

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13349

Received at London Office

-4 JAN 1935

Date of writing Report 19 Dec 1934 When handed in at Local Office

Port of Amsterdam

No. in Survey held at  
Reg. Book.

Hengelo-Amsterdam

Date, First Survey 30 Nov. 33, Last Survey 18 Dec 1934

Number of Visits 24

Single  
on the Twin  
Triple  
Quadruple

Screw vessel M.V. JACERSFONTEIN.

Tons { Gross 6076.69  
Net 6750.23

Built at Amsterdam

By whom built N.V. Nedol Scheepb. M<sup>o</sup>

Yard No. 129 When built 1934

Owners N.V. Veren Nedol Scheepb. M<sup>o</sup>

Port belonging to G. Gravenhage

Oil Engines made at Hengelo

By whom made G. H. Stork &amp; Co.

Contract No. 3656/59 When made 1934

Generators made at Bremen

By whom made Agem Elect. Gesellschaft

Contract No. When made 1934

No. of Sets 4 Engine Brake Horse Power 4x 200 Nom. Horse Power as per Rule

Total Capacity of Generators 640 Kilowatts.

OIL ENGINES, &amp;c.—Type of Engines Stork Hendman, airless 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 45 kg/cm<sup>2</sup> Diameter of cylinders 275 mm Length of stroke 450 mm No. of cylinders 5 No. of cranks 5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 320 mm Is there a bearing between each crank

Revolutions per minute 300/375 Flywheel dia. 1500 mm Weight 2598 mm Means of ignition Inducers Kind of fuel used Crude oil

Crank Shaft, dia. of journals as per Rule 100 mm as fitted 100 mm Crank pin dia. 100 mm Crank Webs Mid. length breadth 320 mm Mid. length thickness 22 mm Thickness parallel to axis shrunk Thickness around eye hole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 22 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced lubrication &amp; sight feed

Are the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged &amp; water cooled

Cooling Water Pumps, No. 2 from main cooling line Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 20 ltr. lubric oil pump driven by each engine 3 ltr. per hour

Air Compressors, No. 2 100 ltr. No. of stages 2 Diameters 4 1/2" x 11" Stroke 8" Driven by Motor Also engine in main eng.

Scavenging Air Pumps, No. None 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 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. 1 Cubic capacity of each 500 ltr Internal diameter 464 mm thickness 9.5 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material SM 5 Range of tensile strength 20-32 ton Working pressure by Rules 4 kg/cm<sup>2</sup>

Starting Air Receivers, No. of Main engine 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

Pressure of supply 220 volts. Load 730 Amperes. Direct or Alternating Current Direct

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 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

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

PLANS. Are approved plans forwarded herewith for Shafting E 31-5-34 Receivers E 20-4-33 Separate Tanks

SPARE GEAR as per rules  
and per attached list

The foregoing is a correct description.

MACHINEFABRIEK GEBR. STORK &amp; Co. N.V.

Manufacturer.



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W182-0013



Dates of Survey while building { During progress of work in shops - 30 Nov. 4. 14. 21, 28 Dec. 11 Jan & Feb 2 - 23. 29 March 12. 19. 26 April 25 May. 1. 7 - 20 June  
During erection on board vessel - 23. 27 July. 1. 14. 17 Aug Sept 19 Oct 3. 22 - 20. 18 Dec  
Total No. of visits 27

Dates of Examination of principal parts - Cylinders 9 - 29 March Covers 23 March 19 April Pistons 23 March 12 April Piston rods 20 - 22. 33

Connecting rods 20 - 22. 33  
2 - 1 - 34  
2 - 3 - 34

Crank and Flywheel shaft 5. 1. 34 - 2. 3. 34

Intermediate shaft 9. 17. 9. 18. 9. 18. 2

Crank and Flywheel shafts, Material

SMS

Identification Mark 9. 17. 9. 18. 9. 18. 2  
886  
44040.5  
9. 17. 9. 18. 9. 18. 2  
PK EN. B 5. 1. 34

Intermediate shafts, Material

V

Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. Bloomfield HMS ref no 13300

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

The four sets of Auxiliary engines have been made in accordance with the approved plans. Secretary's letters and the rules Workmanship throughout good  
Tested under full working condition found working good

The amount of Fee ... £

Travelling Expenses (if any) £

When applied for,

19.

When received,

19.

Committee's Minute TUE. 15 JAN 1935

Assigned

See Machinery 78.

*Burgan*  
Surveyor to Lloyd's Register of Shipping.



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