

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 58006

Date of writing Report 19 When handed in at Local Office 13 2 1937 Port of Glasgow Received at London Office 17 FEB 1937  
 No. in Survey held at Glasgow Date, First Survey 17 6 36 Last Survey 3 2 1937  
 Reg. Book. Number of Visits 40  
 on the <sup>Single</sup> ~~Twin~~ <sup>Triple</sup> ~~Quadruple~~ Screw vessel "CAMEO"  
 Tons { Gross 945.51  
 Net 504.34  
 Built at Glasgow By whom built A. J. Inglis Yard No. 979P. When built 1937  
 Owners Wm. Robertson Port belonging to Glasgow  
 Oil Engines made at Glasgow By whom made Harland & Wolff Ltd. Contract No. 979 When made 1937  
 Generators made at Belfast By whom made Harland & Wolff Ltd. Contract No. 979 When made 1937  
 No. of Sets One Engine Brake Horse Power 74.7 Nom. Horse Power as per Rule 21.4 Total Capacity of Generators 50 Kilowatts.

OIL ENGINES, &c.—Type of Engines *Enclosed tank type, airless injection* 2 or 4 stroke cycle 2 Single or double acting S.A.  
 Maximum pressure in cylinders 800 lb. Diameter of cylinders 135 mm. Length of stroke 220 mm. No. of cylinders 4 No. of cranks 4  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 149 mm. Is there a bearing between each crank yes  
 Revolutions per minute 700 Flywheel dia. 640 mm. Weight 304 Kgs. Means of ignition Compression Kind of fuel used Diesel oil.  
 Crank Shaft, dia. of journals as per Rule 81.3 mm. as fitted 110 Crank pin dia. 110 mm. Crank Webs Mid. length breadth 128 mm. Mid. length thickness 42.5" Thickness parallel to axis shrunk Thickness around eye hole  
 Flywheel Shaft, diameter as per Rule 81.3 mm. as fitted Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 8 mm. to 5.5 mm.  
 Is a governor or other arrangement fitted to prevent racing of the engine when decelerated yes Means of lubrication forced & gravity  
 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 @ 6 ton per hour. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Ship's System.  
 Lubricating Oil Pumps, No. and size 1 @ 3.66 ton per hour.  
 Air Compressors, No. No. of stages Diameters Stroke Driven by  
 Scavenging Air Pumps, No. One Diameter Rotary Stroke 11.7 cu. m. per min. Driven by generator by line

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 Inspection done  
 Is there a drain arrangement fitted at the lowest part of each receiver yes  
 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. One Total cubic capacity 88 litres Internal diameter 1'-6" thickness 3/8"  
 Seamless, lap welded or riveted longitudinal joint Riveted Material Steel Range of tensile strength Ends 26/30 " Working pressure by Rules 356 lb/sq. in.

ELECTRIC GENERATORS:—Type Protected.  
 Pressure of supply 222 volts. Load 225 Amperes. Direct or Alternating Current Direct current  
 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 yes Receivers yes Separate Tanks yes  
 (If not, state date of approval)

SPARE GEAR

as per attached list.

The foregoing is a correct description,  
 For HARLAND AND WOLFF, LIMITED.

Wm. J. Wright

Manufacturer.

Finnlestone Secretary

W1024-0139



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Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - - }  
Total No. of visits

SEE ACCOMPANYING MACHINERY REPORT.

Dates of Examination of principal parts—Cylinders 26-11-36 Covers 20-11-36 Pistons 26-11-36 Piston rods ✓

Connecting rods 1-12-36 Crank and Flywheel shaft 10-11-36 Intermediate shaft

Crank and Flywheel shaft, Material steel Identification Mark 344 P.7. Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case? No If so, state name of vessel ✓

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

This engine has been built under Special Survey and in accordance with the approved plans and the Rules of this Society.

The materials and workmanship are good.

The engine has been tried together with the dynamo under full load with satisfactory results. It has now been efficiently installed in position on board the vessel.

13/2/37

The amount of Fee ... £ ✓

Travelling Expenses (if any) £ :

When applied for,

19

When received,

19

P. Fitzgerald.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 16 FEB 1937

Assigned

SEE ACCOMPANYING MACHINERY REPORT.



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