

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

Survey held at Kiel Date, First Survey 10-4-35 Last Survey 30-8-35 19
Number of Visits 7

on the Single Screw vessel "Marina" Tons { Gross _____ Net _____
Triple
Quadruple

at Hamburg By whom built Deutsche Werft A.G. Yard No. 161 When built 1935
Thorwald Berg 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

of Sets 1 Engine Brake Horse Power 36.5 Nom. Horse Power as per Rule 10.4 Total Capacity of Generators 15 Kilowatts.

ENGINES, &c. Type of Engines Bohn & Kähler K.R. 10 DV 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

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 solid
as fitted 75 mm Mid. length thickness 43 mm Thickness around eyehole _____

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

governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced

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

ing Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

ricating 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 Aux. Oil Eng. with clutch

enging Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

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 _____

ere a drain arrangement fitted at the lowest part of each receiver _____

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

less, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____

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

less, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____

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

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

alternating current system, state frequency of periods per second _____

the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes

erators, 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 _____

an adjustable regulating resistance fitted in series with each shunt field _____ Are all terminals accessible, clearly marked, and furnished with sockets yes

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

ANS. Are approved plans forwarded herewith for Shafting 3-5-35 Receivers _____ Separate Tanks _____
(If not, state date of approval)

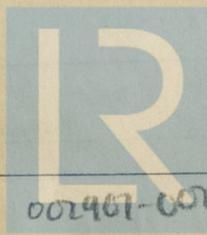
ARE GEAR _____

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

The foregoing is a correct description.

Bohn & Kähler
Motoren- und Maschinenfabrik
Aktiengesellschaft
KIEL

A. Wenzel Manufacturer.



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Lloyd's Register
Foundation

002461-00915-0245

Dates of Survey while building
 { During progress of work in shops - - } 16/4, 3/5, 11/6, 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.

Im. 6.31—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

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

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

TUE. 18 FEB 1936 FRI. 13 MAR 1936

TUE. 26 NOV 1935

Committee's Minute
 Assigned *See Ham. J.E. 21702*

