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Auxiliary

London

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 248

Date of writing Report 10.5. 1938 When handed in at Local Office 15.5. 1938 Port of Dusseldorf
No. in Survey held at Cologne Date, First Survey 4.4. 38. Last Survey 10.5. 1938
Reg. Book. Number of Visits 6
on the Single }
Twin } Screw vessel
Triple }
Quadruple }
Built at Capelle By whom built Vuyk & Zoon Yard No. 646 When built 1938
Owners Port belonging to
Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren A.G. Contract No. When made 1938
Generators made at By whom made Contract No. When made
No. of Engines 1 Aux Engine Brake Horse Power 50 Nom. Horse Power as per Rule 14.3 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine OMZ 125 2 or 4 stroke cycle 2 Single or Double acting single
Maximum pressure in cylinder 50 kg/cm² Diameter of cylinders 175 mm Length of stroke 250 mm No. of cylinders 2 No. of cranks 2
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 238 mm Is there a bearing between each crank yes
Revolutions per minute 500 Flywheel dia. 1000 mm Weight 356 kg Means of ignition sol. inject Kind of fuel used oil on test bed gas
Crank Shaft, dia. of journals as per Rule 195 mm Crank pin dia. 105 mm Crank Webs Mid. length breadth 153 mm Thickness parallel to axis
as fitted 195 mm Mid. length thickness 56 mm Thickness around eyehole
Flywheel 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 water cooled or lagged with non-conducting material water cooled
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 10 ltrs/min. at 1110 r.p.m.
Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. two Diameter 340 mm Stroke 128 mm Driven by the engine itself

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 620630 17.3.32 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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010012- 010023- 0305

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

4.4.- 28.4.- 30.4.- 6.5.- 9.5.- 10.5.38.

Dates of Examination of principal parts—Cylinders 28.4. 10.5 Covers 28.4. 10.5 Pistons 10.5. Piston rods

Connecting rods 28.4. 6.5. 10.5 Crank and Flywheel shafts 4.4. 30.4. 10.5 Intermediate shafts

Crank and Flywheel shafts, Material ~~XXXXXXXXXX~~ S.M.Steel Identification Marks LLOYD'S 3205 H.B. 30.4.38.

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 Messrs. Vuyk & Zoon Yard 644 Düsseldorf Report 245

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 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 copy of this report has been sent to Rotterdam.

The amount of Fee ... £ : : When applied for, 19.
Travelling Expenses (if any) £ : : When received, 19.

Committee's Minute

Assigned

TUE. 25 OCT 1938

Mr. Hünigsmann
Surveyor to Lloyd's Register of Shipping.



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