

Newcastle-on-Tyne 87673

24 OCT 1931

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12232

21 APR 1931

Date of writing Report 14 April 1931 When handed in at Local Office

Received at London Office

in Survey held at AMSTERDAM

Port of AMSTERDAM

Book.

Date, First Survey 4 November 30. Last Survey 2 April 1931

Number of Visits 7

Single  
on the Twin  
Triple  
Quadruple

XXXXXXXXXX

KROMHOUT OIL ENGINE NO. 5994, type HS-2

By whom built Hawthorn Leslie &amp; Co. Yard No. 580 When built -

Anglo Saxon Petroleum Co., Ltd.

Port belonging to London

Engines made at Amsterdam

By whom made N.V. Kromhout Motoren Fabriek

Contract No. -

When made 1931

Generators made at Sunderland

By whom made Sunderland Forge &amp; Eng. Co.

Contract No. -

When made 1930

of Sets 1 Engine Brake Horse Power 26

Nom. Horse Power as per Rule 7

Total Capacity of Generators 16 Kilowatts.

ENGINES, &amp;c.—Type of Engines Kromhout oil engine 2 or 4 stroke cycle Single or double acting

Mean pressure in cylinders 35 kg/cm<sup>2</sup> Diameter of cylinders 210 mm Length of stroke 245 mm No. of cylinders 1 No. of cranks 1

of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm

Revolutions per minute 390 Flywheel dia. 1100 mm Weight 1180 kg Is there a bearing between each crank -

Crank Shaft, dia. of journals as per Rule 110 mm Crank pin dia. 110 mm Means of ignition Compression Kind of fuel used Diesel oil

Crank Webs Mid. length breadth 150 mm Thickness parallel to axis -

Crank Webs Mid. length thickness 62 mm Thickness around eye hole 7 mm

Crank Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners -

Governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced

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. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size 110 &amp; 2 fuel for cylinders and one for bearings, crank pin

Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Suctioning Air Pumps, No. - Diameter - Stroke - Driven by -

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

The internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Hand tools

Are a drain arrangement fitted at the lowest part of each receiver Yes

Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

Less, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Suctioning Air Receivers, No. 2 Total cubic capacity 150 L Internal diameter 250 mm thickness 4 mm

Less, lap welded or riveted longitudinal joint Hand tools Material Steel Range of tensile strength 24,500 Working pressure by Rules 4.6 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type Synchronous Type, Eng. Co. Ltd.

Voltage of supply 110 volts. Load 145 Amperes. Direct or Alternating Current Direct

Alternating current system, state frequency of periods per second -

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

They over compounded 5 per cent. Yes, if not compound wound state distance between each generator -

Adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

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

ANS. Are approved plans forwarded herewith for Shafting Receivers in London Separate Tanks Yes

RE GEAR 1 set of piston rings, 1 set of cylinder covers, 1 set

bottom end beams, bolts, 1 gudgeon pin, 2 steel slots,

fuel pumps complete, 2 fuel jets, 1 combustion chamber,

bearings, valves for fuel pump and cooling pump, studs for

main bearing, keys, various packings.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register  
Foundation

007529-007535-0753



Dates of Survey while building { During progress of work in shops - - 4/11. 19/11. 3/12. 10/1. 13/1. 24/2. 2/4  
During erection on board vessel - - -  
Total No. of visits 7

Dates of Examination of principal parts—Cylinders 4/11 - 29/12 Covers 4/11 - 29/12 Pistons 4/11 - 29/12 Piston rods 4/11 - 29/12  
Connecting rods 4/11 - 4/12 Crank and Flywheel shaft 4/11 - 29/12 Intermediate shaft 4/11 - 29/12

Crank and Flywheel shafts, Material *Steel* Identification Mark *Lloyd's M. K. CR-3145*  
Intermediate shafts, Material *L* Identification Marks *L*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Ing. CR. 5435 And Reg. CR. 121*

General Remarks (State quality of workmanship, opinions as to class, &c.)  
*The engine has been constructed in accordance with the Rules, Secretary's letter and approved plans. All material tested as required and found good.  
The engine has been tested under full working condition on test bench and good.*

*The engine has been forwarded to Messrs. R. W. Hawthorn, Leslie & Lth  
St. Peter Works, Newcastle-on-Tyne for the "Gates"*

*This engine has not been securely fitted on board the vessel, tried under full working conditions & found satisfactory*

The amount of Fee £180/-  
Travelling Expenses (if any) £5/-  
When applied for, 19...  
When received, 27. 10. 1931

Committee's Minute  
Assigned  
TUE. 27 OCT 1931  
*See F. G. Rpt.*

*A. V. Bennett*  
Surveyor to Lloyd's Register of Shipping.  
*Fred. A. Ferguson*