

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15512

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

Single on the Twin Triple Quadruple } Screw vessel "NIGERSTROOM"
 Tons { Gross 735
 Net 730

Built at Krumpen 1/2 gub By whom built N.V. C. v. d. Gussen 22 Yard No. 656 When built 1939
 Owners N.V. Holl Shroombok W4 Port belonging to Amsterdam

Oil Engines made at Amsterdam By whom made N.V. Werkspoor Contract No. 735 When made 1930/34
 Generators made at Sluikhuizen By whom made N.V. Wellem Smit & C^o Contract No. 22253 When made 1930
 22252
 22251
 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 1540 mm Means of ignition Solid magnet Kind of fuel used Diesel oil
 Crank Shaft, dia. of journals as per Rule as fitted 180 mm Crank pin dia. 160 mm Crank Webs Mid. length breadth 260 mm Thickness parallel to axis shrunk
 Mid. length thickness 75 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 4/25 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 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 14-2-30 Receivers Separate Tanks
 (If not, state date of approval)

SPARE GEAR As per Rules
 F.W.

The foregoing is a correct description,
 WERKSPOR N.V.
 Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 31 Oct Nov. 15. 16. 21. 29. 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. 29. 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 d' Yssel and will be placed aboard on Mr. d. Guesen's Land No 656-

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

1m. 5. 37. — Transfer.
 (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

Committee's Minute

Assigned

FRI, 21 APR 1939

See P2 machy rft.

B. Burgdorff
 Surveyor to Lloyd's Register of Shipping.



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