

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1064

Received at London Office 16 MAY 1934

Date of writing Report 30th April 1934 When handed in at Local Office 19 Port of STETTIN

No. in Survey held at Breslau Date, First Survey 13th April Last Survey 19th April 1934  
Reg. Book. Number of Visits 4

31854 on the <sup>Single</sup> <sub>Triple</sub> Screw vessel "Boschfontein" ex "Nieuwerkerk" Tons { Gross 6280  
Net 3423

Built at Flushing By whom built N.V. Kon. Maats. De Schelde Yard No. When built 1928-10

Owners Verenigde Ned. Scheep. Maats. (Directie en Agentuur Maats. Hollandsche Lijn N.V.) Port belonging to The Hague

Oil Engines made at Breslau By whom made Links-Hofmann-Buschag Contract No. 22794/800 When made 1934

Generators made at By whom made Contract No. When made

No. of Sets 2 Engine Brake Horse Power 75 Nom. Horse Power as per Rule 2.5 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c. Type of Engines Links-Diesel, 04 M24a. 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 50 kg. Diameter of cylinders 190 mm Length of stroke 240 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 190 mm Is there a bearing between each crank yes

Revolutions per minute 500 Flywheel dia. 1250 mm Weight 500 kg. Means of ignition Compression Kind of fuel used Gas oil

Crank Shaft, dia. of journals as per Rule 100 mm as fitted 110 mm Crank pin dia. 100 mm Crank Webs Mid. length breadth 175 mm Thickness parallel to axis shrunk Mid. length thickness 49 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 11 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched no 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 no

Cooling Water Pumps, No. 1 of 2500 l.p.h. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 of 1100 litres p. hour

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 Bottom hole of 100 mm dia.

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. 2 Total cubic capacity 150 l. each Internal diameter 398 mm thickness 11 mm

Seamless, lap welded or riveted longitudinal joint lap welded Material St. Steel Range of tensile strength 43.6 kg. Working pressure by Rules 35 kg.

ELECTRIC GENERATORS:—Type

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

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

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

PLANS. Are approved plans forwarded herewith for Shafting yes Receivers 24/4/34 Separate Tanks

SPARE GEAR Proposed as per list attached!

The foregoing is a correct description,

Manufacturer.



*[Handwritten signatures and notes]*

Dates of Survey while building { During progress of work in shops - - 13<sup>th</sup>, 14<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup> April, 1934.  
 { During erection on board vessel - - -  
 { Total No. of visits 4.

Dates of Examination of principal parts—Cylinders 14-19.4.34 Covers 18-19.4.34 Pistons 18-19.4.34 Piston rods  
 Connecting rods 18-19.4.34 Crank and Flywheel shaft 18-19.4.34 Intermediate shaft

Crank and Flywheel shafts, Material *S. S. Steel* Identification Mark Nos. 10267/8. M.B. 27.2.34.

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.)

*These Motors have been tried at the works during a trial at full load of 6 hours duration, further at 3/4 and 1/2 load, also at an overload of 20% with good result. On completion of the trials they were opened up, cleaned and examined carefully in all parts and found, as far as can be seen, to be in good condition, the workmanship thereon is satisfactory.*

*They have been marked in way of cylinder blocks: No 1832, resp. 1833. N.S. 14-19.4.34*

*The starting air receivers of these motors are made in accordance with the approved plans and when tested to 50 kg. water pressure were found tight and sound in every respect. Marks on same: No. 6443 & No 6444.*

LLOYD'S TEST 50 kg.  
 W.P. . . . 25 "  
 N.S. - 19.4.34.

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

The amount of Fee . . . . £ 16 : 0 :  
 Travelling Expenses (if any) £ 8 : 5 :

When applied for, 18<sup>th</sup> April 1934.  
 When received, 22.5.34 AD. ✓

*M. Hoese*  
 Surveyor to Lloyd's Register of Shipping.

TUE. 27 MAY 1934

Committee's Minute  
 Assigned

