

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15022 ⁶

Received at London Office 7 SEP 1933
 of writing Report 1st of Sept 1933 When handed in at Local Office 19 Port of **AMSTERDAM**
 in Survey held at **AMSTERDAM** Date, First Survey 10 Jan 1933 Last Survey 15 Aug 1933
 Book Number of Visits 5
 on the ~~XXXX~~ ^{Single} 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
 rators 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.

ENGINE, &c. Type of Engines 2. *Werkspoor* *in line* 2 or 4 stroke cycle Single or double acting
 mum pressure in cylinders 45 ⁴⁴ *psi* Diameter of cylinders 260 ² *mm* Length of stroke 350 ² *mm* No. of cylinders 3 No. of cranks 3
 of bearings, adjacent to the Crank, measured from inner edge to inner edge 324 ² *mm* Is there a bearing between each crank *Yes*
 tutions per minute 400 Flywheel dia. 1300 ² *mm* Weight 1550 ⁴ *kg* Means of ignition *Mechanical* Kind of fuel used *Diesel fuel*
 k Shaft, dia. of journals as per Rule *approved* Crank pin dia. 150 ² *mm* Mid. length breadth 240 ² *mm* Thickness parallel to axis 45 ² *mm*
 as fitted 150 ² *mm* Crank Webs Mid. length thickness 45 ² *mm* Thickness around eyehole *shrunk*
 heel Shaft, diameter as per Rule *4* Intermediate Shafts, diameter as per Rule *4* Thickness of cylinder liners 14/20 ² *mm*
 as fitted *4* as fitted *4*
 governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication *forced*
 he 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 p.h.* 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 2 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 as per Rule *Yes*
 he internal surfaces of the receivers be examined *Yes* What means are provided for cleaning their inner surfaces *manholes*
 re a drain arrangement fitted at the lowest part of each receiver *Yes*
 Pressure Air Receivers, No. *one* Cubic capacity of each 120 *Litres* Internal diameter 302 ² *mm* thickness 8 ² *mm*
 less, lap welded or riveted longitudinal joint *lamin* Material *Steel* Range of tensile strength 28 *ton* Working pressure by Rules 35 *atm* 4500
 ing Air Receivers, No. *Two* Total cubic capacity 12 *m³* Internal diameter 1095 ² *mm* thickness 19 ² *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 *Ventilator Sup proof*
 sure of supply 110 volts. Load 445 Amperes. Direct or Alternating Current *Direct*
 Alternating current system, state frequency of periods per second *4*
 the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off *Yes*
 erators, do they comply with the requirements regarding rating *Yes* are they compound wound *Yes*
 hey over compounded 5 per cent. *Yes* if not compound wound state distance between each generator *4*
 adjustable regulating resistance fitted in series with each shunt field *Yes* Are all terminals accessible, clearly marked, and furnished with sockets *Yes*
 hey 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*
 NS. Are approved plans forwarded herewith for Shafting *Approved* Receivers *in London* Separate Tanks *offis*
 (If not, state date of approval) 2.12.32.

RE GEAR

*Spangier 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 - 10/1. 11/2. 14/2. 22/2. 4/3. 20/3. 25/3
 During erection on board vessel - 19. 22/2.
 Total No. of visits 9.

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

Crank and Flywheel shafts, Material Steel Identification Mark Lloyd's cr: 261. T.W.B. 28.5.33
 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 ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 19.....
 When received, 19.....

A. V. Bernoski
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 20 OCT 1933

Assigned La F.C. Rpt.



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