

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10679

Received at London Office

15 JUL 1927

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

Port of AMSTERDAM

26 OCT 1927

No. in Survey held at AMSTERDAM Reg. Book.

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

Number of Visits 8

on the ~~Steam~~ <sup>Single</sup> ~~Triple~~ <sup>"KATOORA"</sup> ~~Quadruple~~ KROMHOUT OIL ENGINE NO. 3775, type ER III

Tons { Gross 334 Net 149

Built at Greenock

By whom built <sup>Auxiliary</sup> Messrs G. Brown & Co Ltd

Yard No. 155 When built 1924

Owners Adelaide Steamship Co.

Port belonging to Melbourne.

Oil 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 -

No. of Sets 1 Engine Brake Horse Power 40 Nom. Horse Power as per Rule 11 Total Capacity of Generators 25 Kilowatts.

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

Maximum pressure in cylinders 18 kg/cm<sup>2</sup> Diameter of cylinders 300 mm Length of stroke 310 mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 330 mm Is there a bearing between each crank *Yes*

Revolutions per minute 350 Flywheel dia. 1500 mm Weight 1000 kg Means of ignition *ignition plates* Kind of fuel used *Crude oil*

Crank Shaft, dia. of journals as per Rule *as per Rule* as fitted *110 mm* Crank pin dia. 110 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis *Solid* Mid. length thickness 40 mm Thickness around eyehole

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

Is 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 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 (Allen Friedman)*

Air Compressors, No. *1* No. of stages *1* Diameters *1* Stroke *1* Driven by *1*

Scavenging Air Pumps, No. *1* Diameter *1* Stroke *1* Driven by *1*

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule *1*

Can the internal surfaces of the receivers be examined *1* What means are provided for cleaning their inner surfaces *1*

Is there a drain arrangement fitted at the lowest part of each receiver *1*

High Pressure Air Receivers, No. *1* Cubic capacity of each *1* Internal diameter *1* thickness *1*

Seamless, lap welded or riveted longitudinal joint *1* Material *1* Range of tensile strength *1* Working pressure by Rules *1*

Starting Air Receivers, No. *one* Total cubic capacity *45 Liter* Internal diameter *250 mm* thickness *1/2 in*

Seamless, lap welded or riveted longitudinal joint *Seamless* Material *Steel* Range of tensile strength *28/32 tons* Working pressure by Rules *4.4 kg/cm<sup>2</sup>*

ELECTRIC GENERATORS:—Type *Compound wound*

Pressure of supply 220 volts. Load 113.6 kg Amperes. Direct or Alternating Current *Direct*

If alternating current system, state frequency of periods per second *1*

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off *1*

Generators, do they comply with the requirements regarding rating *1* are they compound wound *Yes*

are they over compounded 5 per cent. *1*, if not compound wound state distance between each generator *1*

is an adjustable regulating resistance fitted in series with each shunt field *1* Are all terminals accessible, clearly marked, and furnished with sockets *1*

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched *1* Are the lubricating arrangements of the generators as per Rule *1*

PLANS. Are approved plans forwarded herewith for Shafting *Approved by Receivers London* Separate Tanks *Office*

## SPARE GEAR

*1 gudgeon pin and steel shoe for same; 1 full pump complete; 1 set of crank bearing bronze; 1 set of main bearing bolts and nuts; 1 set of bottom end bronze, bolts and nuts; 1 piston with rings complete; 6 piston rings; various lengths of pipes; 1 combustion chamber complete. 2 fuel jets; 1 set of valves for cooling pump.*

The foregoing is a correct description,  
N.V. KROMHOUT MOTOREN FABRIEK  
P. GOEDKOOP JR

Manufacturer.



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Dates of Survey while building  
 During progress of work in shops - - 11/8, 14/9, 15/10, 24/11, 21/12, 15/1, 15/1, 20/6  
 During erection on board vessel - - -  
 Total No. of visits 8

Dates of Examination of principal parts—Cylinders 11/8 - 21/12 Covers 11/8 - 21/12 Pistons 11/8 - 21/12 Piston rods <

Connecting rods 11/8 - 14/11 Crank and Flywheel shaft 11/8 - 13/1 Intermediate shaft <

Crank and Flywheel shaft, Material Steel Identification Marks 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100  
 Identification Marks < 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.)

The engine has been made in accordance with the approved plans, Seely's letters and Books, all material tested as required and workmanship good.  
 Machinery tested under full working condition on test bed and good.

1m, 7, 28—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) £ 0.  
 When applied for, 19...  
 When received, 24<sup>th</sup> Dec. 1927.

*F. N. Bennet*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 25 OCT 1927 *WDM*

Assigned See Grk. Rph. No. 18783



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