

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 12056

21 OCT 1930

Received at London Office

pt. 4c.

Date of writing Report 16th Oct. 1930 When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey 11th June

Last Survey 9th Oct. 1930.

Reg. Book.

Number of Visits 7

on the Single  
Twin  
Triple  
Quadruple  
Screw vessel N.V. WERF GUSTO YARD NO. 652

Tons { Gross -  
Net -

Built at Schiedam

By whom built N.V. Werf Gusto v/h. fa. A.F. Yard No. 652 When built 1930

Owners Angle Saxon Petroleum Co. Ltd.

Port belonging to London type HS-2

Oil Engines made at Amsterdam

By whom made N.V. Kromhout Motoren Fabriek Smit Contract No. 5732, When made 1930

Generators made at Slikkerveer

By whom made Electrotechnische Industrie Contract No. - When made 1930

No. of Sets 1 Engine Brake Horse Power 26/31 Nom. Horse Power as per Rule 8 Total Capacity of Generators 12 Kilowatts.

IL ENGINES, &c. Type of Engines Kromhout til Engin 2 stroke cycle Single or double acting

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 Lamp and air Kind of fuel used Solar 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 6.5 mm Mid. length thickness 6.5 mm Thickness around eyehole 10 mm

Flywheel Shaft, diameter as per Rule 1 Intermediate Shafts, diameter as per Rule 1 Thickness of cylinder liners 1

Is a governor or other arrangement fitted to prevent raving of the engine when declutched Yes Means of lubrication forced lubrication for cylinders, crankpin, and bearings

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 Yes

Lubricating Oil Pumps, No. and size 1 for cylinders (2 feeds) and 1 for bearings, crankpin. (circulation system)

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 Yes

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

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

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. 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 28/32 ton Working pressure by Rules 30 kg/cm<sup>2</sup>

ELECTRIC GENERATORS: Type Smit Slikkerveer

Pressure of supply 110 volts. Load 109 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 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, Receivers, and Tanks. (If not, state date of approval) 1. 3. 30. 2. 2. 8. 30.

SPARE GEAR

1 set of piston rings, 1 set of exhaust cone, 1 set of bottom end bronze and bolts complete, 3 gudgeon pins, 3 steel shims for same, 1 fuel pump complete, 2 fuel jets, 2 fuel injectors, 1 combustion chamber, delivery pipe fuel pump, 6 springs for fuel pump valves, 2 valves for crank case, valves for cooling pump, 1 set of main bearing keys, various packings.

The foregoing is a correct description,  
N.V. KROMHOUT MOTOREN FABRIEK  
D. Goedkoop Jr.

Manufacturer.



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011011-011023-0348



4<sup>c</sup> 12054.

Dates of Survey while building  
During progress of work in shops - -  
During erection on board vessel - - -  
Total No. of visits

11/6 11/6 21/6 22/6 28/6 25/7 9/10. 1930.

Dates of Examination of principal parts—Cylinders 11/6 - 24/6 Covers 11/6 - 22/6 Pistons 21/6 - 28/6 Piston rods <

Connecting rods 11/6 - 4/6 Crank and Flywheel shaft 11/6 - 4/6 Intermediate shaft <

Crank and Flywheel shaft, Material Steel Identification Mark 13-5-30 Intermediate shafts, Material < Identification Marks <

Is this machinery duplicate of a previous case? Yes. If so, state name of vessel *Old Iron Works* (not yet reported).

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

*The engine has been made in accordance with the Rules. Landing letter and approved plans. All motive tested & required, workmanship good. Engine tried under full working condition on bench and good.*

*This engine has been forwarded to the Mr. W. G. Guste of H. A. F. Arnold & Co. Schiedam.*

*The Engine has been fitted on board, same examined in working condition and found in order.*

*M. W. G. Guste*

The amount of Fee ...

Travelling Expenses (if any)

When applied for,

19

When received,

19

*H. A. F. Arnold & Co.*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 31 MAR '31

Assigned

*See F. B. Rpt.*



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