

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 22001
AUG 1936

Received at London Office

Date of writing Report 12/2/36 10 When handed in at Local Office 10 Port of Hamburg
No. in Survey held at Kiel Date, First Survey 17.5.36 Last Survey 21.7.36 19
Reg. Book. Number of Visits 6

Single
on the Twin
Triple
Quadruple } Screw vessel

REGULUS

Tons { Gross
Net

Built at Hamburg By whom built Deutsche Werft A.G. Yard No. 182 When built 1936
Owners Port belonging to

Oil Engines made at Kiel By whom made Bohn & Kähler A.G. Contract No. 10894 When made 1936

Generators made at Bremen By whom made Allg. Elektr. Gesellschaft Contract No. 523025 When made 1936

No. of Sets 1 Engine Brake Horse Power 10.4 Nom. Horse Power as per Rule 36.5 Total Capacity of Generators 22 Kilowatts.

IL ENGINES, &c.—Type of Engines Bohn & Kähler's type KR 10 V 2 or 4 stroke cycle 4 Single or double acting sgl.

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 318 kg Means of ignition Diesel syst. Kind of fuel used Diesel oil

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

Flywheel Shaft, diameter as per Rule 75.4 mm as fitted 70 mm Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 11 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 yes Are the exhaust pipes and water cooled or lagged with non-conducting material yes

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 500 ltrs per hour

Air Compressors, No. none No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. none Diameter Stroke Driven by

IR 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. none 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. none 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 Allgemeine Elektrizitäts-Gesellschaft'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 ✓ 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 3-5-35 Receivers Separate Tanks ✓
(If not, state date of approval)

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The foregoing is a correct description,

Bohn & Kähler

Motoren- und Maschinenfabrik

Aktiengesellschaft.

Manufacturer.



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Lloyd's Register
Foundation

005480-005488-0207

1936:-
Dates of Survey while building { During progress of work in shops - May: 17, June: 18 July: 8, 10, 17, 21
During erection on board vessel - - -
Total No. of visits 6

Dates of Examination of principal parts—Cylinders 17-8-36 Covers 3-7-36 Pistons 10-7-36 Piston rods -

Connecting rods 10-7-36 Crank and Flywheel shaft 10-7-36 Intermediate shaft -

Crank and Flywheel shafts, Material O.H. Steel Identification Mark LLOYD'S 277 H.B. 21-2-36.

Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case - If so, state name of vessel *Ham. Regt. no. 21667, m. D. Marina.*

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

This auxiliary oil engine generating set has been built under special Survey in accordance with the Society's Rules, the approved plans and instructions. Materials 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 +H.M. with date as part of the machinery of the vessel for which intended when it has been satisfactorily fitted on board. The approved plan has been retained for further reference.

The amount of Fee *Rmbr. £ 55.-*
Travelling Expenses (if any) *£ 10.-*
When applied for, *12-8-1936*
When received, *Sep 14 1936*

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

Committee's Minute
Assigned *See F.E. machy v.l.*