

REPORT ON OIL ENGINE MACHINERY.

No. 8952
6 OCT 1930

Date of writing Report 2/10/19 When handed in at Local Office Port of Trieste
No. in Survey held at Turin & Monfalcone Date, First Survey 18th Dec 1929 Last Survey 10th Sept 1930
Reg. Book. 65178 on the Single Triple Quadruple Screw vessel Barbarigo Tons 7023 Gross 4250 Net

Built at Monfalcone By whom built launiere Nav. Triest. Yard No. 221 When built 1930
Engines made at Turin By whom made Fiat Stab. Grandi Mot. Engine No. 1638 When made 1930
Donkey Boilers made at Amman By whom made Lochran & Co. Ed. Boiler No. 11630 When made 1930
Brake Horse Power 4400 Owners Soc. Venetiana di N. a V. Port belonging to Venice
Nom. Horse Power as per Rule 4220 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
Trade for which vessel is intended India

See also Genoa Report No. 11457
OIL ENGINES, &c.—Type of Engines Fiat L 758 2 or 4 stroke cycle 2 Single or double acting single
Maximum pressure in cylinders 35 Kg. Diameter of cylinders 750 mm Length of stroke 1250 mm No. of cylinders 8 No. of cranks 8
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 1050 mm Is there a bearing between each crank yes
Revolutions per minute 100 Flywheel dia. 3400 mm Weight 15 tons Means of ignition Compress. Kind of fuel used Kiesel oil
Crank Shaft, dia. of journals as per Rule 467.4 mm Crank pin dia. 500 mm Crank Webs Mid. length breadth 800 mm Thickness parallel to axis 313 mm
as fitted 500 mm Mid. length thickness 310 mm shrunk Thickness around eye hole 222 1/2 mm
Flywheel Shaft, diameter as per Rule 362 mm Intermediate Shafts, diameter as per Rule 390 mm Thrust Shaft, diameter at collars as per Rule 380.9 mm
as fitted 500 mm in way of Flywheel as fitted 440 mm
Tube Shaft, diameter as per Rule — Screw Shaft, diameter as per Rule 396.9 mm Is the tube shaft fitted with a continuous liner yes
as fitted — as fitted 430 mm
Bronze Liners, thickness in way of bushes as per Rule 19.7 mm Thickness between bushes as per rule 14.3 mm Is the after end of the liner made watertight in the propeller boss yes
as fitted 22 mm as fitted 17 mm
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner yes
If 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 —
If two 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 shaft no Length of Bearing in Stern Bush next to and supporting propeller 1730 mm

Propeller, dia. 5000 mm Pitch 4700 mm No. of blades 4 Material bronze whether Moveable no Total Developed Surface 8.3 sq. feet
Method of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced
Thickness of cylinder liners 55 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine —
Cooling Water Pumps, No. Two 255 x 246 mm Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
One spare 120.
Bilge Pumps worked from the Main Engines, No. — Diameter — Stroke — Can one be overhauled while the other is at work —
Pumps connected to the Main Bilge Line No. and Size Two 50 tons One 150 tons
How driven Electric motors
Ballast Pumps, No. and size one 150 tons Lubricating Oil Pumps, including Spare Pump, No. and size Two gear pump on Main E. One independent 50 tons
Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, No. and size:—In Machinery Spaces 5 2 3" one in Tunnel Well 2 3"

In Holds, &c. No. 1, 2 2 3" - No. 2, 2 2 3" - No. 3, 2 2 3" - Deep Tank H 2 4" - No. 5, 2 2 3" - No. 6, 3 2 3"
Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size H 2 4 3/4"
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes yes Are the Bilge Suctions in the Machinery Spaces led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges yes
Are all Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks valves
Are 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 above
Are 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
What pipes pass through the bunkers — How are they protected —
What pipes pass through the deep tanks — Have they been tested as per Rule —
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
Is the 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 compartment to another yes Is the Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from top of eyeinders
If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork —

Main Air Compressors, No. 2 No. of stages 3 Diameters 690-610-135 Stroke 720 mm Driven by Main Engine
Auxiliary Air Compressors, No. 2 No. of stages 3 Diameters 310-270-65 Stroke 360 mm Driven by Diesel Engine
Small Auxiliary Air Compressors, No. 1 No. of stages 3 Diameters 185-165-42 Stroke 140 mm Driven by Hot salt Motor
Scavenging Air Pumps, No. 2 Diameter 1320 Stroke 1100 Driven by Main Engine
Auxiliary Engines crank shafts, diameter as per Rule 153 mm
as fitted 165 mm

IR 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 no What means are provided for cleaning their inner surfaces plugs at both ends
Is there a drain arrangement fitted at the lowest part of each receiver yes
High Pressure Blast Air Receivers, No. 2 Cubic capacity of each 200 litres Internal diameter 313 mm thickness 14 mm
Seamless, lap welded or riveted longitudinal joint Seamless Material steel Range of tensile strength 44-50 kg Working pressure by Rules 85.4 kg/cm
Starting Air Receivers, No. 36 20 at 500 Litr. Total cubic capacity 14800 litres Internal diameter 16 " 400 " thickness 17 " Working pressure by Rules 85.4 kg/cm
16 " 300 " Seamless, lap welded or riveted longitudinal joint Seamless Material steel Range of tensile strength 44-50 kg Working pressure by Rules 84 "

007430-007437 0097
Lloyd's Register Foundation

