

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12161

JAN 1931

Received at London Office

Date of writing Report 10 January 1931. When handed in at Local Office 19 Port of AMSTERDAM

Location in Survey held at AMSTERDAM Date, First Survey 11 June Last Survey 17 December 1930

Number of Visits 9

on the <sup>Single</sup> ~~Twin~~ Screw vessel "A POLLONIA" Tons { Gross - Net -

built at Rotterdam By whom built N.V. Werf v/h. Ryke & Co. Yard No. 202 When built 1930

owners Anglo Saxon Petroleum Co. Port belonging to London type HS-2

Oil Engines made at Amsterdam By whom made N.V. Kromhout Motoren Fabriek Contract No. 5735, When made 1930

Generators made at Slikerveer By whom made Smit Contract No. When made 1930

No. of Sets 1 Engine Brake Horse Power 26/30 Nom. Horse Power as per Rule 8 Total Capacity of Generators 12 Kilowatts.

TYPE OF ENGINES, &c. Type of Engines Steam engine 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 245 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 1180 kg Means of ignition Compound and Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 110 mm Crank pin dia. 110 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis } 4 mm

as fitted 110 mm Mid. length thickness 62 mm Thickness around eyehole } 4 mm

Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - 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 Grease lubrication

Are 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 1 - 2 feeds and 1 for bearings and crank pin

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

Scavenging Air Pumps, No. - 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 Yes What means are provided for cleaning their inner surfaces Hand hole

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. 2 Total cubic capacity 200 L Internal diameter 325 mm thickness 8 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 22/32 ton Working pressure by Rules 43 kg

ELECTRIC GENERATORS:—Type Small Synchronous

Pressure of supply 110 volts. Load 109 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. Yes, 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 Relays Receivers to London Separate Tanks Yes

SPARE GEAR 1 set of piston rings, studs for cylinder cover, 1 set of bottom end beam and bolts, 2 gudgeon pins, 3 steel slots,

fuel pump complete, 2 feed jets, 1 combustion chamber,

springs and valves for fuel and cooling pumps, studs for main bearing keels, various packings.

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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W329-0028

Dates of Survey while building  
 During progress of work in shops - 11/6, 4/8, 22/8, 23/8, 24/8, 29/8, 3/9, 26/11, 14/12  
 During erection on board vessel - - - - -  
 Total No. of visits 9

Dates of Examination of principal parts—Cylinders 4/8 - 3/9 Covers 4/8 - 3/9 Pistons 4/8 - 3/9 Piston rods -  
 Connecting rods 24/11 - 14/12 Crank and Flywheel shaft 11/6 - 24/8 Intermediate shaft -

Crank and Flywheel shafts, Material *Steel* Identification Mark

Intermediate shafts, Material *L* Identification Marks *Lloyd's T.P. no: 444. 13.5.*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Amst Rep. no: 12128. 25411.*

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

*The engine has been constructed in accordance with the Rules, Secretary's letters and approved plans. All material tested as required and workmanship good. The engines have been tested under full working conditions on test benches and good.*

*The engine will be forwarded to Rotterdam, to be fitted in m.m. Pyker, Co's. office no: 202. Rotterdam.*  
*H. N. Beumer*

To Amst Rep  
 1m, 9, 28 - Transfer.  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... ..	£ 180. -	When applied for,	19...
Travelling Expenses (if any)	£ 8. 25	When received,	16. 1. 19 31

*H. N. Beumer*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Assigned  
 TUE, 18 AUG 1931  
*See 78. Rpt.*

