

ber: No 4566 94/98.

Auxiliary

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 105.

14 NOV 1935

Writing Report 4th Nov 1935. When handed in at Local Office

Port of Düsseldorf

Survey held at

Bologne

Date, First Survey 3 October 1935 Last Survey 28th October 1935

Number of Visits 3.

Single
on the Twin
Triple
Quadruple

Screw vessel

Tons { Gross
Net

at Alblasertan

By whom built By. De Noord, Alblasertan. Yard No. 558 When built 1935.

Port belonging to

Engines made at Bologne-Deutz By whom made Humboldt Deutzmotoren A.G. Contract No. 35424/245 When made 1935.

Generators made at By whom made Contract No. When made

of Sets 2 Engine Brake Horse Power 50 Nom. Horse Power as per Rule 14 Total Capacity of Generators Kilowatts.

ENGINES, &c. Type of Engines Heavy oil engine. O.M.L. 114 2 stroke cycle Single or double acting

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 125 mm Length of stroke 170 mm No. of cylinders two No. of cranks two

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 450 Flywheel dia. 600 mm Weight 148 kg. Means of ignition sol. injection Kind of fuel used

Crank Shaft, dia. of journals as per Rule 40 mm as fitted 40 mm Crank pin dia. 45 mm Crank Webs Mid. length breadth 102 mm Mid. length thickness 45 mm Thickness parallel to axis Thickness around eye hole

Wheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 15 mm

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication by pressure.

the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled.

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

ricating Oil Pumps, No. and size 1 worm pump.

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

enging Air Pumps, No. two Diameter 220 mm Stroke 84 mm Driven by levers.

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

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

are a drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ing Air Receivers, No. Total cubic capacity Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type

sure of supply volts. Load Amperes. Direct or Alternating Current

Alternating current system, state frequency of periods per second

the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

erators, do they comply with the requirements regarding rating are they compound wound

they over compounded 5 per cent. , if not compound wound state distance between each generator

adjustable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets

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

NS. Are approved plans forwarded herewith for Shafting 14th March 1932. Receivers Separate Tanks

RE GEAR As per Rules

The foregoing is a correct description,

WED. 29 JAN 1936

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.



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Lloyd's Register
Foundation

004971-004981-0203

Dates of Survey while building { During progress of work in shops - - } 3. Oct. - 18. Oct. - 28th. October 1935.
{ During erection on board vessel - - - }
Total No. of visits

Dates of Examination of principal parts—Cylinders 3. 10. 35. Covers 3. 10. 35. Pistons 18. 10. 35. Piston rods

Connecting rods 18. 10. 35. Crank and Flywheel shaft 18. 10. 35. Intermediate shaft

Crank and Flywheel shafts, Material S. M. Steel. Identification Mark 16004 } 4. 10. 9. 10. 35.
16005 }

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes. If so, state name of vessel No. 493 Messrs. Ruy. de Noord, Alblasvordam, Dinslandorf report No. 48.

General Remarks (State quality of workmanship, opinions as to class, &c.) The engine is built in accordance with the approved plans and the requirements embodied in the Secretary's letter of the 17th March 1932, and otherwise in accordance with the requirements of the Rules. Materials and workmanship are of best quality, the outfit is ample. The engine has been tested under full working conditions for about four hours on the trial stage in machine shop and has given full satisfaction. After trial all working parts have been opened up and were found on examination in good condition. This engine has been built under special survey and will be fitted on board the vessel No. 558. in construction at Messrs. Ruy. de Noord of Alblasvordam. In my opinion this machinery is eligible for notation. ~~+~~ N.E. 11.35.

The amount of Fee ... RM: 160.00:

Travelling Expenses (if any) RM: 10.00:

When applied for,

19.....

When received,

29. 11. 19. 35

Amount
No. 7. 8451.
v. 5. 11. 35.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

WED. 29 JAN 1936

See J. E. Machy Report.



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