

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12211

18 MAR 1931

25 JAN 1931

Date of writing Report 12 March 1931 When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM
Reg. Book.

Date, First Survey 4 November Last Survey 15 February 1931
Number of Visits 2

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel "Feijenoord's Yard No. 320"

Tons { Gross 11500
Net -

Built at Rotterdam

By whom built N.V. Mij. voor Scheeps &

Werktuigbouw "Feijenoord"

Yard No. 320 When built 1931

Owners Anglo Saxon Petroleum Co., Ltd.

Port belonging to London

Oil Engines made at Amsterdam

By whom made N.V. Kromhout Motoren Fabrik

Contract No. 5947, When made 1931

Generators made at Slikkerveer

By whom made Smit

Contract No. - When made 1930

No. of Sets 1 Engine Brake Horse Power 26 Nom. Horse Power as per Rule 7 Total Capacity of Generators 16 Kilowatts.

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

Maximum pressure in cylinders *35 kg/cm²* Diameter of cylinders *210 mm* Length of stroke *240 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 *Yes*

Revolutions per minute *390* Flywheel dia. *1100 mm* Weight *1180 kg* Means of ignition *Congruent* Kind of fuel used *Drum 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 *as fitted 110 mm* Mid. length thickness *61.5 mm* Thickness around eyehole *46.5 mm*

Flywheel Shaft, diameter *as per Rule 110 mm* Intermediate Shafts, diameter *as per Rule 110 mm* Thickness of cylinder liners *as fitted 110 mm*

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

Air Compressors, No. *1* No. of stages *1* Diameters *150 mm* Stroke *150 mm* Driven by *Electric*

Exhausting Air Pumps, No. *1* Diameter *150 mm* Stroke *150 mm* Driven by *Electric*

R RECEIVERS:—Is each receiver, which can be gated, fitted with a safety valve *Yes*
Are the internal surfaces of the receivers be examined *Yes* What means are provided for cleaning their inner surfaces *Hand-bled*
Is there a drain arrangement fitted at the lowest part of each receiver *Yes*

High Pressure Air Receivers, No. *1* Total cubic capacity of each *1000 litres* Internal diameter *225 mm* thickness *8 mm*

Seamless, lap welded or riveted longitudinal joint *Seamless* Material *Steel* Range of tensile strength *40/50 tons per sq. inch* Working pressure by Rules *4.3 kg/cm²*

Starting Air Receivers, No. *2* Total cubic capacity *2000 litres* Internal diameter *325 mm* thickness *8 mm*
Seamless, lap welded or riveted longitudinal joint *Seamless* Material *Steel* Range of tensile strength *40/50 tons per sq. inch* Working pressure by Rules *4.3 kg/cm²*

ELECTRIC GENERATORS:—Type *Smit Slikkerveer*

Pressure of supply *110* volts. Load *145* Amperes. Direct or Alternating Current *AC*

Is alternating current system, state frequency of periods per second *50*

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*

Do they over compound 5 per cent. *Yes* if not compound wound state distance between each generator *1.5 m*

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*

ANS. Are approved plans forwarded herewith for Shafting *Returned* Receivers *to London* Separate Tanks *Office*
(If not, state date of approval) *1-3-30*

ARE GEAR 1 set of piston rings, studs for cylinder covers, 1 set of bottom end bracket, bolts, 1 gudgeon pin, 1 steel slot, 1 fuel pump complete, 1 fuel jet, 1 combustion chamber, springs and valves for fuel and cooling pumps, studs for main bearing keys, various packings.

The foregoing is a correct description,

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



© 2020

Lloyd's Register Foundation

005075-005081-0097

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

6/11 - 4/12. 19/11. 24/11. 1930. 9/1. 12/1. 29/1. 29/1. 31.

Dates of Examination of principal parts—Cylinders 6/11 - 12/1. Covers 4/11 - 12/1. Pistons 4/11 - 12/1. Piston rods 4/11 - 12/1.

Connecting rods 4/11 - 4/12. Crank and Flywheel shaft 4/11 - 4/12. Intermediate shaft

Crank and Flywheel shafts, Material Steel

Identification Mark Lloyd's M. R. Y. S. 30.

Intermediate shafts, Material

Identification Marks

Is this machinery duplicate of a previous case? If so, state name of vessel. Engine No. 5435. Horse Power 1200.

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

The engine has been constructed in accordance with the Rules Secretary's letter and approved plans. All material tested on required and workmanship good.
The engine has been tested under full working condition on test bench and good.

The engine has been forwarded to Rotterdam

The amount of Fee ...

Travelling Expenses (if any)

When applied for

When received

Committee's Minute

Assigned

FILED 29 JAN 1932

See F. G. Rpt.

Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register Foundation