

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 251

Rpt. 4c.

573039.

Received at London Office

MAY 26 1938

Date of writing Report 16.5.38. When handed in at Local Office 21.5.38. Port of Düsseldorf
 No. in Survey held at Cologne Date, First Survey 11.9.37. Last Survey 16.5. 1938
 Reg. Book. Number of Visits 4

Single
 on the Twin } Screw vessel
 Triple }
 Quadruple }

Tons { Gross
 Net

Built at Waterhuizen By whom built G. Pattje Yard No. 173 When built 1938

Owners Port belonging to

Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren A.G. Contract No. 502989 When made 1938

Generators made at By whom made Contract No. When made

No. of Sets 1 aux. Engine Brake Horse Power 10 Nom. Horse Power as per Rule 2,86 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c. Type of Engines Heavy oil engines M.A.H. 716 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 120 mm Length of stroke 160 mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 296 mm Is there a bearing between each crank yes

Revolutions per minute 1000 Flywheel dia. 2x650 mm Weight 2x82 kg Means of ignition sol. inject Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 70 mm as fitted 70 mm Crank pin dia. 75 mm Crank Webs Mid. length breadth 100 mm Mid. length thickness 42 mm Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 15 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 silencers water cooled or lagged with non-conducting material no

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 37 lts/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 214039 28.11.35. Receivers Separate Tanks
 (If not, state date of approval)

SPARE GEAR As per Rules

The foregoing is a correct description,

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.



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002784-002789-0071

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

11.9.- 10.12.- 6.5.- 16.5.-

Liners: 6.5.- 16.5.-
6.5.

Covers 6.5. 16.5. Pistons 16.5.

Piston rods

Connecting rods 10.12. 16.5.

Crank ~~shafts~~ shafts

11.9. 6.5. 16.5.

Intermediate shafts

Crank and ~~Intermediate~~ shafts, Material

Mangan Steel

Identification Marks Lloyd's 3221 H.B.6.5.38.

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 R. & W. Hawthorn Leslie & Co. Yard 60
Düsseldorf Report 108

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 construction was found to be good and the workmanship satisfactory. This 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.

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

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

The amount of Fee ... £ :

When applied for,

19

Travelling Expenses (if any) £ :

When received,

19

H. Brüggemann
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 2 SEP 1938

Assigned

See Braringen 34



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