

## REPORT ON OIL ENGINE MACHINERY.

No. 7385

Date of writing Report 15<sup>th</sup> Dec 1926 When handed in at Local Office Dec 28 1926 Port of Prieste  
 No. in Survey held at Shutts Date, First Survey Sep 17, 1925 Last Survey Dec 19, 1926  
 Reg. Book. 46434 Number of Visits 105

Single Marin Samudo Tons Gross 5958  
 Triple Shutts Net 3454  
 Quadruple Monfalcone  
 Built at Monfalcone By whom built Cantieri Navali Trieste Yard No. 158 When built 1926  
 Engines made at Shutts By whom made Stabilimento Soc. Trieste Engine No. 5055 When made 1926  
 Donkey Boilers made at Aunau By whom made Bochran & Co Ltd Boiler No. 9708 When made 1925  
 Brake Horse Power 489 Owners Soc. Veniziana di nav. a vapor Port belonging to Leviac  
 Nom. Horse Power as per Rule 489 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted yes  
 Trade for which vessel is intended

OIL ENGINES, &c.—Type of Engines Buxton & Wain Diesel 2 or 4 stroke cycle 4 Single or double acting Single  
 Maximum pressure in cylinders 35 kg/cm<sup>2</sup> Diameter of cylinders 740 Length of stroke 1500 No. of cylinders 6 No. of cranks 6  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 1004 Is there a bearing between each crank yes  
 Revolutions per minute 95 Flywheel dia. 2900 Weight 24,400 Means of ignition Compression Kind of fuel used Diesel oil  
 Crank Shaft, dia. of journals 470 as per Rule 472 Crank pin dia. 472 Crank Webs 317 Mid. length breadth 460 Thickness parallel to axis 310  
 as fitted 472 as fitted 472 as fitted 317 as fitted 317 Mid. length thickness 310 Thickness around eyehole 195  
 Flywheel Shaft, diameter 470 as per Rule 472 Intermediate Shafts, diameter 317 as per Rule 317 Thrust Shaft, diameter at collars 333  
 as fitted 472 as fitted 317 as fitted 317 as fitted 333  
 Tube Shaft, diameter 350 as per Rule 352 Is the screw shaft fitted with a continuous liner yes  
 as fitted 352 as fitted 352 as fitted 352  
 Bronze Liners, thickness in way of bushes 18 as per Rule 19 Thickness between bushes 13.5 as per rule 13.5 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 ✓  
 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 ✓  
 Length of Bearing in Stern Bush next to and supporting propeller 1450  
 Propeller, dia. 4720 Pitch 3440 No. of blades 4 Material Brass whether Moveable Solid Total Developed Surface 6.42 sq. feet  
 Method of reversing Engines Comp. Air (Brass) Is a governor or other arrangement fitted to prevent racing of the engine when disengaged yes Means of lubrication yes  
 Thickness of cylinder liners 58.5 Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting 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 to tunnel  
 Cooling Water Pumps, No. 1 centrifugal (Brass) 120 Gals. the sea suction provided with an efficient strainer which can be cleared within the vessel yes  
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 160 Stroke 220 Can one be overhauled while the other is at work yes  
 Pumps connected to the Main Bilge Line No. and Size 2 duplex 2 1/2 x 150 1 duplex 300 x 300  
 How driven by hand  
 Ballast Pumps, No. and size 1 duplex 300 x 300 Lubricating Oil Pumps, including Spare Pump, No. and size 2 @ 30 tons per hour  
 Are two independent means arranged for circulating water through the Oil Cooler not fitted Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, No. and size:—In Machinery Spaces 2 @ 90 2 @ 90 in affordance 1 @ 90 in thrust recess 1 @ 90 in tunnel well  
 In Holds, &c. 6 @ 3 1/2 in deep tank 4 @ 4" aft 4 @ 3 1/2" well in after hold 1 @ 3 1/2" well in after hold  
 Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2 @ 90 to bilge pumps 1 @ 180 to ballast pumps  
 Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes yes Are the Bilge Suctions in the Machinery Spaces yes  
 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 yes  
 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 see hull report Is it fitted with a watertight door yes worked from top platform  
 If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork yes

Main Air Compressors, No. 1 No. of stages 3 Diameters 150, 645, 150 Stroke 480 Driven by crank shaft  
 Auxiliary Air Compressors, No. 1 each Generators (3) of stages 3 Diameters 322, 288, 79 Stroke 140 Driven by 2 of Diesel engines  
 Small Auxiliary Air Compressors, No. 1 No. of stages 2 Diameters 80 & 32 Stroke 140 Driven by hand  
 Scavenging Air Pumps, No. 1 Diameter 150 Stroke 140 Driven by hand  
 Auxiliary Engines crank shafts, diameter as per Rule Gunatn engines Nos. 681, 686 & 649 built by AEG, Berlin  
Black bottles marked Nos. 222, 110 & 117 respectively 1-1850 lb. WP 925-1/3/25-JL

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes Starting air receivers & Aux. Host bottles  
 Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces Removable covers  
 Is there a drain arrangement fitted at the lowest part of each receiver yes  
 High Pressure Air Receivers, No. 3 Main & 3 Aux. Cubic capacity of each 2 @ 500 litres Internal diameter 480 thickness 20  
 Seamless, lap welded or riveted longitudinal joint Seamless Material S Range of tensile strength 44-50.5 Working pressure by Rules 84.5  
 Starting Air Receivers, No. 2 Total cubic capacity 3000 Internal diameter 1953 thickness 26.5  
 Seamless, lap welded or riveted longitudinal joint Riveted Material S Range of tensile strength 44-50 Working pressure by Rules 25



