

REPORT ON OIL ENGINE MACHINERY.

No. 11457

Date of writing Report 26.6.30 When handed in at Local Office 14/7/30 Port of GENOA. Received at London Office 18 JUL 1930
 No. in Survey held at TURIN. Date, First Survey AUGUST 13, 1929. Last Survey JUNE 24, 1930.
 Reg. Book. Number of Visits 56.

on the Single Screw vessel "BARBARIGO" Tons ^{Gross} _{Net}
 Built at MONFALCONE. By whom built CANT. NAV. TRIESTINO. Yard No. 221. When built 1930.
 Engines made at TURIN By whom made FIAT STABILIMENTO GRANDI MOTORI Engine No. 1638. When made 1930.
 Donkey Boilers made at By whom made Boiler No. When made
 Brake Horse Power 4,400. Owners SOCIETA VENEZIANA DI NAV A VAP. Port belonging to VENICE.
 Nom. Horse Power as per Rule (1220) Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted YES.
 Trade for which vessel is intended 1219.

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 Kgs. 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 1060 mm. Is there a bearing between each crank YES.
 Revolutions per minute 100. Flywheel dia. 3400 mm. Weight 15 TONS. Means of ignition COMPRESSION Kind of fuel used DIESEL 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 222.5 mm.
 Flywheel Shaft, diameter as per Rule 500 mm. Intermediate Shafts, diameter as per Rule 362 mm. Thrust Shaft, diameter at collars as per Rule 380.9 mm.
as fitted 500 mm. as fitted 390 mm. as fitted 440 mm.
 Tube Shaft, diameter as per Rule 396.9 mm. Screw Shaft, diameter as per Rule 430 mm. Is the tube shaft fitted with a continuous liner YES.
as fitted 396.9 mm. 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
 Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia. 5000 mm. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet
 Method of reversing Engines DIRECT Is a governor or other arrangement fitted to prevent racing of the engine when detached YES. Means of lubrication FORLED
 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
 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. 2. 255/011 x 246/7 STROKE. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 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 How driven
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size 2. GEAR PUMPS.
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, No. and size:—In Machinery Spaces
 In Holds, &c.

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size
 Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces
 ed from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges
 Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 Are they 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
 Are they 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
 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
 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 Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from
 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. TWO. No. of stages THREE. Diameters 670/610/135. Stroke 720 mm. Driven by MAIN ENGINES.
 Auxiliary Air Compressors, No. TWO. No. of stages THREE. Diameters 310/270/65. Stroke 360 mm. Driven by DIESEL ENGINES.
 Small Auxiliary Air Compressors, No. ONE. No. of stages THREE. Diameters 185/165/42. Stroke 140 mm. Driven by SEMI-DIESEL ENGINE.
 scavenging Air Pumps, No. TWO: TANDEM. Diameter 1320 mm. Stroke 1100 mm. Driven by MAIN ENGINES.
 Auxiliary Engines crank shafts, diameter as per Rule 153 mm. as fitted 165 mm.

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve
 Can the internal surfaces of the receivers be examined NO. 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. TWO. 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 H. Kg/cm².
 Starting Air Receivers, No. 36 20 @ 500 LITRES Total cubic capacity 14800 LITRES. Internal diameter 313 mm. thickness 14 mm.
16 @ 300 LITRES 400 mm. 17 mm.
 Seamless, lap welded or riveted longitudinal joint SEAMLESS Material STEEL. Range of tensile strength 44-50 Kg. Working pressure by Rules 85 H. & 84 Kg/cm².

