

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15406^e

Received at London Office

OCT 14 1938

Date of writing Report 5th Oct 1938 When handed in at Local Office 19 Port of Amsterdam
 No. in Survey held at Amsterdam Date, First Survey 13th June Last Survey 3rd Oct 1938
 Reg. Book. Single on the Twin Triple Quadruple Screw vessel M. 7 "Prins Bernhard" Tons {Gross 564
 Net 311
 Built at Amsterdam By whom built A. T. Haarlemsche Scheepstouwen Yard No. 351 When built 1938
 Owners A. T. Gemengd bedrijf Vaarwegen dienst Port belonging to Paramaribo (Suriname)
 Oil Engines made at Amsterdam By whom made A. T. Kromhout Mot. fabriek Contract No. 0500/01 When made 1938
 Generators made at Slikkerveen By whom made Smit Contract No. - When made 1938
 No. of Sets 2 Engine Brake Horse Power 36 Nom. Horse Power as per Rule 5.2 Total Capacity of Generators 46 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine type 3 L.S.V. 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 55 lb./sq. in. Diameter of cylinders 100 mm Length of stroke 152.4 mm No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 115 mm Is there a bearing between each crank Yes
 Revolutions per minute 1200 Flywheel dia. 660 mm Weight 240 lb. Means of ignition Compression Kind of fuel used Gas Oil
 Crank Shaft, dia. of journals as per Rule 44mm Crank pin dia. 66.67 mm Crank Webs Mid. length breadth 131 mm Thickness parallel to axis shrunk
as fitted 55 mm Mid. length thickness 87.0 mm Thickness around eyehole -
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3 mm
as fitted as fitted
 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 - Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged
 Cooling Water Pumps, No. 12 1200 ltr. p.h. on each engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size 12 500 liters per hour on each engine
 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 - State No. of Report or Certificate -
 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 G 310 Smit Slikkerveen
 Pressure of supply 110 volts. Full Load Current 209 Amperes. Direct or Alternating Current Direct current
 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 Yes and do the results comply with the requirements Yes
 If the generators are 100 kw. or over have they been built and tested under survey -

PLANS. Are approved plans forwarded herewith for Shafting 6/1/38 Receivers - Separate Tanks -
 (If not, state date of approval)

SPARE GEAR As per rule.

The foregoing is a correct description,
 KROMHOUT MOTOREN FABRIEK
 D. Goedkoop Jr. N.V.

Manufacturer.



Dates of Survey while building { During progress of work in shops - - } 13/6 - 26/7 - 29/7 - 0/8 - 19/8 - 20/8.
 { During erection on board vessel - - - } 23/8 - 27/8 - 12/9 - 21/9 - 23/9 - 27/9 - 3/10
 Total No. of visits 13

Dates of Examination of principal parts—Cylinders 13/6 - 0/8 Covers 13/6 - 0/8 Pistons 0/8 Piston rods ✓
 Connecting rods 19/8 Crank and Flywheel shafts 13/6 - 0/8 Intermediate shafts ✓
 Crank and Flywheel shafts, Material S. M. Steel Identification Marks LLOYDS No 8908 - 8909 C.B.C C. H. D. O. 30
 Intermediate shafts, Material ✓ Identification Marks ✓
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. The Auxiliary engines have been constructed under Special Survey in accordance with the Society's rules and regulations, approved plan and Secretary letter. The material used in the construction was found to be good and workmanship satisfactory. The engines have been tested on maker's test bed and on board and found working satisfactory.

1 in. 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.....

M. Gray
 Surveyor to Lloyd's Register of Shipping.



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FRI 21 OCT 1938

Committee's Minute
 Assigned

See Minute on H. Mach.