

# REPORT ON OIL ENGINE ~~ELECTRIC~~ <sup>Auxiliary</sup> GENERATOR SETS.

No. 150

11 NOV 1936

Date of writing Report 26th. Octob. 1936. When handed in at Local Office 1936 Port of Duiseldorf  
 No. in Survey held at Cologne Date, First Survey 19th. October Last Survey 26th. October 1936  
 Reg. Book. Single on the Twin Triple Quadruple } Screw vessel  
 Built at Mann. & J. J. J. J. By whom built Hofkamp & Hampa Yard No. 767 When built  
 Owners Mann. & J. J. J. J. Port belonging to Cologne  
 Oil Engines made at Cologne By whom made Humboldt & Deutzmotoren A.G. Contract No. 409528/31 When made 1936  
 Generators made at Cologne By whom made Humboldt & Deutzmotoren A.G. Contract No. 409484/86 When made  
 No. of Sets 3 Engine Brake Horse Power 3 x 41 Nom. Horse Power as per Rule 3 x 13 Total Capacity of Generators 123 Kilowatts.

**IL ENGINES, &c.**—Type of Engines Steam Oil engine 43 M 220 2 or 4 stroke cycle 4 Single or double acting single  
 Maximum pressure in cylinders 45 kg/cm<sup>2</sup> Diameter of cylinders 170 mm Length of stroke 200 mm No. of cylinders 3 No. of cranks 3  
 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 550 Flywheel dia. 850 mm Weight 1450 kg Means of ignition liquid injection Kind of fuel used oil  
 Crank Shaft, dia. of journals as per Rule 120 mm Crank pin dia. 110 mm Crank Webs as fitted 120 mm Mid. length breadth 160 mm Thickness parallel to axis as fitted 120 mm Mid. length thickness 42.5 mm Thickness around eyehole shrunk  
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 16 mm  
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication by pressure  
 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled  
 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 10 inch Wheel Pump  
 Air Compressors, No. no No. of stages no Diameters no Stroke no Driven by no  
 Scavenging Air Pumps, No. no Diameter no Stroke no Driven by no

**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 Yes 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.** no Cubic capacity of each no Internal diameter no thickness no  
 Seamless, lap welded or riveted longitudinal joint no Material no Range of tensile strength no Working pressure by Rules no  
**Starting Air Receivers, No.** no Total cubic capacity no Internal diameter no thickness no  
 Seamless, lap welded or riveted longitudinal joint no Material no Range of tensile strength no Working pressure by Rules no

**ELECTRIC GENERATORS:**—Type no  
 Pressure of supply no volts. Full Load Current no Amperes. Direct or Alternating Current no  
 If alternating current system, state the periodicity no Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off no  
 Generators, are they compounded as per rule no is an adjustable regulating resistance fitted in series with each shunt field no  
 Are all terminals accessible, clearly marked, and furnished with sockets no  
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched no Are the lubricating arrangements of the generators as per Rule no  
 If the generators are under 100 kw. full load rating, have the makers supplied certificates of test no and do the results comply with the requirements no  
 If the generators are 100 kw. or over have they been built and tested under survey no  
**PLANS.** Are approved plans forwarded herewith for Shafting Yes Receivers no Separate Tanks no  
**APARE GEAR** as per Rules

The foregoing is a correct description,

Manufacturer:

Humboldt-Deutzmotoren  
 Aktiengesellschaft



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Lloyd's Register  
 Foundation

W1320-0067



19th. October und 26th. October 1936.

Dates of Examination of principal parts—Cylinders 19.10.36. Covers 19.10.36. Piston 19.10.36. Piston rods

Connecting rods. 19.10.36.

Crank and Flywheel shaft 19.10.36.

Intermeane shaft

Piston rods

*Crank and Flywheel shafts, Material*

C. A. Del.

Identification Mark 1049. 1050. 1051. 1052. 1053. 1054. 1055. 1056.

*Intermediate shafts. Material*

### Identification Marks

Is this machinery duplicate of a previous case. *Yes.* If so, state name of vessel *Mass. Anlo Caxon & Co. S. London. Lined*

General Remarks (State quality of workmanship, opinions as to class, &c. *Three engines are built in accordance with*

the approved plans and the requirements embodied in the Secretary's letter of the 7th. June 1934 in accordance with the requirements of the Rules. Materials and workmanship are of best quality, the outfit is ample. The engines have been tested under full working conditions for about four hours on the trial stage in machine shop and further half an hour with 10% overload with satisfactory results. After trial all working parts have been opened up and were found on examination in good condition. These three auxiliary engines have been built under special survey and will be fitted on board the "Officer Vind", "Fildon".

On my opinion these engines are eligible for notation of L.M.C. 11. 36.

The amount of Fee ... *240.00* } *278* 19.56 Acc. No. *9577*

Travelling Expenses (if any) £

When received,

When received,  
19-12-1936 21/102

*Surveyor to Lloyd's Register of Shipping*

FRI 18 JUN 1937

Committee's Minute

*Assigned*

See F.E. mcky rpt