

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21657

Received at London Office

5 OCT 1935

Writing Report 30-9-35 19 When handed in at Local Office 19 Port of Hamburg
 Date, First Survey 10-4-35 Last Survey 30-8-35 19
 Number of Visits 7

Survey held at Kiel
 on the Single Screw vessel "Marina"
 Tons { Gross
 Net

By whom built Deutsche Werft A.G. Yard No. 161 When built 1935
 Port belonging to

Engines made at Kiel By whom made Bohn & Kähler A.G. Contract No. 10348 When made 1935

Generators made at Bremen By whom made Allg. Elektrizität. Gesellsch. Contract No. 519828 When made 1935

Engine Brake Horse Power 36.5 Nom. Horse Power as per Rule 10.4 Total Capacity of Generators 15 Kilowatts.

ENGINE, &c. Type of Engines Bohn & Kähler K.R. 10 XV 2 or 4 stroke cycle 4 Single or double acting agl.

Mean pressure in cylinders 50 kg/cm² Diameter of cylinders 140 mm Length of stroke 190 mm No. of cylinders 4 No. of cranks 4

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 550 Flywheel dia. 750 mm Weight 315 kg Means of ignition Diesel syst. Kind of fuel used Diesel Oil

as per Rule 75.4 mm Mid. length breadth 110 mm Thickness parallel to axis solid
 Crank Shaft, dia. of journals 75 mm Crank pin dia. 75 mm Crank Webs shrunk
 as fitted 75 mm Mid. length thickness 43 mm Thickness around eyehole

as per Rule 75.4 mm Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 11 mm
 as fitted 70 mm as fitted

Means of lubrication forced

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes

Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Rotary Oil Pumps, No. and size 1 rotary of 350 kg/hour

Compressors, No. 1 No. of stages 2 Diameters 55/150 mm Stroke 100 mm Driven by Aut. Oil Eng. with clutch

Enging Air Pumps, No. 1 Diameter 55 mm Stroke 100 mm Driven by Aut. Oil Eng. with clutch

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

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

h Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Material Range of tensile strength Working pressure by Rules

rting Air Receivers, No. Total cubic capacity Internal diameter thickness

Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Allgemeine Elektrizität-Ges. Type AK 86

Pressure of supply 115 volts. Load 130 Amperes. Direct or Alternating Current D.C.

Alternating current system, state frequency of periods per second yes

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

they over compounded 5 per cent. yes, if not compound wound state distance between each generator

Are all terminals accessible, clearly marked, and furnished with sockets yes

Are the lubricating arrangements of the generators as per Rule yes

ANS. Are approved plans forwarded herewith for Shafting 3-5-35 Receivers yes Separate Tanks yes

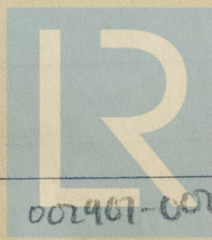
ARE GEAR

as required by the Rules and a number of parts in addition.

The foregoing is a correct description.

Bohn & Kähler
 Motoren- und Maschinenfabrik
 Aktiengesellschaft
 KIEL

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 16/4, 3/5, 10/6, 14/6, 7/8, 17/8, 30/8
During erection on board vessel - - - ✓
Total No. of visits 7

Dates of Examination of principal parts—Cylinders 14/6/35 Covers 14/6/35 Pistons 14/6/35 Piston rods ✓

Connecting rods 11/4/35 Crank and Flywheel shaft 7/8/35 Intermediate shaft ✓

Crank and Flywheel shafts, Material O.H. Steel Identification Mark LLOYD'S 1654 P.K. 7-8-35.

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case no If so, state name of vessel ✓

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 plan and instructions thereto. Material and workmanship are of good quality. In my opinion this generating set is eligible to be classed in the Society's Register Book with notation of +LMC with date as part of the machinery of the vessel for which it is intended, provided it be satisfactorily fitted on board.

The amount of Fee ... RM. 40.- When applied for, 7-9-1935
Travelling Expenses (if any) 10.- When received, 04-11-1935

J. A. Smith
Surveyor to Lloyd's Register of Shipping.

TUE. 18 FEB 1936 FRI. 13 MAR 1936

Committee's Minute TUE. 26 NOV 1935
Assigned See Ham. J.E. 21702



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