

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 23 NOV 1931
 Date of writing Report 9th November 1931 When handed in at Local Office 10.11. 1931 Port of TRIESTE 23 NOV 1931
 No. in Survey held at VENICE Date, First Survey 31st Dec. 1930 Last Survey 5th Nov 1931
 Reg. Book. 39729 on the STEEL TWIN SCREW "CABO DELGADO" (Number of Vents 37)
 Built at VENICE By whom built CANTIERI NAVALI ED OFFICINE MECCANICHE DI VENEZIA Yard No. 74 Tons { Gross 372.5
 Engines made at VENICE By whom made CANT. NAV. ED OFF. MECC. DI VENEZIA Engine No. P 1577 S 1578 Net 121.0
 Boilers made at VENICE By whom made CANT. NAV. ED OFF. MECC. DI VENEZIA Boiler No. P 56 S 57 When built 1931
 Registered Horse Power 189 183 Owners GOVERNMENT OF PORTUGUESE COLONY Port belonging to PORTO AMELIA
 Nom. Horse Power as per Rule 159 183 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES
 Trade for which Vessel is intended TOWING SERVICES.

Engines, &c.—Description of Engines COMPOUND Revs. per minute 155
 Dia. of Cylinders 420⁷ 840⁷ Length of Stroke 480⁷ No. of Cylinders Two (EACH ENGINE) No. of Cranks Two (EACH ENGINE)
 Crank shaft, dia. of journals as per Rule 178⁷ as fitted 180⁷ Crank pin dia. 180⁷ Crank webs Mid. length breadth 220⁷ shrunk Thickness parallel to axis ✓
 Intermediate Shafts, diameter as per Rule 169.5⁷ as fitted NONE Thrust shaft, diameter at collars as per Rule 178⁷ as fitted 180⁷ Thickness around eye-hole ✓
 Tube Shafts, diameter as per Rule 190.5⁷ as fitted 195.0⁷ Is the { tube } shaft fitted with a continuous liner { No }
 Screw Shaft, diameter as per Rule 13.3⁷ as fitted 13.5⁷ Thickness between bushes as per Rule ✓ Is the after end of the liner made watertight in the
 Bronze Liners, thickness in away of bushes as fitted 13.5⁷ 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 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 810⁷
 Propeller, dia. 2100⁷ Pitch 2900⁷ No. of Blades 4 Material BRONZE whether Movable No Total Developed Surface 2.224 METRES sq. feet
 Feed Pumps worked from the Main Engines, No. Two Diameter 80⁷ Stroke 260⁷ Can one be overhauled while the other is at work YES
 Bilge Pumps worked from the Main Engines, No. Two Diameter 80⁷ Stroke 260⁷ Can one be overhauled while the other is at work YES
 Feed Pumps { No. and size ONE 90⁷ x 130⁷ ONE 100⁷ x 200⁷ Pumps connected to the { No. and size ONE 100⁷ x 200⁷ How driven STEAM
 Main Bilge Line How driven STEAM
 Ballast Pumps, No. and size ONE 100⁷ x 200⁷ Lubricating Oil Pumps, including Spare Pump, No. and size ✓
 Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room ONE 60⁷ TWO 55⁷;
 in Holds, &c. FOR HOLD ONE 55⁷;

Main Water Circulating Pump Direct Bilge Suctions, No. and size ONE 160⁷ Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size ONE 60⁷ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes YES
 Are the Bilge Suctions in the Machinery Space 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 BOTH
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold 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
 That Pipes pass through the bunkers NONE How are they protected ✓
 That pipes pass through the deep tanks ONE BILGE SUCTION PIPE THROUGH FORWARD HATCH 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 NONE Is it fitted with a watertight door ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 374 m² 4020 m²
 Forced Draft fitted NO No. and Description of Boilers Two SINGLE ENDED MARINE TYPE Working Pressure 11.5 Kg Cm²
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES 2SB.
 IS A DONKEY BOILER FITTED? NO If so, is a report now forwarded? ✓
 PLANS. Are approved plans forwarded herewith for Shafting YES Main Boilers YES Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 Superheaters ✓ General Pumping Arrangements YES Oil fuel Burning Piping Arrangements ✓

PARTIAL GEAR. State the articles supplied:—

One Connecting rod top end bearing complete with bolts & nuts.
 Two Connecting rod bottom end bolts & nuts; Two main bearing bolts; One quadrant block bearing complete;
 One set Coupling bolts; One set feed, bilge and air pump valves; One set piston springs;
 A quantity of assorted bolts & nuts; Iron of various sizes; Four piston pin ring studs for each piston;
 One set of cylinder relief valve springs; 3% Condenser tubes; 6% Condenser tube flanges;
 10% boiler smoke tubes; Ten boiler tube stoppers; Four screw stays; Two safety valve springs.

The foregoing is a correct description.

CANTIERI NAVALI E OFFICINE MECCANICHE DI VENEZIA

Manufacturer.



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Lloyd's Register
Foundation

Dates of Survey while building

During progress of work in shops - - 1930 Dec 31, 1931 Mar 17, 25, Apr 2, 29, May 1, 4, 11, 20, June 1, 11, 18, 25, July 4, 9, 24, 27, 28, 31, Aug 6, 11, 12, 23
During erection on board vessel - - - 1931 Aug 11, 12, 25, Sep 4, 14, 17, 23, Oct 2, 12, 19, 22, 23, Nov 5
Total No. of visits 37

Dates of Examination of principal parts—Cylinders 28.7.31 Slides 6.8.31 Covers 20.5.31
Pistons 3.7.31 Piston Rods 6.8.31 Connecting rods 31.7.31
Crank shaft 31.7.31 Thrust shaft 25.8.31 Intermediate shafts ✓
Tube shaft ✓ Screw shaft 12.8.31 Propeller 25.8.31
Stern tube 11.8.31 Engine and boiler seatings 25.8.31 Engines holding down bolts 17.9.31
Completion of fitting sea connections 4.9.31
Completion of pumping arrangements 23.10.31 Boilers fixed 2.10.31 Engines tried under steam 23.10.31
Main boiler safety valves adjusted 23.10.31 Thickness of adjusting washers FOR² BUR - P 14 3/4 AFTER BUR - P 9 7/8 S 12 1/2
Crank shaft material STEEL Identification Marks No 8799 A.C. 31.7.31 Thrust shaft material STEEL Identification Marks No 8797 A.C. 25.8.31
Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
Screw shaft, material STEEL Identification Mark No 205 A.C. 12.8.31 Steam Pipes, material STEEL Test pressure 35 kg/cm² Date of Test 2.10.31
Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. ✓
Have the requirements of the Rules for carrying and burning oil fuel been complied with ✓
Is this machinery duplicate of a previous case No If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
The Engines and Boilers have been built under Special Survey and satisfactorily fitted in the vessel. The materials and workmanship are good. On completion the machinery was tried under a full head of steam with satisfactory results.
The machinery throughout is now in a good and efficient condition, and eligible in my opinion for classification and the notation \boxplus L.M.C. 11.31.

Quota Office

Certificate to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 280 -
Special ... £ 4930 -
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) ... £ 3330 -
When applied for, 17/11/1931
When received, 8.1.1932

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned
+ L.M.C. 11.31
FRI. 4 DEC 1931
CERTIFICATE WRITTEN