

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15434

Received at London Office

NOV -4 1938

Date of writing Report 30th Oct 1938 When handed in at Local Office 19 Port of Amsterdam
 No. in Survey held at Amsterdam Date, First Survey 10th March Last Survey 24th Oct 1938
 Reg. Book. Number of Visits 2 x 8
 on the Single Twin Triple Quadruple Screw vessel "Tigersbroom" Tons { Gross 51 Net 48
 Built at Wimper a/a Yssel By whom built H. T. C. v. d. Gieslen & Zonen Yard No. 656 When built 1938
 Owners Hooll. Stoomboot Mij. Scheepstredven Port belonging to Amsterdam
 Oil Engines made at Amsterdam By whom made H. T. Kromhout Contract No. 8590/91 When made 1938
 Generators made at Slikkerveer By whom made Smit Contract No. - When made 1938
 No. of Sets 2 Engine Brake Horse Power 2x51 Nom. Horse Power as per Rule 2x7 Total Capacity of Generators 2x35 Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout Diesel 4-Lo. S. V. 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 55 k.g./m² Diameter of cylinders 108 mm Length of stroke 151.4 No. of cylinders 4 No. of cranks 4
 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 1300 mm Flywheel dia. 660 mm Weight 240 k.g. Means of ignition Compression Kind of fuel used Gas Oil
 Crank Shaft, dia. of journals as per Rule as fitted 88.55 mm Crank pin dia. 66.67 mm Crank Webs Mid. length breadth 131 mm Thickness parallel to axis shrunk
 Flywheel Shaft, diameter as per Rule as fitted - Intermediate Shafts, diameter as per Rule as fitted - Thickness of cylinder liners 3 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 - Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -
 Cooling Water Pumps, No. 1 a 1300 l. p. hour Is the suction provided with an efficient strainer which can be cleared within the vessel -
 Lubricating Oil Pumps, No. and size 1 a 600 l. p. 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 Yes State No. of Report or Certificate -
 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 Bolted covers
 Is there a drain arrangement fitted at the lowest part of each receiver Yes
 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. 1 Total cubic capacity 100 liters Internal diameter 315 mm thickness 8 mm
 Seamless, lap welded or riveted longitudinal joint Lap welded Material 1/2 in. steel Range of tensile strength 44-50 k.g. Working pressure by Rules 30 k.g.

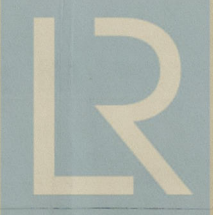
ELECTRIC GENERATORS:—Type G 320
 Pressure of supply 220 volts. Full Load Current 160 Amperes. Direct or Alternating Current Direct
 If alternating current system, state the periodicity - Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes
 Generators, are they compounded as per rule - is an adjustable regulating resistance fitted in series with each shunt field -
 Are all terminals accessible, clearly marked, and furnished with sockets -
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched - Are the lubricating arrangements of the generators as per Rule -
 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 -

PLANS. Are approved plans forwarded herewith for Shafting 11/12/37 Receivers 21/4/38 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.



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Lloyd's Register Foundation

002630-002638-0048

Dates of Survey while building { During progress of work in shops - - March 10-19; April 15 May 11-15 June 13 :
 { During erection on board vessel - - - Oct 5-24 on each engine
 Total No. of visits 16.

Dates of Examination of principal parts—Cylinders 18/3-19/3/38 Covers 18/3-19/3/38 Pistons 25/4 Piston rods ✓

Connecting rods 15/4 Crank and Flywheel shafts 10/3/38 Intermediate shafts ✓

Crank and Flywheel shafts, Material S. M. Steel Identification Marks Eng 8590 Lloyd's No 7074 M.A.B. Eng 8591 Lloyd's No 7073 M.A.B.

Intermediate shafts, Material ✓ Identification Marks H. K. 10-3-38 H. K. 10-3-38

Identification marks on Air Receivers No 4549. LLOYD'S TEST 60 Atm. W. P. 30 Atm. H. P. B 14-3-38.

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 plans and Secretary letters. The material used in the construction was found to be good and workmanship satisfactory. The engines have been tested on Makers Test Bed under full load condition and found in order.

These engines have been satisfactorily fitted on board of the M.V. "Nigustrom" Eng. No 8590 driving harbour dynamo. Eng No 8591 driving emergency dynamo on board deck. J. Williams

The amount of Fee ... £120.00: When applied for, 3.11.19.38

Travelling Expenses (if any) £7.00: When received, 29.11.38 L.C.4/1.

Mr. T. W. D. Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 21 APR 1939 Assigned See FE machy rpt