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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 Reg. Book. Date, First Survey 2.12. 1936. Last Survey 27. 9. 1937. Number of Visits 4

on the Single Twin Triple Quadruple Screw vessel Built at Groningen By whom built J. Koster Hzn. Scheepswerft Yard No. 162. When built 1937

Owners 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 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 as fitted 75 mm Crank pin dia. 75 mm Crank Webs Mid. length breadth 112 mm Mid. length thickness 42 mm Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 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. 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

SPARE GEAR As per Rules

The foregoing is a correct description,

Humboldt-Deutzmotoren

[Signature]

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

Dates of Examination of principal parts—Cylinders 16/9 Liner: 16/9, 27/9 Covers 16/9, 27/9 Pistons 27/9 Piston rods

Connecting rods 30/7, 27/9 Crank ~~shafts~~ shafts 2/12.36, 16/9, 27/9 Intermediate shafts

Crank ~~shafts~~ 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",
 Alblasserdam, Yard No. 563,
 General Remarks (State quality of workmanship, opinions as to class, &c. (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.

1 in. 5.37. — 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.....

M. Springemann
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 5 JUL 1938

Assigned *See Gro. 24*



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