

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11207

Received at London Office

31 DEC 1928

Date of writing Report 11 Dec 1928 When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey 14 October Last Survey 11 Dec 1928

Reg. Book.
 -- on the
 Single
 Twin
 Triple
 Quadruple

~~SIX CYLINDER~~ OIL ENGINE NO. 4974 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 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders 18 kg/cm² Diameter of cylinders 230 mm Length of stroke 240 mm No. of cylinders 4 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 Weight 600 kg Means of ignition ignition plate Kind of fuel used Crude oil

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

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

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 as fitted

Lubricating Oil Pumps, No. and size Freedman lubricating oil pump 5 feeds

Air Compressors, No. as fitted No. of stages as fitted Diameters as fitted Stroke as fitted Driven by as fitted

Scavenging Air Pumps, No. as fitted Diameter as fitted Stroke as fitted Driven by as fitted

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. as fitted Cubic capacity of each as fitted Internal diameter as fitted thickness as fitted

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

Starting Air Receivers, No. 1 Total cubic capacity 40 L Internal diameter 203 mm thickness 4 mm

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

ELECTRIC GENERATORS: Type sun declared forge

Pressure of supply 110 volts. Load 124 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second as fitted

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 as fitted

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

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

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

SPARE GEAR Piston with rings complete, combustion chamber, gudgeon pin, roller plate, 3 gudgeon covers, 1 set of bottom end bones, bolts, 1 set of main bearing bones, 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. GEDROOP JR.
 [Signature]

Manufacturer.



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Lloyd's Register Foundation

008049 - 008060 - 0239

Checked 10/1/29

Dates of Survey while building { During progress of work in shops - - } October 17, 18, 23. Nov. 5, 19, 21. December 4, 11.
 { During erection on board vessel - - - }
 Total No. of visits 8.

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

Connecting rods $14/10$ - $5/11$ Crank and Flywheel shaft $14/11$ - $4/12$ Intermediate shaft c

Crank and Flywheel shaft, Material *Steel* Identification Mark *F.P.A. 44.12.28* Intermediate shafts, Material c Identification Marks c

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Oil Engine no. 4456. Built Dec. 10, 1928*

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 conditions at test bench and good.

P. W. Bennett

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

The amount of Fee ... *£ 18/0*
 Travelling Expenses (if any) £ *7/*

When applied for, *ASPA*
 When received, *15-1-29*
666

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

Committee's Minute *FRI, 21 FEB 1930*

Assigned *See Kobe 6719*

