

21 NOV 1928

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11210

1928

Received at London Office

4c.

Date of writing Report 16 October 1928 When handed in at Local Office

Port of AMSTERDAM

Survey held at AMSTERDAM

Date, First Survey March 16 Last Survey Sept 1928

Number of Visits 10

on the Single  
Twin  
Triple  
Quadruple

Screw vessel

KROMHOUT OIL ENGINE NO. 4667, type 2ER-III "Sigrid"

Tons { Gross -  
Net -

built at Arrossan

By whom built Arrossan Dockyard Co

Yard No. 340

When built 1928

owners Anglo-Saxon Petroleum Co.

Port belonging to London

Engines made at Amsterdam

By whom made Kromhout Motoren Fabriek

Contract No. -

When made 1928

Generators made at -

By whom made -

Contract No. -

When made -

of Sets 1 Engine Brake Horse Power 80 Nom. Horse Power as per Rule 23 Total Capacity of Generators - Kilowatts.

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 2 No. of cranks 2

Distance 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. 1300 mm Weight 840 kg Means of ignition ignition plate Kind of fuel used gas-oil

Crank Shaft, dia. of journals as per Rule Crank pin dia. 110 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis as fitted 110 mm Mid. length thickness 90 mm Thickness around eye-hole as fitted

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

governor or other arrangement fitted to prevent racing of the engine when declutched 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 No

Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size one of feed

Compressors, No. 1 No. of stages 1 Diameters 150 mm Stroke 150 mm Driven by engine

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

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

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

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 150 L Internal diameter 150 mm thickness 10 mm

Is it seamless, lap welded or riveted longitudinal joint seamless Material steel Range of tensile strength 40/50 tons Working pressure by Rules 105 kg/cm<sup>2</sup>

Starting Air Receivers, No. 1 Total cubic capacity 150 L Internal diameter 150 mm thickness 10 mm

Is it seamless, lap welded or riveted longitudinal joint seamless Material steel Range of tensile strength 40/50 tons Working pressure by Rules 105 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type dynamo air compressor

Pressure of supply 220 volts. Load 80 Amperes. Direct or Alternating Current Direct

Is it an 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

Are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator 100 mm

Is there 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 Yes Receivers Yes Separate Tanks Yes

SPARE GEAR

Please see list hereto attached.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK

D. GOEDKOOP Jr.

Manufacturer.



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Lloyd's Register Foundation

010200-010207-0108



Dates of Survey while building { During progress of work in shops - - 14/1 17/4 15 17 18/4 19/4 20/4 21/4 22/4 23/4 24/4 25/4 26/4 27/4 28/4 29/4  
 During erection on board vessel - - -  
 Total No. of visits 10.

Dates of Examination of principal parts—Cylinders 14/1 24/4 Covers 14/1 24/4 Pistons 16/1 24/4 Piston rods 2

Connecting rods 15 24/4 Crank and Flywheel shaft 18/4 29/6 Intermediate shaft "

Crank and Flywheel shaft, Material Steel Identification Mark Lloyd's 1515 Intermediate shafts, Material 404/85 r.m.b. Identification Marks Steel

Is this machinery duplicate of a previous case ☒ If so, state name of vessel ☒

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

The oil engine has been constructed under special Survey, in accordance with the approved plans and Secretary's letter.  
 All material tested as required, workmanship good.  
 Engine tried under full working conditions on test bench.

1m, 7, 26—Transfer.  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 180.- : When applied for, 19.....  
 Travelling Expenses (if any) £ 0.- : When received, 1. 11. 28 19.....

F. W. Munro  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 NOV 1928  
 Assigned See Glasgow Report No 48540