

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13308

Received at London Office

-6 NOV 1934

Date of writing Report 20 Oct 1934 When handed in at Local Office

Port of Amsterdam

No. in Survey held at Hengelo & Amsterdam Date, First Survey 2 November Last Survey 23 Oct 1934
Reg. Book.

Number of Visits 20

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel "BLOEMFONTEIN"

Tons { Gross 10075.49
Net 6155.15

Built at Amsterdam By whom built K.V. Nederl. Scheepb. M⁴. Yard No. 228 When built 1934
Owners Koen Nederl. Scheepvaart M⁴ Port belonging to S. Gravenhage
Oil Engines made at Hengelo By whom made Gebr. Stork & Co Contract No. 3648 When made 1934
Generators made at Bremen By whom made Algem. Electr. G. v. d. W. Contract No. When made 1934.
No. of Sets 4 Engine Brake Horse Power 4x300 Nom. Horse Power as per Rule Total Capacity of Generators 640 Kilowatts.

OIL ENGINES, &c.—Type of Engines Stork Hesselman, oilless 4 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 yes

Revolutions per minute 300/375 Flywheel dia. 1500 mm Weight 1593 kg Means of ignition Asbestos Kind of fuel used Crude oil

Crank Shaft, dia. of journals as per Rule 180 mm Crank pin dia. 100 mm Crank Webs Mid. length breadth 320 mm Thickness parallel to axis 32 mm
as fitted 180 mm Mid. length thickness 82 mm Thickness around eye hole 32 mm

Flywheel Shaft, diameter as per Rule 180 mm Intermediate Shafts, diameter as per Rule 180 mm 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 - sight 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. 2 Cooling water 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 lube oil pump driven by each engine 3 1/2 hp

Air Compressors, No. 2 twin No. of stages 2 Diameters 4 1/2" x 11" Stroke 8" Driven by Motor

Scavenging Air Pumps, No. none Diameter 4" Stroke 8" Driven by Motor

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 yes

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 500 l Internal diameter 464 mm thickness 9.1 mm

Seamless, lap welded or riveted longitudinal joint yes Material SMS Range of tensile strength 20-32 kg/cm² Working pressure by Rules 42 kg/cm²

Starting Air Receivers, No. 1 Total cubic capacity 500 l Internal diameter 464 mm thickness 9.1 mm

Seamless, lap welded or riveted longitudinal joint yes Material SMS Range of tensile strength 20-32 kg/cm² Working pressure by Rules 42 kg/cm²

ELECTRIC GENERATORS:—Type Compound

Pressure of supply 240 volts. Load 720 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second 50

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 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

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

SPARE GEAR As per rules and per attached list.

The foregoing is a correct description.

Machinefabriek GEER. STORK & Co. N.V.

Manufacturer.



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002582-0025-72

Dates of Survey while building
 During progress of work in shops - 1933 Nov 9-16 Dec 4-14-21 Jan 18-26 Feb 2-8-23 March 2-9 April 12.
 During erection on board vessel - May 25 June 2-16 July 16-20-27 Oct 2-9-10.
 Total No. of visits 13

Dates of Examination of principal parts—Cylinders 11-1-34 10-1-34 12-4-34 Covers 11-1-34 10-1-34 12-4-34 Pistons 10-1-34 Piston rods ✓

Connecting rods 11-12-33 20-12-33 2-1-34

Crank and Flywheel shaft Feb 2-28

Intermediate shaft ✓
 Lloyd's R.K. 9179 20-12-33
 " R.K. 9177 10-12-33
 " R.K. 9100 20-12-33
 " F.N.B. 035 5-1-34

Crank and Flywheel shafts, Material SMS

Identification Mark

Intermediate shafts, Material ✓

Identification Marks ✓

Is this machinery duplicate of a previous case Yes. If so, state name of vessel M.V. ALNKERK Im up 13156 C

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. Secondary's letters and the rules. Workmanship throughout good. Piston under full working condition found working good.

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. Bingham
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 16 NOV 1934

Assigned

See J.E. Rpt. on Archy



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