

London

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 }

Tons { Gross  
Net

Naamlooze Scheepsbouwwerft

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/cm<sup>2</sup> 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 shrunken 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

011047-611056-0105

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 ~~XXXXXX~~ shaft 11/3, 14/6, 28/6. Intermediate shaft

Crank ~~XXXXXX~~ 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.

Rpt. 4c.  
Comm. 67  
67  
Date of writing  
No. in S  
Reg. Book.

Built at  
Owners  
Oil Engine  
Generators  
No. of S

OIL EN  
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PLANS  
SPARE

Im. 2.36.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

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

*W. Hingemann*  
Surveyor to Lloyd's Register of Shipping.

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

16 SEP 1938