

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
Twin
Triple
Quadruple

Screw vessel M.V. JACERSFONTEIN

Tons { Gross 10076.69
Net 6750.23

Built at Amsterdam By whom built N.V. Nedol Scheepb M^o Yard No. 209 When built 1934

Owners N.V. Veren Nedol Scheepb. M^o Port belonging to 2 Gravenhage

Oil Engines made at Hengelo By whom made Gch Stork & C^o Contract No. 3656/59 When made 1934

Generators made at Bremen By whom made Algem Elect Genllschaft 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, &c.—Type of Engines *Stork Hendman, vertical* 2 or 4 stroke cycle 4 Single or double acting *single*

Maximum pressure in cylinders *45 kg/cm²* 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 *tubes* Kind of fuel used *Crude oil*

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

Flywheel Shaft, diameter as per Rule *as per rule* as fitted Intermediate Shafts, diameter as per Rule *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 & tight feed lubrication*

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

Cooling Water Pumps, No. *cooling valves taken 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 rotary lubric oil pump driven by each engine 3 1/2 inch*

Air Compressors, No. *2 hoist* 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. *starting 2 14/11 33* Cubic capacity of each *500 l* 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/cm²*

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 & Co. N.V.

J. Meuse

Manufacturer.



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Dates of Survey while building
 During progress of work in shops - 30 Nov. 4. 14. 21, 28 Dec. 11 Jan 8 Feb 2 - 25. 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 18 April Pistons 23 March 12 April Piston rods

Connecting rods 20-12-33
 2-1-34
 2-3-34

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

Intermediate shaft

Crank and Flywheel shafts, Material

SMS

Identification Mark 9170. 9181. 9182
 44040'S
 886
 44040'S
 97. 34. 16. 1. 34 19. 1. 34 P.K. F.N.B 5. 1. 34

Intermediate shafts, Material

✓

Identification Marks ✓

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *M.V. Bloomfield's Arms refit 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.

Im. 9. 28 - 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.....

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

Committee's Minute TUE. 15 JAN 1935

Assigned *see Knatch 78.*



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