

Order No. 754249.

pt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 61.

Received at London Office

30 MAR 1931

Date of writing Report February 31. When handed in at Local Office

Port of

DUSSELDORF

in Survey held at

Date, First Survey 8. I. 1931

Last Survey 7. I. 1931

Number of Visits four

1931

Single
on the Twin
Triple
Quadruple
Screw vessel

Tons
Gross
Net

uilt at

By whom built Y. Luit & Son

Yard No. 45 When built

ines made at Cologne - Peitz

By whom made Humboldt - Peitzmotoren A. G.

Engine No. 133 When made 1931

ey Boilers made at

By whom made

Boiler No. When made

e Horse Power 330

Owners Y. Luit

Port belonging to Groningen

Horse Power as per Rule 70

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

e for which vessel is intended

ENGINES, &c. Type of Engines Heavy Oil Engine 150 2 or 4 stroke cycle Single or double acting

um pressure in cylinders 40 kg. p. sq. cm Diameter of cylinders 280 mm Length of stroke 500 mm No. of cylinders six No. of cranks six

f bearings, adjacent to the Crank, measured from inner edge to inner edge 333 mm Is there a bearing between each crank yes

tions per minute 300 Flywheel dia. 1220 mm Weight 2200 kg Means of ignition fuel spray Kind of fuel used

t Shaft, dia. of journals as per Rule 140 mm Crank pin dia. 140 mm Crank Webs Mid. length breadth 260 mm Thickness parallel to axis

eel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thrust Shaft, diameter at collars as per Rule as fitted

Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted Is the tube screw shaft fitted with a continuous liner

e Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per rule as fitted Is the after end of the liner made watertight in the

r boss If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

iner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after end of the tube

If so, state type Length of Bearing in Stern Bush next to and supporting propeller

ier, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet

d of reversing Engines by cam shafts Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication

essure Thickness of cylinder liners 23 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with

ducting material water cooled If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

y Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Pumps worked from the Main Engines, No. One Diameter 130 mm Stroke 68 mm Can one be overhauled while the other is at work yes

connected to the Main Bilge Line No. and Size How driven

Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size one tooth wheel pump and one spare pump

independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

No. and size:—In Machinery Spaces In Pump Room

g, &c.

ndent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces

easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

fixed sufficiently high on the ship's side to be seen without lifting the platform plates Are the Overboard Discharges above or below the deep water line

each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

es pass through the bunkers How are they protected

es pass through the deep tanks Have they been tested as per Rule

ipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

angement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one

ent to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

r Compressors, No. one No. of stages two Diameters 130 x 150 mm Stroke 100 mm Driven by Main engine

y Air Compressors, No. No. of stages Diameters Stroke Driven by

axiliary Air Compressors, No. No. of stages Diameters Stroke Driven by

ing Air Pumps, No. Diameter Stroke Driven by

y Engines crank shafts, diameter as per Rule as fitted

ECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes

nternal surfaces of the receivers be examined and cleaned yes Is a drain fitted at the lowest part of each receiver yes

essure Air Receivers, No. Cubic capacity of each Internal diameter thickness

ss, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules Actual

ng Air Receivers, No. Three Total cubic capacity 500 liters each Internal diameter 450 mm thickness 12 mm

ss, lap welded or riveted longitudinal joint lapwelded Material Mild Steel Range of tensile strength 38.2 kg. p. sq. cm Working pressure by Rules Actual 25 kg. p. sq. cm

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

Is the donkey boiler intended to be used for domestic purposes only?

PLANS. Are approved plans forwarded herewith for Shafting. 18. II. 1927.

Receivers. 13. 12. 1927.

Separate Tanks. 5. IV. 1928.

Donkey Boilers.

General Pumping Arrangements.

Oil Fuel Burning Arrangements.

SPARE GEAR.

Has the spare gear required by the Rules been supplied. *yes*
State the principal additional spare gear supplied *as ordered by the owner.*

The foregoing is a correct description,

Humboldt-Deutzmotoren

Manufacturer.

Dates of Survey while building
During progress of work in shops--
During erection on board vessel--
Total No. of visits.

24. I. 30.; 8. I. 31.; 2. II. 1931. and 7. II. 1931.

Four.

Dates of Examination of principal parts—Cylinders 8. I. 31. Covers 8. I. 31. Pistons 8. I. 31. Rods. Connecting rods 7. II. 31.

Crank shaft 8. I. 31. Flywheel shaft Thrust shaft Intermediate shafts Tube shaft

Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts

Completion of filling sea connections. Completion of pumping arrangements Engines tried under working conditions

Crank shaft, Material 4. 16. Steel Identification Mark 14255K. 26. 27/10. 30. Flywheel shaft, Material Identification Mark

Thrust shaft, Material Identification Mark Intermediate shafts, Material Identification Marks

Tube shaft, Material Identification Mark Screw shaft, Material Identification Mark

Is the flash point of the oil to be used over 150° F.

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with.

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo. If so, have the requirements of the Rules been complied with.

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with.

Is this machinery duplicate of a previous case. *yes* If so, state name of vessel *see Disseld. Report 4. 6. 7 of 19.*

General Remarks (State quality of workmanship, opinions as to class, &c.) The engines are built in accordance with the approved plans and the requirements embodied in the Secretary's letters of 10th November and 13th December 1927 and otherwise in accordance with the requirements of the Rules. Materials and workmanship are of best quality. The outfit is simple and engines have tested under full working and manoeuvring conditions for about six hours in the trial stage in machine shop and has given full satisfaction. At trial all working parts have been opened up and were found on examination in good condition. This machinery has been built under special survey and will be fitted on board the vessel 75. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. Machinery is eligible for notation of *7. E. 2. 31.*

The amount of Entry Fee .. £ 2 : 0 :
Special ... £ 23 : 15 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 3 : 5 :
When applied for, 2. March 1931.
When received, 26. March 1931.

Committee's Minute

FRI. 24 JUL 1931

Assigned

See 7. E. Rpt.

FRI. 8 JAN 1932
TUE. 26 JAN 1932

Engineer Surveyor to Lloyd's Register of Shipping

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