

4c. **REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.** No. 13605

Received at London Office 23 JAN 1937

Date of writing Report 19 When handed in at Local Office 19 Port of BRISTOL

in Survey held at DURLEY Date, First Survey 15th Sept. 1936 Last Survey 15th Jan. 1937
 Book. Number of Visits 4

on the Single Twin Triple Quadruple Screw vessel Tons { Gross _____ Net _____

built at _____ By whom built _____ Yard No. _____ When built _____

owners _____ Port belonging to _____

Engines made at Gunsley By whom made A. G. Lester & Co. Contract No. 382465 When made 1937

Generators made at _____ By whom made Messrs. Vickers Contract No. 23847B When made _____

No. of Sets 14 Engine Brake Horse Power 14 Nom. Horse Power as per Rule _____ Total Capacity of Generators 15 Kilowatts.

ENGINES, &c.—Type of Engines C.E. Ailers Injection 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 4.275 No. of cylinders Two No. of cranks Two

Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge 4 1/16 Is there a bearing between each crank Yes

Revolutions per minute 1200 Flywheel dia. 23" Weight 684 lbs Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 4.0 as fitted 2.775 Crank pin dia. 2.75 Crank Webs Mid. length breadth 3.5 Thickness parallel to axis _____ shrunk _____ Thickness around eyehole _____

Flywheel Shaft, diameter as per Rule _____ as fitted 2.35 Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners .246

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Foam + oil pump

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

Cooling Water Pumps, No. _____ 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

Pressure of supply 220 volts. Load 32 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 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 _____ 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 Yes

PLANS. Are approved plans forwarded herewith for Shafting No 24/10/34 Receivers _____ Separate Tanks _____

SHAFTING AND GEAR _____

The foregoing is a correct description,

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



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W81-0092

Dates of Survey while building
 During progress of work in shops - - ¹⁹³⁶ Sept. 15. ¹⁹³⁷ Dec. 22. Jan. 18. 15 - 4 visits.
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts—Cylinders 15/9/36 Covers 15/9/36 Pistons 15/9/36 Piston rods ✓

Connecting rods 15/9/36 Crank and Flywheel shaft 15/9/36 Intermediate shaft

Crank and Flywheel shafts, Material *Steel* Identification Mark *LLOYDS TEST M 525 12/1/37 J.W.G.*

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.)

All parts of this engine have been examined before being assembled & found satisfactory.
 It was afterwards tested on the test bed coupled to a Motor
 Vesta Locomotive No 23847/B.

This set is stated to be for Messrs Vickers Armstrongs' yard No 726.

The amount of Fee ... £ 3 : 3
 Travelling Expenses (if any) £ - : -
 When applied for, 22nd Jan. 1937.
 When received, 20/2

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

Committee's Minute TUE 16 FEB 1937

Assigned See minute on Bm 2645

Im. 631 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

