 _____ Are the lubricating arrangements of the generators as per Rule _____

PLANS. Are approved plans forwarded herewith for Shafting 30/5/35 Receivers _____ Separate Tanks _____
(If not, state date of approval)

SPARE GEAR _____

The foregoing is a correct description,

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



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Lloyd's Register Foundation

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Dates of Survey while building { During progress of work in shops - - July 13. October 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 672 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 Approval 30/5/35 J.W.G.

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 Maxwell's Generator 110 T 302.
 This set is stated to be for the Coole Steamship Co. spec N° 329 (Listed under N° M 1109)

Im. 6.31—Transfer. (The Survivors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 3 : 3 : 6
 Travelling Expenses (if any) £ : 5 : 4
 When applied for, 6.25.37
 When received, 4.12.37

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

Committee's Minute FRI. 8 APR 1938
 Assigned See Incl J.E. 48713

