

See Sud Rpt 20593 dated 6/46

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 10698

15 JUL 1927

Received at London Office

26 OCT 1927

of writing Report 7th July 1927 When handed in at Local Office

Port of **AMSTERDAM**

in Survey held at **AMSTERDAM**

Date, First Survey 11th Aug. 1926 Last Survey 20th June 1927.

Number of Visits 7

on the ^{Single} ~~Form~~ **"KATOORA"**
~~Triple~~ **KROMHOUT OIL ENGINE NO. 3774, type 2 ER II**

Tons { Gross 337
Net 149

built at **Greenock.**

By whom built **Messrs G. Brown & Co**

Yard No. 155 When built 1924-

owners **Adelaide Steamship Co.**

Port belonging to **Melbourne.**

Engines made at **Amsterdam** By whom made **Kromhout Motoren Fabriek** Contract No. - When made 1927

Generators made at - By whom made - Contract No. - When made -

of Sets / Engine Brake Horse Power **60** Nom. Horse Power as per Rule **17** Total Capacity of Generators - **34** Kilowatts.

ENGINES, &c. Type of Engines **Kromhout Oil Engine** 2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders **18 1/2 lb. per sq. in.** Diameter of cylinders **245 mm.** Length of stroke **245 mm.** No. of cylinders **2** No. of cranks **2**

Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge **288 mm.** Is there a bearing between each crank **Yes**

Revolutions per minute **390** Flywheel dia. **1100 mm.** Weight **700 kg.** Means of ignition **ignition plate** Kind of fuel used **Cresol oil**

Crank Shaft, dia. of journals as per Rule **as per Rule** Crank pin dia. **95 mm.** Crank Webs Mid. length breadth **130 mm.** Thickness parallel to axis **20 mm.**

as fitted **95 mm.** Mid. length thickness **40 mm.** Thickness around eyehole

Wheel Shaft, diameter as per Rule **as per Rule** Intermediate Shafts, diameter as per Rule **as per Rule** Thickness of cylinder liners **as per Rule**

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

Are the cylinders fitted with safety valves **No** Are the exhaust pipes and stemmers water cooled or lagged with non-conducting material **N.C.M.**

Working Water Pumps, No. **One** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **Yes**

Lubricating Oil Pumps, No. and size **One (Alex Friedman)**

Compressors, No. **<** No. of stages **<** Diameters **<** Stroke **<** Driven by **<**

Sucking Air Pumps, No. **<** Diameter **<** Stroke **<** Driven by **<**

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

Are 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 **<**

Are the joints, lap welded or riveted longitudinal joint **<** Material **<** Range of tensile strength **<** Working pressure by Rules **<**

Working Air Receivers, No. **2** Total cubic capacity **2 x 45 Ltrs** Internal diameter **250 mm.** thickness **4 mm.**

Are the joints, lap welded or riveted longitudinal joint **Seamless** Material **Steel** Range of tensile strength **20/31 tons** Working pressure by Rules **22 1/2 lb. per sq. in.**

ELECTRIC GENERATORS: Type **compound wound with shunt governor**

Pressure of supply **220** volts. Load **144** Amperes. Direct or Alternating Current **Direct**

Is it an 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 **<**

Do the generators, do they comply with the requirements regarding rating **<** are they compound wound **Yes**

Do they over compound 5 per cent. **<** , if not compound wound state distance between each generator **<**

Are there 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 **<**

Are approved plans forwarded herewith for Shafting **Retained** Receivers **to London** Separate Tanks **Office**

ARE GEAR **1 Judgem pin, 2 steel Judgem Flats, 2 bottom end bolts and nuts and brass complete, 2 main beam. Studs and nuts, 1 set**

1 couple; bolts, one combustion and one fuel pump complete, valve

fuel pump, 12 piston rings, 2 governor springs, 4 fuel jets, various lengths

pipes, valves and Guts for cooling pump, 1 piston complete with

nuts, 2 steel ignition plates.

The foregoing is a correct description,

V. KROMHOUT MOTOREN FABRIEK

D. GOEDKOOP Jr.

Manufacturer.



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Lloyd's Register Foundation

008855-008862-0039

Dates of Survey while building
 During progress of work in shops - - 11/8. 14/9. 15/10. 24/11. 13/12. 20/1. 27/1. 27/1.
 During erection on board vessel - - -
 Total No. of visits 7

Dates of Examination of principal parts - Cylinders 11/8 - 21/12 Coners 11/8 - 21/12 Pistons 11/8 - 21/12 Piston rods L
 Crank and Flywheel shaft 11/8 - 24/11 Intermediate shaft L

Connecting rods 11/8 - 24/11 Identification Marks L
 Crank and Flywheel shaft, Material Steel Identification Marks L Intermediate shafts, Material L Identification Marks L

Is this machinery duplicate of a previous case? If so, state name of vessel *See Enigma No. 2956 and Rep. No. 9723.*

General Remarks (State quality of workmanship, opinions as to class, &c.)
The machinery has been made in accordance with the approved plans. Secretary's letters and Rules, all material tested as required and workmanship good. Machinery tests under full working conditions in best and good.

Date of writing
 No. in Survey
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1m, 7.30 - Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 180. - } When applied for, 19
 Travelling Expenses (if any) £ 8. - } When received, 20th Aug. 1924

F. N. Bennett
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 25 OCT 1927**
 Assigned *See Gen. Rpt. No. 18783* *WMM*



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