

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 233.

Received at London Office

Date of writing Report 23.3. 1938 When handed in at Local Office 30.3. 1938 Port of Düsseldorf

No. in Survey held at Cologne Date, First Survey 15.12.37. Last Survey 22.3. 1938
Reg. Book.

Number of Visits 5

Single
on the Twin
Triple
Quadruple
Screw vessel

none propeller Barge VMO

Tons { Gross
Net

Built at Slikerveer By whom built De Groot & van Vliet Yard No. 219 When built 1938

Owners Port belonging to

Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren A.G. Eng. No. 496330 When made 1938

Generators made at By whom made Contract No. When made

No. of ~~sets~~ 1 aux Engine Brake Horse Power 5 Nom. Horse Power as per Rule 1.4 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine MAH 711 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 80 mm Length of stroke 110mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 204 mm Is there a bearing between each crank yes

Revolutions per minute 1500 Flywheel dia. 520mm Weight 40 kg Means of ignition sol, inject. Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 50mm Crank pin dia. 54 mm Crank Webs Mid. length breadth 90mm Thickness parallel to axis 30mm
as fitted 50mm Mid. length thickness 30mm Thickness around eyeholeFlywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners
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

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 pump driven by an eccentric capacity 40 ltrs/h.

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 State No. of Report or Certificate

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

Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current

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

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 214033 1.10.37. Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR as per Rules.

The foregoing is a correct description,

Humboldt-Deutzmotoren
H. G. Langengesellschaft
H. G. Langengesellschaft

Manufacturer.



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Lloyd's Register
Foundation

W132-0136

Dates of Survey while building { During progress of work in shops - - } 15.12.37.- 15.2.- 24.2.- 9.3.- 21.3.- 22.3.
{ During erection on board vessel - - - }
{ Total No. of visits }
Liner: 24.2.-22.3.

Dates of Examination of principal parts - Cylinders 24.2. Covers 24.2. 22.3. Pistons 22.3. Piston rods

Connecting rods 15.12.- 22.3. Crank and Flywheel shafts 15.2.-24.2.- 22.3. Intermediate shafts

Crank and Flywheel shafts, Material S.M. Steel Identification Marks LLOYD'S 2968 H.B. 24.2.38.

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers

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 engine has been constructed under special survey in accordance with the Society's Rules and Regulations as well as with the approved plan and the instructions thereto. The material used in the constructions was found to be good and the workmanship satisfactory. The auxiliary engine has been tested on Maker's test bed in the presence of the undersigned under full load during 8 hours and 10% overload during 1 hour and was found working satisfactorily during these trials. After trials all working parts have been opened out for examination and were found in good condition.

A copy of this report has been sent to Rotterdam Surveyors.

The amount of Fee ... RM: 40.- When applied for, 1.4.1938
Travelling Expenses (if any) RM: 5.- When received, 12.5.1938
Committee's Minute TUE 20 SEP 1938
Assigned See Rot. 27262
When applied for, 1.4.1938
When received, 12.5.1938
13th May 38.
Seep. letter.
M. Jüngemann
Surveyor to Lloyd's Register of Shipping.