

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15512

Received at London Office JAN 18 1939

Date of writing Report 9 January 1939 When handed in at Local Office 19 Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey 21 Oct Last Survey 4 January 1939
Reg. Book. Number of Visits 13

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel "NIGERSTROOM" Tons ^{Gross} ~~Net~~

Built at Krumpen 1/2 gul By whom built N.V. C. v. d. Gussen & Co Yard No. 656 When built 1939

Owners N.V. Holl Schoubert W4 Port belonging to Amsterdam

Oil Engines made at Amsterdam By whom made N.V. Werkspoor Contract No. 755 When made 1930/34

Generators made at Schkevenaar By whom made N.V. Wellem Smit & Co Contract No. 2253 When made 1930

No. of Sets 3 Engine Brake Horse Power 150 Nom. Horse Power as per Rule Total Capacity of Generators 300 Kilowatts.

OIL ENGINES, &c.—Type of Engines Trunk piston 2 or 4 stroke cycle 4 Single or double acting single

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

Span 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 500 Flywheel dia. 1200 mm Weight 15400 kg Means of ignition Solid magnet Kind of fuel used Diesel oil

Crank Shaft, dia. of journals ^{as per Rule approved} 180 mm Crank pin dia. 160 mm Crank Webs ^{Mid. length breadth 260 mm} ^{Thick. parallel to axis shrunk}

Flywheel Shaft, diameter ^{as per Rule —} — Intermediate Shafts, diameter ^{as per Rule —} — Thickness of cylinder liners 2/25 mm

Is a 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 exhaust pipes water cooled

Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel —

Lubricating Oil Pumps, No. and size one rotary 1500 l/hour

Air Compressors, No. — No. of stages — Diameters — Stroke — Driven by —

Scavenging Air Pumps, No. — Diameter — Stroke — Driven by —

AIR RECEIVERS:—Have they been made under Survey Main Air receivers State No. of Report or Certificate 5172-5173

Is each receiver, which can be isolated, fitted with a safety valve as per Rule —

Can the internal surfaces of the receivers be examined — What means are provided for cleaning their inner surfaces —

Is there a drain arrangement fitted at the lowest part of each receiver —

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. — Total cubic capacity — Internal diameter — thickness —

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

ELECTRIC GENERATORS:—Type Compound direct current

Pressure of supply 220 volts. Full Load Current 470 Amperes. Direct or Alternating Current Direct

If alternating current system, state the periodicity — Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes

Generators, are they compounded as per rule Yes is an 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

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test — and do the results comply with the requirements —

If the generators are 100 kw. or over have they been built and tested under survey Yes

PLANS. Are approved plans forwarded herewith for Shafting 14.2.38 Receivers — Separate Tanks —

SPARE GEAR As per Rules

The foregoing is a correct description,

WERKSPoor N.V.

[Signature]

Manufacturer.



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Dates of Survey while building
 { During progress of work in shops - -) ^{31 Oct} Nov. 15. 16. 21. 24. 30 Dec 5. 9. 12. 14. 23. Jan 2. 4.
 { During erection on board vessel - - -)
 Total No. of visits

Dates of Examination of principal parts—Cylinders 15-16-21 Nov Covers 31 Oct 16 Nov Pistons 31 Oct 16 Nov Piston rods ✓

Connecting rods 31 Oct - 24. 30 Nov Crank and Flywheel shafts 30 Nov. 5 Dec Intermediate shafts ✓

Crank and Flywheel shafts, Material S.M.S. Identification Marks 30374. C.H. 30.6-38

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

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 three Auxiliary engines have been built under special survey in accordance with the approved plans & Secretary's letters. Material duly tested, workmanship throughout good

The engines have been shipped to Krimpen ad Ysel and will be placed aboard on Mr. d. Guesen's ship Jord No 656-

These engines have been satisfactorily fitted in the M.V. "Nigertroom".

1m. 5. 37. - Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

B. J. Burdett
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI, 21 APR 1939

Assigned

See P2 machy rft.



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