

REPORT ON OIL ENGINE MACHINERY

No. 8004

26 SEP 1931

Date of writing Report 9th Sept. 1931 When handed in at Local Office 21st Sept. 1931 Port of Bilbao

No. in Survey held at BILBAO Date, First Survey 29th Nov. 30 Last Survey 5th Sept. 1931

Reg. Book. 16593 on the Single Twin Triple Quadruple Screw vessel "CABO SAN AGUSTIN" Tons Gross 12588 Net 7251

Built at BILBAO By whom built SOC. ESPAÑOLA DE CONSTA NAVAL Yard No. 38 When built 1931

Engines made at AUGSBURG By whom made MASCH. FABRIK AUGSBURG-NURMBERG Engine No. 330520 When made 1931

Donkey Boiler made at BILBAO By whom made SOC. ESPAÑOLA DE CONSTA NAVAL Boiler No. 118 When made 1931

Brake Horse Power 2 x 4600 Owners MESSRS YBARRA Y CIA. Port belonging to SEVILLE

Nom. Horse Power as per Rule 2760 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES

Trade for which vessel is intended PASSENGER AND GENERAL CARGO.

IL ENGINES, &c.—Type of Engines M.A.N. DIESEL [SOLID INJECTION] 2 or 4 stroke cycle 2 Single or double acting DOUBLE

Maximum pressure in cylinders 45 ATM. Diameter of cylinders 600 M.M. Length of stroke 900 M.M. No. of cylinders 2 x 7 No. of cranks 2 x 7

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 885 M.M. Is there a bearing between each crank YES

Revolutions per minute 133 Flywheel dia. 2100 M.M. Weight 3120 KGS. Means of ignition DIESEL Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals as per Rule 420 M.M. Crank pin dia. 420 M.M. Crank Webs Mid. length breadth 560 M.M. Thickness parallel to axis shrunk

Flywheel Shaft, diameter as per Rule 420 M.M. Intermediate Shafts, diameter as per Rule 345 M.M. Thrust Shaft, diameter at collars as per Rule 400 M.M.

Tube Shaft, diameter as per Rule 420 M.M. Screw Shaft, diameter as per Rule 400 M.M. Is the screw shaft fitted with a continuous liner No

Bronze 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

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 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 Yes

If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after

end of the tube shaft YES, CEDERVAL'S "SALYO" Length of Bearing in Stern Bush next to and supporting propeller 1630 M.M.

Propeller, dia. 4650 M.M. Pitch 3960 M.M. No. of blades 4 Material MAN BRONZE whether Moveable YES Total Developed Surface 8810 M. 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 42.5 M.M. Are the cylinders fitted with safety valves YES Are the exhaust pipes and silencers water cooled or lagged with

an 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 Yes

Cooling Water Pumps, No. 3 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. 3 Diameter as fitted Stroke as fitted Can one be overhauled while the other is at work Yes

Pumps connected to the Main Bilge Line { No. and Size BILGE PMP 110 M³/HR. EMERGENCY PMP 110 M³/HR. BALLAST PMP 150 M³/HR. How driven BY ELECTRIC MOTOR & GEARS [DUPLIX DOUBLE ACTING].

Ballast Pumps, No. and size ONE 150 M³/HR. Lubricating Oil Pumps, including Spare Pump, No. and size 3 GEAR PUMPS 43 M³/HR.

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 6 x 76 M.M.

In Holds, &c. FOREPK. 1 x 76 M.M. NOS. 1, 2, & 3 HOLDS 2 x 76 M.M. EACH. NOS. 4 & 5 HOLDS 3 x 76 M.M. EACH. TUNNEL WELL 1 x 89 M.M.

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size BILGE PMP 1 x 140 M.M. EMERGENCY PMP 1 x 140 M.M. BALLAST PMP 1 x 200 M.M.

Are all the Bilge Suction pipes in Holds Yes Are the Bilge Suctions in the Machinery Spaces

and from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges YES, ALSO TUNNEL WELL.

Are all Sea Connections fitted direct on the skin of the ship ON CASTIRON EXTENSIONS. Are they fitted with Valves or Cocks VALYES.

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.

How are they protected Yes 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 YES. Is it fitted with a watertight door YES. worked from UPPER DK.

On 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. 2 No. of stages 3 Diameters 350/295/100 M.M. Stroke 220 M.M. Driven by AUX. ENGINES.

Auxiliary Air Compressors, No. 2 x 315 M³/HR. No. of stages 3 Diameters 350/295/100 M.M. Stroke 220 M.M. Driven by AUX. ENGINES.

Small Auxiliary Air Compressors, No. 1 x 10 M³/HR. No. of stages 1 Diameters as fitted Stroke as fitted Driven by EMER. ENGINE.

Refrigerating Air Pumps, No. 2 TANDEM. Diameter 1380 M.M. Stroke 820 M.M. Driven by MAIN ENGINE.

Auxiliary Engines crank shafts, diameter as per Rule 170 M.M. as fitted 170 M.M.

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

Can the internal surfaces of the receivers be examined YES. What means are provided for cleaning their inner surfaces MANHOLES [MAIN] REMOVABLE TOPS [AUX].

Is there a drain arrangement fitted at the lowest part of each receiver YES.

High Pressure Air Receivers, No. 2 Cubic capacity of each 100 LITRES. Internal diameter 100 M.M. thickness 17.5 M.M.

Working pressure by Rules 30 ATM. Material S.H. STEEL. Range of tensile strength 44/50 KGS/CM². Working pressure by Rules 30 ATM.

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Visits 106

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