

REPORT ON MACHINERY.

No. 2367
MUN. 28 FEB 1910

Received at London Office

Date of writing Report 23-2-10 When handed in at Local Office 23-2-10 Port of Trieste
 No. in Survey held at Monfalcone Date, First Survey 19-10-09 Last Survey 22-2-10
 Reg. Book. S.S. SARAJEVO (Number of Visits 12)
 Master Glasgow Built at Monfalcone By whom built Cantiere Navale Triestino When built 1910
 Engines made at Glasgow By whom made Barclay Currier & Co when made 1910
 Boilers made at Glasgow By whom made D. J. when made 1910
 Registered Horse Power _____ Owners Lloyd Austriaco Port belonging to Trieste
 Nom. Horse Power as per Section 28 247 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 21.35.16 Length of Stroke 36 Revs. per minute 102 Dia. of Screw shaft as per rule Material of screw shaft as fitted
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight in the propeller Yes
 Is the liner in more than one length Yes If the liner does not fit tightly at the part See particulars of Glasgow Report 27834
 bearings in the stern tube See Glasgow Report 27834 Is the space between the liners filled with a plastic material insoluble in water and non-corrosive If two liners are fitted, are the shafts lapped or protected between the liners Yes
 Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as fitted Dia. of Crank pin as fitted Size of Crank webs _____ Dia. of thrust shaft under collars _____
 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 2 Sizes of Pumps 8 x 6 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps. In Engine Room 2 1/4, Bilge 2 1/4, Tanks 2 1/4, In Holds, &c. 2 1/4, Sumps 2 1/4, Sumps well 2 1/4
 No. of Bilge Injections 1 sizes 5 1/2 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 2 1/2
 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 19/10/09 of Stern Tube 19/10/09 Screw shaft and Propeller 19/10/09
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform

BOILERS, &c.—(Letter for record _____) Manufacturers of Steel _____
 Total Heating Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 Can each boiler be worked separately Yes Area of fire grate in each boiler _____ No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 5.90 Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 1-3 Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 Per centages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 Size of compensating ring _____ No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____
 Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
 Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 Material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____
 Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
 Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 Working pressure by rules _____ 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 _____

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves *Spring loaded* No. of Safety Valves *2* Area of each *3 1/4"* Pressure to which they are adjusted *120 lbs* Date of adjustment *12-1-10*

If fitted with casing gear *Yes*. If steam from main boilers can enter the donkey boiler *No*. Dia. of donkey boiler _____ Length _____

Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Rivets _____ Plates _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____

Working pressure of shell by rules _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays to do. _____ Dia. of stays _____

Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Radius of do. _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied: *Propeller shaft. 2 each of top & bottom & main bearing bolts, one set of coupling bolts, push ring studs, feed & bilge pump valves, bolts nuts, assorted iron.*

The foregoing is a correct description, **CANTIERE NAVALE TRIESTINO**
Manufacturer. *Fillary*

Dates of Survey while building: During progress of work in shops - *909*
During erection on board vessel - *209*
Total No. of visits *12*

1910.
Oct. 19, Nov. 9, 16, 19, 30. Dec. 4, 11, 28. Jan 8-12, Feb. 22

Is the approved plan of main boiler forwarded herewith *No*

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____ Pistons _____ Rods _____

Connecting rods _____ Crank shaft _____ Thrust shaft _____ Tunnel shafts _____ Screw shaft _____ Propeller _____

Stern tube _____ Steam pipes tested *4-12-09* Engine and boiler seatings *19-10-09* Engines holding down bolts *28-12-09*

Completion of pumping arrangements *28-12-09* Boilers fixed *28-12-09* Engines tried under steam *22-2-10*

Main boiler safety valves adjusted *8-1-10* Thickness of adjusting washers *3/16*

Material of Crank shaft _____ Identification Mark on Do. _____ Material of Thrust shaft _____ Identification Mark on Do. _____

Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts _____ Identification Marks on Do. _____

Material of Steam Pipes *Copper solid drawn* Test pressure *360 lbs.*

General Remarks (State quality of workmanship, opinions as to class, &c.) *This machinery has been satisfactorily fitted on board the vessel & tested under steam & the case is in my opinion eligible for the notation thereon.*

Date of build of Machinery *to be recorded as 1910*

ARK
1.3.10

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 2.10.

JWD
25/3/10

The amount of Entry Fee _____ When applied for, _____

Special *258-80* *23/2/10*

Donkey Boiler Fee _____ When received, _____

Travelling Expenses (if any) *80-40* *25/2/10*

L. W. Ritchie
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

TUES. 1 MAR 1910

Assigned

+ L.M.C. 2.10



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Write 'Sheer Stroke' opposite its corresponding letter.

Date of writing Report _____

No. in Survey he Reg. Book. _____ on the _____

Master _____

Engines made at _____

Boilers made at _____

Registered Horse _____

Nom. Horse Power _____

ENGINES, & _____

Dia. of Cylinders _____

Is the screw shaft in the propeller between the bearings liners are fitted, _____

Dia. of Tunnel shaft collars _____

No. of Feed pumps _____

No. of Bilge pumps _____

No. of Donkey Engines in Engine Room _____

No. of Bilge Injectors _____

Are all the bilge Are all connecti Are they fixed s Are they each fl What pipes ar Are all Pipes, Are the Bilge Dates of exam Is the Screw BOILERS, Total Heatin Working Pr Can each boi each boiler S Smallest dista Thickness / long. seams Per centages Size of comp Length of p Working pr Pitch of sta Material of Material Area Thickness Diameter Pitch ac thickness Working separately holes If stiffene Working