

AUXILIARY

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 223

mm. 687559

mm. 687591

Received at London Office

Date of writing Report 17.2. 1938 When handed in at Local Office 21.2. 1938 Port of Düsseldorf

No. in Survey held at Cologne

Date, First Survey 7.1.1938

Last Survey 17.2. 1938

Reg. Book.

Number of Visits 5

on the <sup>Single</sup>  
Twin  
Triple  
Quadruple

Screw vessel

Mr. G. Gundersman

Tons <sup>Gross</sup>  
Net

Built at Alblasserdam

By whom built N.V. Industr. Mij. "De Noord" Yard No. 571 When built 1938

Owners

Port belonging to

Oil Engines made at Cologne

By whom made Humboldt-Deutzmotoren AG ~~Köln~~ Nos. 482469/70

When made 1938

Generators made at

By whom made

Contract No.

When made

~~xxxxxx~~ 2 Aux. Engine Brake Horse Power 2x 25 Nom. Horse Power as per Rule 2 x 7.2 Total Capacity of Generators Kilowatts.

OIL ENGINES, &amp;c. Type of Engines Heavy Oil engine O M Z 117 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 45 kg/cm<sup>2</sup> Diameter of cylinders 125 mm Length of stroke 170 mm No. of cylinders two No. of cranks two

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 178 mm Is there a bearing between each crank yes

Revolutions per minute 750 Flywheel dia. 600 mm Weight 178 kgs Means of ignition sol. inject Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 70 mm Crank pin dia. 75 mm Crank Webs Mid. length breadth 102 mm Thickness parallel to axis 45 mm

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners

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 ~~xxxxxx~~ water cooled or lagged with non-conducting material no

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

Lubricating Oil Pumps, No. and size 1 tooth wheel pump capacity 522 lts/h. at 1275 rev. per min.

Air Compressors, No. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. two Diameter 220 mm Stroke 87 mm Driven by the engine

AIR RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate attached to the copy of this report sent to Rotterdam Office

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

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

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

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. 969 F.S. 29.8.36 Total cubic capacity 30 lts. Internal diameter 191 mm thickness 6.5 mm

Seamless, lap welded or riveted longitudinal joint seamless Material S.M. Steel Range of tensile strength 55-61.3 kg/mm<sup>2</sup> Working pressure by Rules 35 kgs/cm<sup>2</sup>

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 620580 A 19.8.37. Receivers 3436 7.7.33. Separate Tanks

SPARE GEAR As per Rules

Hereunder follow the particulars (marks, etc.,) of the starting air receiver:—

No. 969

LLOYD'S TEST

994 lbs.

W.P. 497 lbs.

F.S. 29.8.36.

The foregoing is a correct description,

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.



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Foundation

004394-004404-0283



Dates of Survey while building { During progress of work in shops - - )  
{ During erection on board vessel - - - )  
{ Total No. of visits

7.1., 17.1., 24.1., 3.2., 17.2. 1938.

Dates of Examination of principal parts—Cylinders 24/1, 17/2 Covers 24/1, 17/2 Pistons 17/2 Piston rods

Connecting rods 24/1, 3/2, 17/2

Crank ~~xxxxxxx~~ shafts 17/1, 24/1, 17/2

Identification LLOYD'S 2927 24.1.38 HB  
~~xxxxxxx~~ LLOYD'S 2928 24.1.38 HB

Crank and Flywheel shafts, Material S.M. Steel

Identification Marks

Intermediate shafts, Material

Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case yes If so, state name of vessel Levers Pacific Plantations, Sidney, Düsseldorf Report No. 90

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

These two auxiliary engines have been constructed under special survey in accordance with the Society's Rules and Regulations as well as with the approved plans and the instructions thereto. The material used in the construction was found to be good and the workmanship satisfactory. The auxiliary engines have been tested on Makers' test bed in the presence of the undersigned under full load during 7 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.

The main engine is also being built by Messrs. Humboldt-Deutzmotoren A.G.

A copy of this report has been forwarded to the Society's Rotterdam Office.

The amount of Fee ... £ :

Travelling Expenses (if any) £ :

When applied for,

19

When received,

19

W. Jünggemann

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 20 SEP 1938

Assigned

See Rot. 27252



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