

for London

Rpt. 4c.
Comm. 671167

AUXILIARY

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 194

Received at London Office JUN 29 1938

Date of writing Report 27. 9. 1937 When handed in at Local Office 30.9. 1937 Port of Dusseldorf
No. in Survey held at Cologne Date, First Survey 2.12. 1936. Last Survey 27.9. 1937.
Reg. Book. Number of Visits 4

Single
on the Twin } Screw vessel
Triple
Quadruple }
Built at Groningen By whom built J. Koster Hzn. Scheepswerft Yard No. 162. When built 1937
Owners Port belonging to
Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren AG Contract No. 466938 When made 1937
Generators made at By whom made Contract No. When made
No. of ~~Eng~~ 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 45 kgs/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. 2x 950 mm Weight each 234 kg Means of ignition solid inj. Kind of fuel used on test bed gas oil
Crank Shaft, dia. of journals as per Rule 75 mm Crank pin dia. 75 mm Mid. length breadth 112 mm Thickness parallel to axis
as fitted 75 mm Crank Webs Mid. length thickness 42 mm shrunk Thickness around eyehole
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 15 mm
as fitted 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. none 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/min. 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:—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 109510 12.2.36. Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR As per Rules

The foregoing is a correct description,

Humboldt-Deutzmotoren

Manufacturer.



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012066-012077-0020

Dates of Survey while building { During progress of work in shops - - 2.12.36., 30.7., 16.9., 27.9.37. During erection on board vessel - - - } Total No. of visits
Liner: 16/9, 27/9
Dates of Examination of principal parts—Cylinders 16/9 Covers 16/9, 27/9 Pistons 27/9 Piston rods
Connecting rods 30/7, 27/9 Crank ~~and~~ shafts 2/12.36, 16/9, 27/9 Intermediate shafts
Crank ~~and~~ shafts, Material Mangan Steel Identification Marks LLOYD'S 2648 H.B. 16.9.37.
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 N.V. Industrie.Mij. "DE NOORD",
General Remarks (State quality of workmanship, opinions as to class, &c. Alblasserdam, Yard No. 563,
(Düsseldorf Report No. 158)

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. The auxiliary engine has been tested on Maker's test bed in the presence
of the undersigned under full load and 10 % overload during 8 hours 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 for the same vessel will also be constructed at the works of Messrs.
Humboldt-Deutzmotoren A.G., Köln-Deutz.
A copy of this report has been forwarded to the Amsterdam Surveyors.

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

Committee's Minute TUE 5 JUL 1938
Assigned See Gro. 24

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



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