

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10698

15 JUL 1927

26 OCT 1927

Received at London Office

A M S T E R D A M

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

19 Port of

in Survey held at A M S T E R D A M

Date, First Survey 11th Aug. '26 Last Survey 20th June 1927.

Number of Visits 7

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

 Tons { Gross 334
 Net 149

Built at Greenock.

By whom built Messrs G. Brown & Co Ltd

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

 Minimum pressure in cylinders 18 kg/cm² Diameter of cylinders 245 mm Length of stroke 245 mm No. of cylinders 2 No. of cranks 2

 No. of 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 150 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*
 as fitted

 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 silencers water cooled or lagged with non-conducting material *Yes*

 Cooling 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. *2* No. of stages *2* Diameters *2* Stroke *2* Driven by *2*

 Evolving Air Pumps, No. *2* Diameter *2* Stroke *2* Driven by *2*

 RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule *2*

 Are the internal surfaces of the receivers be examined *2* What means are provided for cleaning their inner surfaces *2*

 Where a drain arrangement fitted at the lowest part of each receiver *2*

 High Pressure Air Receivers, No. *2* Cubic capacity of each *2* Internal diameter *2* thickness *2*

 Seamless, lap welded or riveted longitudinal joint *2* Material *2* Range of tensile strength *2* Working pressure by Rules *2*

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

 Seamless, lap welded or riveted longitudinal joint *Seamless* Material *Steel* Range of tensile strength *20/21 tons* Working pressure by Rules *22 kg/cm²*

 ELECTRIC GENERATORS:—Type *Compound wound with Shunt governor*

 Voltage of supply *220* volts. Load *174* Amperes. Direct or Alternating Current *Direct*

 Alternating current system, state frequency of periods per second *2*

 Are the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off *2*

 Generators, do they comply with the requirements regarding rating *2* Are they compound wound *Yes*

 Are they over compounded 5 per cent. *2* , if not compound wound state distance between each generator *2*

 Are adjustable regulating resistance fitted in series with each shunt field *2* Are all terminals accessible, clearly marked, and furnished with sockets *2*

 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched *2* Are the lubricating arrangements of the generators as per Rule *2*

 Are approved plans forwarded herewith for Shafting *Receiving* Receivers *in London* Separate Tanks *Office*
 (If not, state date of approval) *1.6.26. Sunday 1.6.26*

 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
coupler, bolts, one combustion and one fuel pump complete, valves
fuel pump, 12 piston rings, 2 governor springs, 4 fuel jets, valves on the
pipes, valves and flange for cooling pump, 1 piston complete with
rod, 2 steel ignition plates.

 The foregoing is a correct description,
 V. KROMHOUT MOTOREN FABRIEK

D. GOEDKOOP Jr.

Manufacturer.



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008855-008862-0039

Dates of Survey while building { During progress of work in shops - - } 11/8. 14/9. 15/10. 24/11. 21/12. 13/1. 29/1. 28.
 { During erection on board vessel - - - }
 Total No. of visits 4

Dates of Examination of principal parts—Cylinders 11/8 - 21/12 Coners 11/8 - 21/12 Pistons 11/8 - 21/12 Piston rods 2
 Connecting rods 11/8 - 24/11 Crank and Flywheel shaft 11/8 - 24/11 Intermediate shaft 2
 Identification Marks 2

Crank and Flywheel shaft, Material Steel Identification Mark 11/8 - 24/11 Intermediate shafts, Material 2
 Is this machinery duplicate of a previous case 11/8. If so, state name of vessel 11/8 - 24/11 and 11/8 - 24/11.

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

The machinery has been made in accordance with the approved plans.
 Security, letters and Pouches, All material tested as required and
 workmanship good.
 Machinery tested under full working condition in best and good.

1m. 7.20—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 180. -
 Travelling Expenses (if any) £ 8. -
 When applied for, 19...
 When received, 2nd Aug. 1924

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

Committee's Minute GLASGOW 25 OCT 1927
 Assigned See G. R. Rpt. No. 18783



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