

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 22380

Date of writing Report 12.6.37 1937 When handed in at Local Office 10 Port of Hamburg Received at London Office JUN 18 1937
 No. in Survey held at Kiel Reg. Book. 1 Date, First Survey 27.1.37 Last Survey 4.6.37 1937
 on the Single Twin Triple Quadruple Screw vessel No 194 Number of Visits 4

Built at Hamburg By whom built Deutsche Werft A.G. Yard No. 194 When built 1917
 Owners Port belonging to

Oil Engines made at Kiel By whom made Bohn & Kähler A.G. Contract No. 10482 When made 1917
 Generators made at Bremen By whom made Allg. Elektrizitäts-Ges. Contract No. 524 993 When made 1917
 No. of Sets 1 Engine Brake Horse Power 86.5 Nom. Horse Power as per Rule 10.4 Total Capacity of Generators 22 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil, makers type KR 10 V 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 140 mm Length of stroke 190 mm No. of cylinders 4 No. of cranks 4
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 180 mm Is there a bearing between each crank yes
 Revolutions per minute 500 Flywheel dia. 750 mm Weight 315 kgs Means of ignition Diesel syst. Kind of fuel used Diesel Oil
 Crank Shaft, dia. of journals as per Rule 75.4 mm Crank pin dia. 75 mm Crank Webs Mid. length breadth 110 mm Thickness parallel to axis 50 mm
 as fitted 75 mm Mid. length thickness 43 mm Thickness around eye-hole shrunk
 Flywheel Shaft, diameter as per Rule 75.4 mm Intermediate Shafts, diameter as per Rule 1 Thickness of cylinder liners 11 mm
 as fitted 75 mm La. 26/6/37. 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 yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water-cooled
 Cooling Water Pumps, No. none Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
 Lubricating Oil Pumps, No. and size 1 rotary of 300 kgs capacity per hour
 Air Compressors, No. none No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

AIR RECEIVERS:—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 AE 9's type A.W. 95

Pressure of supply 115 volts. Load 191 Amperes. Direct or Alternating Current D.C.

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 no, 3.5.35 Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

SPARE GEAR

Will be supplied as per Rules

The foregoing is a correct description,

Bohn & Kähler

Motoren- und Maschinenfabrik
Aktiengesellschaft

KIEL

Manufacturer.



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Foundation

1000-161174

Dates of Survey while building { During progress of work in shops - - 1927 - Jan: 27 Feb: - Mar: 19 May: 14 June & 4
During erection on board vessel - - - ✓
Total No. of visits 4

Dates of Examination of principal parts - Cylinders 19.3.37 Covers 19.3.37 Pistons 19.3.37 Piston rods ✓

Connecting rods 19.3.37 Crank and Flywheel shaft 19.3.37 Intermediate shaft ✓

Crank and Flywheel shafts, Material 0.4. Steel

Identification Mark LLOYD'S 11187 0.4. 31.8.36.

Intermediate shafts, Material ✓

Identification Marks ✓

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Ham. Reg. No. 22114, dated 3.12.36.*

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

This auxiliary oil engine generating set has been built under Special Survey in accordance with the Society's Rules, the approved plans and instructions Rev'd. Material and workmanship are of good quality. In my opinion this generating set is eligible to be placed in the Society's Register Book with notation of +LHC- with date as part of the machinery of the vessel for which it is intended, when it has been satisfactorily fitted on board. The approved plan has been retained for further reference.

The amount of Fee ... *2mkrs* 55.-

Travelling Expenses (if any) £ 15.-

When applied for,

14.6.1937

When received,

19.

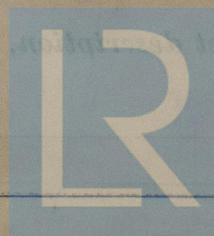
P. A. Matthews
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 1 FEB 1938

Assigned

See other F.B. report



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