

pt. 4b

REPORT ON OIL ENGINE MACHINERY.

No. 48017

30 MAY 1928

Date of writing Report 24th May 1928 When handed in at Local Office 26.5. Received at London Office
 No. in Survey held at Glasgow Date, First Survey 3.2.27 Last Survey 18.5.1928
 by Book.

Single
on the Twin
Triple
Quadruple
Screw vessel

VANCOLITE

Received at London Office

30 MAY 1928

Date, First Survey 3.2.27

Last Survey 18.5.1928

Number of Visits 136

18.5.1928

Built at Glasgow By whom built A. Stephen & Sons Ltd. Yard No. 518 When built 1928.5
 Engines made at Glasgow By whom made A. Stephen & Sons Ltd. Engine No. 518 When made 1928
 Monkey Boilers made at Glasgow By whom made B. Clark & Wilson Ltd. Boiler No. 6/1218 When made 1927
 Brake Horse Power 3300 Owners Imperial Oil Co. Ltd. Port belonging to Glasgow
 Nom. Horse Power as per Rule 1000 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which vessel is intended Carrying Petroleum in bulk.

ENGINES, &c.—Type of Engines Stephen Sulzer 2 or 4 stroke cycle 2 Single or double acting Single
 Maximum pressure in cylinders 500 lb.² Diameter of cylinders 680^{7/8} Length of stroke 1100^{7/8} No. of cylinders 4 Each Engine
 Width of bearings, adjacent to the Crank, measured from inner edge to inner edge 900^{1/2} No. of cranks 4
 Revolutions per minute 100 Flywheel dia. 2200^{7/8} Weight 12.5 tons Means of ignition Compression Kind of fuel used Heavy
 crank shaft, dia. of journals as per Rule 417^{7/8} Crank pin dia. 460^{7/8} Crank webs Mid. length breadth 765^{7/8} Thickness parallel to axis 290^{7/8}
 as fitted 460^{7/8} Mid. length thickness 290^{7/8} Shrank Thickness around eye hole 209^{7/8}
 wheel shaft, diameter as per Rule 417^{7/8} Intermediate Shafts, diameter as per Rule 11.9^{7/8} Thrust Shaft, diameter at collars as per Rule 417^{7/8}
 as fitted 460^{7/8} as fitted 15^{7/8} as fitted 460^{7/8}

Screw Shaft, diameter as per Rule None Screw Shaft, diameter as per Rule 13.06 Is the screw shaft fitted with a continuous liner No
 Bronze Liners, thickness in way of bushes as per Rule .80 as fitted .812 Thickness between bushes as per rule .60 as fitted .718 Is the after end of the liner made watertight in the
 propeller boss Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner No joints
 the liner 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
 two liners are fitted, is the shaft lapped or protected between the liners No

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner No joints
 the liner 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
 two liners are fitted, is the shaft lapped or protected between the liners No

Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft No Length of Bearing in Stern Bush next to and supporting propeller 5'-6"

Propeller, dia. 14'-0" Pitch 12'-9" No. of blades 4 Material Bronze whether Moveable Yes Total Developed Surface 61 sq. feet

Governor of reversing Engines Cams Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched Yes Means of lubrication

Thickness of cylinder liners 53^{13/16} Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with insulating material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine funnel

Bilge Water Pumps No. Three 2^{1/2} Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Bilge Pumps worked from the Main Engines, No. 4 Diameter 130^{7/8} Stroke 685^{7/8} Can one be overhauled while the other is at work Yes

Bilge Pumps connected to the Main Bilge Line { No. and Size Two, - 12^{7/8} x 10^{1/2} x 24, ✓ 9^{7/8} x 8^{1/2} x 18 ✓ How driven Stern

Bilge Pumps, No. and size One, - 12^{7/8} x 10^{1/2} x 24 Lubricating Oil Pumps, including Spare Pump, No. and size 2, - 90^{7/8} x 685^{7/8} ✓

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

Pipes, No. and size:—In Machinery Spaces Engine Room, 3^{1/2}; Boiler Room 2-3^{1/2}; Boiler Room in 38T, 1-3^{1/2} holds, &c. Foundry Cyl., Space 2-2^{1/2}; Foundry Pump Room, 1-2^{1/2} ✓

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-8^{1/2} (Bellant Pump), 1-3^{1/2} (Bilge Pump). ✓

all the Bilge Suction pipes in Hold, and Tunnel well fitted with strum-boxes Yes Are the Bilge Suctions in the Machinery Spaces

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

All Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes

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

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

Pipes pass through the bunkers None How are they protected —

Pipes pass through the deep tanks None Have they been tested as per Rule —

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

arrangement 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

partment to another Yes Is the Shaft Tunnel watertight None Is it fitted with a watertight door — worked from —

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

Air Compressors, No. Two ✓ No. of stages 3 Diameters 23^{1/2}, 23^{1/2}, 6^{1/2} Stroke 27 Driven by Main Compressor

Auxiliary Air Compressors, No. Two ✓ No. of stages 3 Diameters 13, 7^{1/2}, 3^{7/8} Stroke 9 Driven by Stern

Auxiliary Air Compressors, No. None No. of stages — Diameters — Stroke — Driven by —

Swing Air Pumps, No. Two. ✓ Diameter 1600^{7/8} Stroke 750^{7/8} Driven by Main Compressor

Auxiliary Engines crank shafts, diameter as per Rule None

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

Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Done & Done ✓

Are a drain arrangement fitted at the lowest part of each receiver Yes

Pressure Air Receivers, No. 4 Cubic capacity of each 150 litres Internal diameter 317^{7/8} thickness 13^{7/8} 2019

less, lap welded or riveted longitudinal joint Soldered Material 5.7.5 Range of tensile strength 28/32^{7/8} Working pressure by Rules 1120 lb.²

Spring Air Receivers, No. 4 Total cubic capacity 1080 litres Internal diameter 1000^{7/8} thickness 34^{7/8}

less, lap welded or riveted longitudinal joint Riveted Material 5.7.5 Range of tensile strength 46.5 cby Working pressure by Rules 66 kg.

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