

REPORT ON MACHINERY.

Port of London

Received at London Office TUES 5 JAN 1897

No. in Survey held at London Date, first Survey 12 May '96 Last Survey 5th July 1897
 Reg. Book. on the SS. S. Wenzimvubi (Number of Visits 22) Gross 150 Net 90
 Master M. Farlane Built at London By whom built Edward Stee When built 1896
 Engines made at London By whom made J.A. Young & Son when made 1896
 Boilers made at " By whom made " when made 1896
 Registered Horse Power 70 Owners J.H. Mills & Co Port belonging to London
 Nom. Horse Power as per Section 28 69 37 Is Electric Light fitted No.

ENGINES, &c.—Description of Engines Comp. Surface Condensing No. of Cylinders Two No. of Cranks Two
 Diameter of Cylinders 10 1/2 Length of Stroke 15 Revolutions per minute 180 Diameter of Screw shaft 3 7/8
 Diameter of Tunnel shaft 3 7/8 Diameter of Crank shaft journals 3 7/8 Diameter of Crank pin 3 7/8 Size of Crank webs 4 3/4 x 2 7/8
 Diameter of screw 4-9 Pitch of screw 7 3' No. of blades 3 State whether moveable No Total surface abt. 12 sq
 No. of Feed pumps One Diameter of ditto 1 7/8 Stroke 7 1/2 Can one be overhauled while the other is at work No
 No. of Bilge pumps One Diameter of ditto 1 7/8 Stroke 7 1/2 Can one be overhauled while the other is at work No
 No. of Donkey Engines One Sizes of Pumps 3' dia x 8" Hk No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Three 2" dia In Holds, &c One 2" dia to Fore & after Tanks
 Holds and one each to Fore & after Tanks
 No. of bilge injections 1 sizes 2 Connected to condenser, or to circulating pump later Is a separate donkey suction fitted in Engine room & size 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 no
 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
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock new Is the screw shaft tunnel watertight yes
 Is it fitted with a watertight door no worked from Access to Tunnels from Hold only

BOILERS, &c.— (Letter for record a) Total Heating Surface of Boilers 880 Is forced draft fitted No
 No. and Description of Boilers One Multi-tubular Working Pressure 100lb Tested by hydraulic pressure to 200lb
 Date of test 16/10/96 Can each boiler be worked separately Yes Area of fire grate in each boiler 40 sq No. and Description of safety valves to each boiler Two Spring
 Area of each valve 4.9 sq Pressure to which they are adjusted 100lb Are they fitted with easing gear yes
 Length 9-2 Material of shell plates Steel Thickness 7/8 Description of riveting: circum. seam Lap. D Riv long. seams D.S. D Riv
 Diameter of rivet holes in long. seams 7/8 Pitch of rivets 3.562 Lap of plates or width of butt straps 10
 Per centages of strength of longitudinal joint rivets 80.0 Working pressure of shell by rules 100.566 Size of manhole in shell 16 x 12
 Size of compensating ring Plate 5/8 No. and Description of Furnaces in each boiler Two Plain Material S Outside diameter 4'0
 Length of plain part top 6-0 crown 9/16 Description of longitudinal joint Welded No. of strengthening rings None
 bottom 6-0 bottom 9/16
 Working pressure of furnace by the rules 112lb Combustion chamber plates: Material S Thickness: Sides 1/2 Back 1/2 Top 3/4 Bottom 1/2
 Pitch of stays to ditto: Sides 8 x 8 Back 7 1/2 x 6 3/4 Top None If stays are fitted with nuts or riveted heads Riv. Heads Working pressure by rules 100lb
 Material of stays Iron Diameter at smallest part 1 1/32 Area supported by each stay 50 sq Working pressure by rules 118 1/2 lb End plates in steam space:
 Material S Thickness 5/8 Pitch of stays 12 x 11 How are stays secured Double Nut & Washer Working pressure by rules 138 9/16 Material of stays Iron
 Diameter at smallest part 2 Area supported by each stay 132 sq Working pressure by rules 142 lb Material of Front plates at bottom S
 Thickness 9/16 Material of Lower back plate S Thickness 9/16 Greatest pitch of stays abt. 10 Working pressure of plate by rules 109 lb
 Diameter of tubes 3 Pitch of tubes 4 1/4 x 4 Material of tube plates S Thickness: Front 5/8 Back 5/8 Mean pitch of stays 8 1/2 x 8
 Pitch across wide water spaces No wide Working pressures by rules — Girders to Chamber tops: Material None 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 None 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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DONKEY BOILER— Description

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

Working pressure tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____

Description of riveting long. seams _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____

Lap of plating _____ Per centage of strength of joints _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

Thicknes of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____

Di. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____

Thicknes of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____

Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

In addition to the Gear required by Rules, the following articles have been supplied:— Two Propellers Ten Feet for Condenser Six Inch Ring Bolt, Spare Cing Pump Valves and Springs for Safety and Pump Escape Valves.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - - - From 12th May '96 to 3rd December '96.

During erection on board vessel - - - From 3rd December '96 to 5th January 1897.

Total No. of visits _____

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Machinery of this vessel has been constructed under Special Survey. The material and workmanship are good and satisfactory.

The Engine and Boiler of this vessel are in good order and safe working condition and in my opinion eligible to be notified in The Register Book + L.M.C. 1. '97.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 1. 97.

R.S.
5.1.97

R.B.
5/1/97

Certificate (if required) to be sent to

The amount of Entry Fee.. £ 1 : - : -

Special (£8:0:0) £ 89 : 0 : 0

Donkey Boiler Fee .. . £ - : - : -

Travelling Expenses (if any) £ - : - : -

When applied for, 5 Jan 97

When received, 5/1/97

R.S.
5/1/97

R.B.
5/1/97

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

Committee's Minute

TUES 5 JAN 1897

Assigned

+ L.M.C. 1. 97



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