

Rpt. 4c.
omm. 673215

auxiliary
REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 273

JUL -7 1938

Received at London Office
Date of writing Report 28.6. 1938 When handed in at Local Office 6.7. 1938 Port of Düsseldorf
No. in Survey held at Cologne Date, First Survey 24.11. 1937 Last Survey 28.6. 1938
Reg. Book. Number of Visits 5
Single
on the Twin } Screw vessel
Triple }
Quadruple }
Built at Slikkerveer By whom built v/h De Groot & van Vliet Yard No. 218 When built 1938
Owners Port belonging to
Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren Engine No. 515733 When made 1938
Generators made at By whom made Contract No. When made
No. of Sets 1 Aux. Engine Brake Horse Power 15 Nom. Horse Power as per Rule 4.3 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil Engine M.J.H. 322 2 or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 145 mm Length of stroke 220 mm No. of cylinders 1 No. of cranks 1
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 176 mm Is there a bearing between each crank yes
Revolutions per minute 750 Flywheel dia. 850 mm Weight 180 kg. Means of ignition sol. inject. Kind of fuel used on test bed gas oil
Crank Shaft, dia. of journals as per Rule 78.7 as fitted 75 mm Crank pin dia. 75 mm Mid. length breadth 112 mm Thickness parallel to axis
Crank Webs Mid. length thickness 42 mm shrunk 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
Cooling Water Pumps, No. no 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 135 lts/h at 375 rev. per min.
Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—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 109510 1.10.37 Receivers. Separate Tanks
(If not, state date of approval)

SPARE GEAR As per Rules

The foregoing is a correct description,

Humboldt-Deutz

Aktiengesellschaft

Manufacturer.



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Lloyd's Register
Foundation

011047-011056-0105

Dates of Survey while building { During progress of work in shops - - 24.11.1937, 11.3., 14.6., 27.6., 28.6.1938
During erection on board vessel - - -
Total No. of visits

Liners: 14/6, 28/6
Dates of Examination of principal parts—Cylinders 14/6 Covers 14/6, 28/6 Pistons 28/6 Piston rods

Connecting rods 24/11, 14/6, 28/6. Crank ~~xxxxxxx~~ shaft 11/3, 14/6, 28/6. Intermediate shaft

Crank ~~xxxxxxx~~ shafts, Material Mangan Steel Identification Mark LLOYD'S 3325 H.B. 14.6.38.

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case yes If so, state name of vessel Maatsch. De Noord, Yard No. 563 (Düsseldorf Report No. 158)

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 Makers' 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.G., Köln.

A copy of this report has been forwarded to Rotterdam.

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

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

Committee's Minute
Assigned See F.E. machy rpt.

FRI 16 SEP 1938

Rpt. 4c.
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Im. 236.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)