

# REPORT ON MACHINERY.

No. 5156<sup>b</sup>

Port of Rotterdam

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No. in Survey held at Flushing & Hendrik Ids Ambed Date, first Survey 17 July, 1906 Last Survey 20 March 1907

Reg. Book. 2. Sup: on the Steel S.S., La Platense (Number of Visits 14)

Master J. Bunny Built at H.I. Ambacht By whom built Jonker & Stans. Tons { Gross 669.47  
Net 406.96  
When built 1906-12

Engines made at Gt. Yarmouth By whom made Crabtree & Co. L<sup>d</sup> when made 1906

Boilers made at Flushing By whom made Kon. Maets. de Schelde when made 1906

Registered Horse Power - Owners Company La Platense Port belonging to Bueno Ayres

Nom. Horse Power as per Section 28 69 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines See London Rpt No. 69315 No. of Cylinders 2 No. of Cranks 2

Dia. of Cylinders - Length of Stroke - Revs. per minute - Dia. of Screw shaft as per rule Material of screw shaft -

Is the screw shaft fitted with a continuous liner the whole length of the stern tube - Is the after end of the liner made water tight in the propeller boss -

If the liner is in more than one length are the joints burned - 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 - Length of stern bush -

Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin - Size of Crank webs - Dia. of thrust shaft under collars -

Dia. of screw - Pitch of Screw - No. of Blades - State whether moveable - Total surface -

No. of Feed pumps - Diameter of ditto - Stroke - Can one be overhauled while the other is at work -

No. of Bilge pumps - Diameter of ditto - Stroke - Can one be overhauled while the other is at work -

No. of Donkey Engines One Sizes of Pumps - No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room One 2" centre suction In Holds, &c. All 2" - 1 in fore tank, 2 in No. 1 hold, 2 in No. 2 hold, 1 in after tank.

No. of Bilge Injections 1 sizes 4" Connected to condenser or to circulating pump - Is a separate Donkey Suction fitted in Engine room & size yes 2"

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes

Are all connections with the sea direct on the skin of the ship Yes Are they 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 Discharge Pipes 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 -

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Dates of examination of completion of fitting of Sea Connections 12 Dec 06 of Stern Tube 12 Dec. Screw shaft and Propeller 12 Dec.

Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door - worked from -

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Hoerder B & W Verein, Thyssen & Co

Total Heating Surface of Boilers 1450 Is Forced Draft fitted no No. and Description of Boilers one single ended marine

Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbs Date of test 29/9/06 No. of Certificate 233

Can each boiler be worked separately ✓ Area of fire grate in each boiler 49 sq ft. No. and Description of Safety Valves to each boiler 2 Spring loaded

Area of each valve 7.07 sq Pressure to which they are adjusted 130 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork over 12" Mean dia. of boilers 12'-4 1/8" Length 10'-6" Material of shell plates steel

Thickness 13/16 Range of tensile strength 27-32 T Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap, all riv

long. seams all butt 5x4 Diameter of rivet holes in long. seams 7/8" Pitch of rivets 5 13/16" Lap of plates or width of butt straps 13 3/8"

Per centages of strength of longitudinal joint rivets 95 Working pressure of shell by rules 133 lbs Size of manhole in shell 12" x 16"

Size of compensating ring Al. Seil's No. and Description of Furnaces in each boiler 3 Morrison's Material steel Outside diameter 40"

Length of plain part top - bottom - Thickness of plates crown 15/32 Description of longitudinal joint welded No. of strengthening rings -

Working pressure of furnace by the rules 155 lbs Combustion chamber plates: Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4"

Pitch of stays to ditto: Sides 7 1/2 x 8" Back 7 7/8" Top 7 1/2 x 8" If stays are fitted with nuts or riveted heads riveted Working pressure by rules 18 1/2 lbs

Material of stays Steel Diameter at smallest part 1.22 Area supported by each stay 60.12 Working pressure by rules 162 End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 19" x 16" How are stays secured 5 nuts Working pressure by rules 139 lbs Material of stays steel

Diameter at smallest part 2 7/8" Area supported by each stay 308.5 Working pressure by rules 143 Material of Front plates at bottom steel

Thickness 27/32 Material of Lower back plate steel Thickness 21/32 Greatest pitch of stays 12 1/2 x 7 7/8" Working pressure of plate by rules 136 lbs

Diameter of tubes 3 1/2" Pitch of tubes 4 7/8 x 4 3/4" Material of tube plates steel Thickness: Front 27/32" Back 3/4" Mean pitch of stays see plan

Pitch across wide water spaces 14" Working pressures by rules 130 lbs Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8" x 1 1/4"

Length as per rule 29" Distance apart 8" Number and pitch of stays in each 3 - 7 1/2"

Working pressure by rules 150 lbs Superheater or Steam chest; how connected to boiler - Can the superheater be shut off and the boiler worked separately ✓

Diameter - Length - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes -

Pitch of rivets - Working pressure of shell by rules - Diameter of flue - Material of flue plates - Thickness -

If stiffened with rings - Distance between rings - Working pressure by rules - End plates: Thickness - How stayed -

Working pressure of end plates - Area of safety valves to superheater - Are they fitted with easing gear -

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