

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15022 ⁶

Received at London Office 7 SEP 1933

Writing Report *14th Sept 1933* When handed in at Local Office *19* Port of **AMSTERDAM**

Survey held at **AMSTERDAM** Date, First Survey *10 January* Last Survey *15 August 1933*

Book *1001* on the *XXXX* Screw vessel **"ZWARTE ZEE"** Tons { Gross - Net -

at **Kinderdyk** By whom built **L. Smit & Zoon** Yard No. **872** When built **1933**

ers **N.V.L.Smit & Co's Sleepdienst** Port belonging to **Rotterdam**

Engines made at **Amsterdam** By whom made **N.V. L. SMIT & Zoon Werkspoor** Contract No. - When made **1933**

Generators made at **Slikkerveer** By whom made **Smit** Contract No. - When made **1933**

of Sets Engine Brake Horse Power **120** Nom. Horse Power as per Rule **26** Total Capacity of Generators **2 x 85** Kilowatts.

of Engines, &c. Type of Engines *2 Werkspoor engines 2 or 4 stroke cycle* Single or double acting

Maximum pressure in cylinders *45 kg/cm²* Diameter of cylinders *260 mm* Length of stroke *350 mm* No. of cylinders *3* No. of cranks *3*

of bearings, adjacent to the Crank, measured from inner edge to inner edge *324 mm* Is there a bearing between each crank *Yes*

Revolutions per minute *400* Flywheel dia. *1300 mm* Weight *1550 kg* Means of ignition *Mechanical* Kind of fuel used *Diesel fuel*

Crank Shaft, dia. of journals as per Rule *approved* as fitted *150 mm* Crank pin dia. *150 mm* Crank Webs Mid. length breadth *240 mm* Thickness parallel to axis *45 mm*

Wheel Shaft, diameter as per Rule *4* as fitted *4* Intermediate Shafts, diameter as per Rule *4* as fitted *4* Thickness of cylinder liners *14/20 mm*

governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication *forced*

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

ing Water Pumps, No. *2 separate pumps 40 ton* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Yes*

ricating Oil Pumps, No. and size *one for each engine 1 1/2 V. p. h.*

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

enging Air Pumps, No. *4* Diameter *4* Stroke *4* Driven by *4*

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

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

Are a drain arrangement fitted at the lowest part of each receiver *Yes*

Pressure Air Receivers, No. *one* Cubic capacity of each *120 Liters* Internal diameter *302 mm* thickness *8 mm*

less, lap welded or riveted longitudinal joint *Stamless* Material *Steel* Range of tensile strength *28-35 ton* Working pressure by Rules *35 atm* **4500**

ing Air Receivers, No. *two* Total cubic capacity *12 m³* Internal diameter *1095 mm* thickness *19 mm*

less, lap welded or riveted longitudinal joint *riveted* Material *Steel* Range of tensile strength *30-35 ton* Working pressure by Rules

ELECTRIC GENERATORS:—Type *Ventilated Dry proof*

Pressure of supply *110* volts. Load *445* Amperes. Direct or Alternating Current *Direct*

Alternating current system, state frequency of periods per second *4*

Are 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 *4*

Are 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*

APPROVED. Are approved plans forwarded herewith for Shafting *Returned* Receivers *in London* Separate Tanks *Yes*

RE GEAR

Spangens supplied in accordance with the Rules, please see list attached.

The foregoing is a correct description.

WERKSPoor N.V.

Manufacturer.



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Dates of Survey while building

{ During progress of work in shops - - { During erection on board vessel - - - { Total No. of visits	10/1. 11/2. 14/2. 22/2. 4/3. 20/3. 25/3
	19. 22/2.
	0

Dates of Examination of principal parts—Cylinders 10/1 - 25/3 Covers 10/1 - 25/3 Pistons 10/1 - 25/3 Piston rods <

Connecting rods 10/1 - 20/3 Crank and Flywheel shaft 10/1 - 25/3 Intermediate shaft <

Crank and Flywheel shafts, Material *Steel* Identification Mark *Lloyd's CR: 561. F.W. 13. 28. 5. 50*

Intermediate shafts, Material < Identification Marks <

Is this machinery duplicate of a previous case *No* If so, state name of vessel <

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

The machinery has been made in accordance with the Rules and Secretary's letter, approved plans.

All material tested as required and workmanship good.

The Surveyors are requested not to write on or below the space for Committee Minute.

The amount of Fee £	:	:	When applied for,
			19.....
Travelling Expenses (if any) £	:	:	When received,
			19.....

F. N. Bemowski
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 20 OCT 1933**

Assigned *Sa F. C. Rpt.*



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