

Reported in Ann. Rpt. 13351

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 10858  
MAY 1935

Received at London Office

t. 4c.

Date of writing Report 25/5/35 When handed in at Local Office 25/5/35 Port of TRIESTE

Survey held at Monfalcone Date, First Survey Mar 28 Last Survey May 16 1935  
Number of Visits five

8366 on the Single Triple Quadruple Screw vessel *Amis* Tons { Gross 8030 Net 4783

built at Monfalcone By whom built Cant. Rinn. dell' Adriatico Yard No. 429 When built 1935

owners Anglo Saxon Petroleum Co. Ltd. Port belonging to London

Engines made at Amsterdam By whom made Merris Brouhout Engt No. 7176 When made 1934

Generators made at Inverland By whom made Inverland Forge & C. Engt No. F2777 When made 1934

No. of Sets 1 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 12 Total Capacity of Generators 16 Kilowatts.

TYPE OF ENGINES, &c.—Type of Engines Brouhout Diesel Eng. H.S.2 2 or 4 stroke cycle 2 Single or double acting *single*

Maximum pressure in cylinders 35 kg/cm<sup>2</sup> Diameter of cylinders 210 mm Length of stroke 275 mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm Is there a bearing between each crank —

Revolutions per minute 390 Flywheel dia. 1100 mm Weight 1240 kg Means of ignition *Compass* Kind of fuel used  *Diesel oil*

Crank Shaft, dia. of journals as per Rule *appr.* as fitted 110 mm Crank pin dia. 110 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis —

Flywheel Shaft, diameter as per Rule — as fitted — Intermediate Shafts, diameter as per Rule *appr.* as fitted 70 mm Thickness of cylinder liners *no liner*

Is a governor or other arrangement fitted to prevent racing of the engine when declutched *yes* Means of lubrication *forced*

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

Cooling Water Pumps, No. 1 a 3 1/4 Is the sea suction provided with an efficient strainer which can be cleared within the vessel —

Lubricating Oil Pumps, No. and size *gear wheel pump. Capacity 6 liter. per min.*

Air Compressors, No. — No. of stages — Diameters — Stroke — Driven by —

Scavenging Air Pumps, No. *crank case* Diameter — Stroke — Driven by —

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 *no* What means are provided for cleaning their inner surfaces *plugs*

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. 1 Total cubic capacity 75 liter. Internal diameter 250 mm thickness 7 mm

Seamless, lap welded or riveted longitudinal joint *seamless* Material *PM1* Range of tensile strength 44-50 kg Working pressure by Rules 46.6 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type *Protected*

Pressure of supply 110 volts. Load 146 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. —, 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 11/4/34 Receivers 11/4/34 Separate Tanks

SPARE GEAR 1 cylinder head. 1 Piston. 30 Piston rings. 1 Crank pin bearing. 2 gudgeon pin

2 locking pins. 2 locking springs. 2 Roller plates. 2 fuel deliv. pipes. 1 spiral spring for

fuel pump. 1 fuel cam. 1 cooling pump impeller. 1 starting air valve. 1 fuel valve

complete. 4 spiral springs. 2 studs for main bearings. 6 studs for cyl. head. 1

spiral spring for inlet valve with bolt. 8 ball bearings of different size

and marks. 1 fuel flange and bush. 1 cooling pump impeller shaft

The foregoing is a correct description.

Manufacturer.



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W 1123 - 0300

Dates of Survey while building { During progress of work in shops - - } See Amsterdam Report No 13351  
 { During erection on board vessel - - - } 1935 Mar 28. Apr 16. May 9. 13. 16.  
 Total No. of visits five

Dates of Examination of principal parts—Cylinders 7/2 & 3/9/34 Covers 3/9 & 13/9/34 Pistons 3/9/34 Piston rods —

Connecting rods 17/6 & 3/9/34 Crank and Flywheel shaft 13/5, 9/8, 3/9/34 Intermediate shaft 9/8/34

Crank and Flywheel shafts, Material S.M.S Identification Mark No 1892 CHLP 2.9.34

Intermediate shafts, Material S.M.S Identification Marks No 259 KK 25.5.34

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 I.C. Engine has been constructed under special survey in accordance with the requirements of the Rules, the Surveyor's letters and the approved plans. It has been fitted on board this vessel as an electric generator motor, tested under full working condition and found in order.

Im. 9.28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ Five 231- : 

When applied for,	257 19 35
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Travelling Expenses (if any) £  : 

When received,	June 15 1935
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TUE 4 JUN 1935

*A. P. P. P. P.*  
 Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

See Tri. J.E. 10858



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