

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10578

Received at London Office

30 APR 1927

Date of writing Report 25th Apr. 1927 When handed in at Local Office

Port of AMSTERDAM

Date in Survey held at AMSTERDAM

Date, First Survey 4th Nov. 1926 Last Survey 7th April 1927.

eg. Book.

Number of Visits 10

-- on the ^{Single} Twin ^{Triple} Screw vessel ^{Quadruple}

OIL ENGINE NO. 3862, type E.R.o

M.V. "PAVA."

Tons { Gross -
Net -

Built at - By whom built -

Yard No. - When built -

Owners Anglo-Saxon Petroleum Co. Lim.

Port belonging to -

Engines made at Amsterdam

By whom made N.V. Kromhout Motoren
Fabriek

Contract No. - When made 1927

Generators made at -

By whom made Sunderland Forge & Eng. Co.

Contract No. - When made -

of Sets 1 Engine Brake Horse Power 15 Nom. Horse Power as per Rule 4 Total Capacity of Generators 6 Kilowatts.

ENGINES, &c. Type of Engines 1 Auxiliary Kromhout Oil Engine 2 or 4 stroke cycle Single or double acting

Minimum pressure in cylinders 16 atm Diameter of cylinders 196 mm Length of stroke 205 mm No. of cylinders 1 No. of cranks 1

No. of bearings, adjacent to the Crank, measured from inner edge to inner edge 2 1/2 mm Is there a bearing between each crank One crank.

Revolutions per minute 440 Flywheel dia. 950 mm Weight 500 kg Means of ignition Ignition plates of fuel used Crude oil

Crank Shaft, dia. of journals as per Rule Appended Crank pin dia. 45 mm Crank Webs Mid. length breadth 110 mm Thickness parallel to axis 44 mm

as fitted 45 mm Mid. length thickness 44 mm Thickness around eye hole 20 mm

Wheel Shaft, diameter as per Rule 4 Intermediate Shafts, diameter as per Rule 4 Thickness of cylinder liners 4

as fitted 45 mm as fitted 4

Governor or other arrangement fitted to prevent racing of the engine when declutched 4 Means of lubrication forced lubrication

Are the cylinders fitted with safety valves 4 Are the exhaust pipes and silencers water cooled or lagged with non-conducting material 4

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel 4

Lubricating Oil Pumps, No. and size 4

Compressors, No. 4 No. of stages 4 Diameters 4 Stroke 4 Driven by 4

Sucking Air Pumps, No. 4 Diameter 4 Stroke 4 Driven by 4

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule 4

Are the internal surfaces of the receivers be examined 4 What means are provided for cleaning their inner surfaces 4

Is there a drain arrangement fitted at the lowest part of each receiver 4

High Pressure Air Receivers, No. 4 Cubic capacity of each 4 Internal diameter 4 thickness 4

Seamless, lap welded or riveted longitudinal joint 4 Material 4 Range of tensile strength 4 Working pressure by Rules 4

Sucking Air Receivers, No. 1 Total cubic capacity 40 L Internal diameter 206 mm thickness 4 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 58 kg Working pressure by Rules 454 kg

ELECTRIC GENERATORS: Type Sunderland Forge, Engineering Co. Type

Pressure of supply 110 volts Load 54.5 Amperes Direct or Alternating Current Direct current

Is alternating current system, state frequency of periods per second 4

Is the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off 4

Generators, do they comply with the requirements regarding rating 4 are they compound wound 4

Are they over compounded 5 per cent. 4, if not compound wound state distance between each generator 4

Is an adjustable regulating resistance fitted in series with each shunt field 4 Are all terminals accessible, clearly marked, and furnished with sockets 4

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched 4 Are the lubricating arrangements of the generators as per Rule 4

ANS. Are approved plans forwarded herewith for Shafting Retained Receivers in London Separate Tanks

(If not, state date of approval) Secretary's letter 2.10 Sept. 1924.

ARE GEAR

1 piston complete, 1 combustion chamber, 1 set of piston rings,
gudgeon pin, 1 roller plate, 3 ignition plates, 1 set of bottom
end brass and bolts, 1 set of main beam, brass and bolts
complete, 1 burner for rapid heater, 1 fuel pump, various lengths
of tubes.

Please see further list attached.

The foregoing is a correct description,

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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Foundation

003385-003390-0098

Dates of Survey while building
 During progress of work in shops - 4/11, 24/11, 2/12, 3/12, 9/12, 26/12, 11/1, 1/4, 4/4, 24/4
 During erection on board vessel -
 Total No. of visits 10

Dates of Examination of principal parts - Cylinders 24/11 - 9/12, 26 Covers 24/11 - 2/12, 26 Pistons 12/11 - 9/12, 26 Piston rods -
 Connecting rods 4/11 - 12/2 Crank and Flywheel shaft 4/11 - 3/12 Intermediate shaft -
 Crank and Flywheel shaft, Material Steel Identification Mark ENB 3.12.26 Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case Yes If so, state name of vessel Copy of Kil En. in No. 5049
 General Remarks (State quality of workmanship, opinions as to class, &c.) Annul. Rep. No. 9426

The oil En. has been made under special survey, in accordance with the approved plan and Secretary's letter, all material tested as required, workmanship good. Engine tried under full working conditions on test bench and good.

P. W. Bennett

This semi-diesel engine has been fitted in the M.V. "PAVA" (Messrs. Harland & Wolff's No. 750 G.) at Glasgow as an auxiliary generator engine.

J. Doyle
 Glasgow, 16/6/27.

Order
 16/6/27

The amount of Fee ... £ 120.-
 Travelling Expenses (if any) £ 4/-
 When applied for, 19...
 When received, April 27

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 5-JUL 1927

Assigned See G.L. Rep. No. 46775



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