

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10909C

Received at London Office 11 FEB 1928

23 APR 1928

4c.

Date of writing Report *1 Feb* 19 *28* When handed in at Local Office *19* Port of *AMSTERDAM*
 No. in Survey held at *AMSTERDAM* Date, First Survey *17 Sept. 27* Last Survey *16 Jan* 19 *28*
 Reg. Book. Number of Visits *6*
 -- on the *Single* Screw vessel *Messrs. Gebr. Pot's Yard No. 800* Tons { Gross *-* Net *-*
 Built at *Bolnes* By whom built *Gebr. Pot* Yard No. *800* When built *1928*
 Owners *Nederl. Indische Tankstoomboot Maatschappij* Port belonging to *Rotterdam*
 Oil Engines made at *Amsterdam* By whom made *N.V. Kromhout Motoren Fabr* *ENG.* Contract No. *4853* When made *1928*
 Generators made at *-* By whom made *-* Contract No. *-* When made *-*
 No. of Sets *1* Engine Brake Horse Power *15* Nom. Horse Power as per Rule *4* Total Capacity of Generators *-* Kilowatts.

IL ENGINES, &c. Type of Engines *one Auxiliary Kromhout oil engine* 2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders *18 kg/cm²* Diameter of cylinders *196 mm* Length of stroke *205 mm* No. of cylinders *1* No. of cranks *1*

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *216 mm* Is there a bearing between each crank *-*

Revolutions per minute *500* Flywheel dia. *950 mm* Weight *500 kg* Means of ignition *ignition plug* Kind of fuel used *crude oil*

Crank Shaft, dia. of journals *as per Rule approved* Crank pin dia. *75 mm* Crank Webs Mid. length breadth *160 mm* Thickness parallel to axis *shrunk*

as fitted *75 mm* Mid. length thickness *45 mm* Thickness around eye hole *filled*

Flywheel Shaft, diameter *as per Rule* Intermediate Shafts, diameter *as per Rule* Thickness of cylinder liners *-*

as fitted *-* 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

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 *1*

Air Compressors, No. *-* No. of stages *-* Diameters *-* Stroke *-* Driven by *-*

Exhausting Air Pumps, No. *-* Diameter *-* Stroke *-* Driven by *-*

R 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 *Cover*

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 *-*

Working Air Receivers, No. *1* Total cubic capacity *40 L* Internal diameter *203 mm* thickness *7 mm*

Seamless, lap welded or riveted longitudinal joint *Seamless* Material *SMS* Range of tensile strength *20.30 kg/cm²* Working pressure by Rules *approved*

ELECTRIC GENERATORS:—Type

Pressure of supply *-* volts. *Load* Amperes. *Direct or Alternating Current*

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

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

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

Are they over compounded 5 per cent. *-*, 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

ANS. Are approved plans forwarded herewith for Shafting *Returned* Receivers *in London* Separate Tanks *office*

(If not, state date of approval) *29-9-27*

FREE GEAR

As per attached list

The foregoing is a correct description,
 N.V. KROMHOUT MOTOREN FABRIEK

D. GOEDKOOP JR.

Manufacturer.



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Lloyd's Register
 Foundation

W997-0145

1927: ^{20.} Sept 17. Nov 20. Dec 12; 1928. Jan 10. 16.

Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - - }
 Total No. of visits 6

Dates of Examination of principal parts—Cylinders 12/12 12/30 Covers 12/12 12/30 Pistons 12/12 12/30 Piston rods ✓

Connecting rods 23/11 30/12 Crank and Flywheel shaft 23/11 10/12 Intermediate shaft ✓

Crank and Flywheel shaft, Material S M S Identification Mark 307 4210. 12-12-22 Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Eng No 4116 Ans up to No 10477*

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

The oil engine has been built under special survey in accordance with the approved plan and Secretary's letter, material tested as required, workmanship good

Tried engine on bench under full working condition found working satisfactorily

1m. 7.26—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... *£ 120 -* : When applied for, 19...
 Travelling Expenses (if any) *£ 2 -* : When received, 20.2 1928

E. J. Dwyer
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 27 APR 1928*
 Assigned *See Rob. J. E. 17391*