

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

25 JUL 1925

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Port of Rotterdam

No. in Survey held at Rotterdam

Date, First Survey 14.1.25 Last Survey 15.4.1925

Reg. Book. on the Heel Train Service Steamer MARTICA

(Number of Visits 29) Gross Tons Net

Built at Rotterdam By whom built Rotterdamse Droogdok Mij Yard No. 102 When built 1915

Engines made at Rotterdam By whom made Rott Droogdok Mij Engine No. 110.111 when made 1915

Boilers made at Rotterdam By whom made Rott Droogdok Mij Boiler No. 304 & 305 when made 1915

Registered Horse Power Owners Curacausche Scheeps Mij Port belonging to Willemstad

Nom. Horse Power as per Rule 236 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended

**ENGINES, &c.**—Description of Engines Two sets of triple expansion Engines Revs. per minute 180  
Dia. of Cylinders 12 1/4 x 20 1/2 x 35 1/2 Length of Stroke 24 1/16 No. of Cylinders 6 3 No. of Cranks 3 6  
Crank shaft, dia. of journals as per Rule 172 160.4 mill Crank pin dia. 178 mill Crank webs Mid. length breadth 330 mill Thickness parallel to axis 150 mill  
as fitted 170 mill Mid. length thickness 112 mill Thickness around eye-hole 74 mill  
Intermediate Shafts, diameter as per Rule 164 mill Thrust shaft, diameter at collars as per Rule 172 160.4 mill  
as fitted 170 mill as fitted 170 mill  
Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 180 mill Is the shaft fitted with a continuous liner Yes  
as fitted 184 mill  
Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule 15 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 One length also 06.  
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 L Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Yes U.S. patent Length of Bearing in Stern Bush next to and supporting propeller 868 mill  
Propeller, dia. 0'3" Pitch 7-0 No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface 32 sq. feet  
Feed Pumps worked from the Main Engines, No. 2 x 1 Diameter 130 mill Stroke 100 mill Can one be overhauled while the other is at work Yes  
Bilge Pumps worked from the Main Engines, No. 2 x 1 Diameter 130 mill Stroke 100 mill Can one be overhauled while the other is at work Yes  
Feed Pumps No. and size 2 Wauerpump 6 x 8 1/2 x 18" Pumps connected to the Main Bilge Line No. and size 2. 6 x 1 1/2 x 6" 7 1/2 x 5 x 6" How driven Steam  
Ballast Pumps, No. and size 6 x 7 1/2 x 6" Lubricating Oil Pumps, including Spare Pump, No. and size L  
Are two independent means arranged for circulating water through the Oil Cooler L Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 4 à 3 1/2" One in Well à 1 1/2" in bunker 1 à 2"  
In Holds, &c. One in forehold à 3" One in fore peak flat à 2" 3 in pump room à 2" 6 suction in  
Coyney spaces connected to main cargo line but fitted with non return valves  
Main Water Circulating Pump Direct Bilge Suctions, No. and size One à 3 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One à 3 1/2"  
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  
What Pipes are carried through the bunkers None 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 No tunnel Is it fitted with a watertight door worked from

**MAIN BOILERS, &c.**—(Letter for record 5) Total Heating Surface of Boilers 4168 sq. ft. 25B.  
Is Forced Draft fitted Yes No. and Description of Boilers 2 single ended Marine Working Pressure 100 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?

**PLANS.** Are approved plans forwarded herewith for Shafting No Main Boilers No Auxiliary Boilers Donkey Boilers  
(If not state date of approval) 24.11.25 24.11.25

Superheaters General Pumping Arrangements No Oil fuel Burning Piping Arrangements No

**SPARE GEAR.** State the articles supplied:— One set of tapered bolts and nuts, One set of bottom end bolts and nuts, one set of main bearing bolts and nuts, one set of coupling bolts  
One set of piston rings, one set of feed and bilge pump valves, a quantity of assorted bolts and nuts and iron of various sizes and further as per attached list of spare vessels

The foregoing is a correct description,

ROTTERDAMSCHЕ DROOGDOX MAATSCHAPPIJ  
Onder-Directeur

Manufacturer.



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Foundation

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