

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11207

Received at London Office

31 DEC 1928

Date of writing Report 18 March 1928 When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey 14 October Last Survey 11 March 1928

Reg. Book.

Number of Visits 7

Single  
Twin  
Triple  
Quadruple

OIL ENGINE NO. 1974 for a 340 Tons Tanker

Tons { Gross -  
Net -

Built at Kobe

By whom built Mitsui Bussan Kaisha Co. Ltd. Yard No. 120 When built -

Owners Nederl. Indische Tank Stoomboot My.

Port belonging to Rotterdam

Oil 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 -

No. of Sets 1 Engine Brake Horse Power 22 Nom. Horse Power as per Rule 6 Total Capacity of Generators 14? Kilowatts.

OIL ENGINES, &c. Type of Engines 4-cylinder oil engine 2 stroke cycle Single or double acting

Maximum pressure in cylinders 18 kg/cm<sup>2</sup> Diameter of cylinders 230 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 264 mm Is there a bearing between each crank -

Revolutions per minute 440 Flywheel dia. 1100 mm Weight 600 kg Means of ignition magnetos Kind of fuel used Crude oil

Crank Shaft, dia. of journals as per Rule 85 mm as fitted 85 mm Crank pin dia. 85 mm Crank Webs Mid. length breadth 120 mm Thickness parallel to axis - Mid. length thickness 52 mm shrunk Thickness around eye hole 10 mm

Flywheel Shaft, diameter as per Rule 48 mm as fitted 48 mm Intermediate Shafts, diameter as per Rule - as fitted - Thickness of cylinder liners -

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 No 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 2 Friedman lubricating oil pump 5 feeds. Yes

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 Steam

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. 1 Total cubic capacity 40 L Internal diameter 203 mm thickness 4 mm 816

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 44-50 kg Working pressure by Rules 105 kg

ELECTRIC GENERATORS: Type Sundstrand forge

Pressure of supply 110 volts Load 124 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 - Are all terminals accessible, clearly marked, and furnished with sockets -

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

PLANS. Are approved plans forwarded herewith for Shafting, Receivers in London Separate Tanks Office

SPARE GEAR Piston with rings complete, 1 combustion chamber, 1 gudgeon pin, 1 roller plate, 3 ignition wires, 1 set of bottom end bushes, bolts, 1 set of main bearing bushes, bolts, 1 fuel pump complete, various lengths of tubes, 1 fuel injector and starting plug.

The foregoing is a correct description,  
p.p. N.V. KROMHOUT MOTOREN FABRIEK  
D. GOEDKOOP JR.

Manufacturer.



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Foundation

008049 - 008060 - 0239

Checked 10/1/29



Dates of Survey while building { During progress of work in shops - - }  
During erection on board vessel - - }  
Total No. of visits 8

October 14. 1923. Nov. 5. 1924. December 4. 11.

Dates of Examination of principal parts—Cylinders  $14/10$  -  $26/11$  Covers  $14/10$  -  $26/11$  Pistons  $14/10$  -  $26/11$  Piston rods  $14/10$  -  $26/11$

Connecting rods  $14/10$  -  $5/4$  Crank and Flywheel shaft  $14/10$  -  $4/12$  Intermediate shaft  $14/10$  -  $4/12$

Crank and Flywheel shaft, Material Steel Identification Mark  $14/10$  -  $4/12$  Intermediate shafts, Material Steel Identification Marks  $14/10$  -  $4/12$

Is this machinery duplicate of a previous case  $4/10$  If so, state name of vessel  $4/10$  -  $4/12$   $4/10$  -  $4/12$   $4/10$  -  $4/12$

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. Engines tested under full working condition at test bench and good.

P. W. Bennett

The amount of Fee ... £ 110/-

Travelling Expenses (if any) £ 7/-

When applied for,

19...

When received,

15-1-29

P. W. Bennett  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 21 FEB 1930

Assigned

See Kobe 6719



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