

London

Auxiliary

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 248

Rpt. 4c:

omm: 687691.

Received at London Office

MAY 19 1938

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 } Screw vessel m. Fairingon Tons { Gross _____ Net _____
Twin }
Triple }
Quadruple }

Built at Capelle By whom built Vuyk & Zoon Yard No. 646 When built 1938

Owners _____ Port belonging to Eng. No. 511926-27
Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren A.G. When made 1938

Generators made at _____ By whom made _____ Contract No. _____ When made _____

No. of 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 _____ as fitted 195 mm Crank pin dia. 105 mm Crank Webs Mid. length breadth 153 mm Thickness parallel to axis _____
Mid. length thickness 56 mm Thickness around eyehole _____

Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule _____ as fitted _____ 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 ~~and steam~~ 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

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.....

M. H. Kingemann
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 25 OCT 1938

Assigned

See FE machy n. 101. 27419



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1 m. 5. 37. — Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)