

REPORT ON MACHINERY.

No. **13536**

WED. 20 MAR 1895

Port of _____ Received at London Office _____ 18

No. in Survey held at _____ Date, first Survey _____ Last Survey _____ 18

Reg. Book. _____ (Number of Visits _____)

on the **Donkey Boiler of S. Semiramis.** Tons $\left\{ \begin{array}{l} \text{Gross} \\ \text{Net} \end{array} \right.$ _____

Master _____ Built at _____ By whom built _____ When built _____

Engines made at _____ By whom made _____ when made _____

Boilers made at _____ By whom made _____ when made _____

Registered Horse Power _____ Owners _____ Port belonging to _____

Nom. Horse Power as per Section 28 _____

ENGINES, &c. — Description of Engines _____ No. of Cylinders _____

Diameter of Cylinders _____ Length of Stroke _____ Revolutions per minute _____ Diameter of Screw shaft _____ as per rule _____ as fitted _____

Diameter of Tunnel shaft _____ as per rule _____ Diameter of Crank shaft journals _____ Diameter of Crank pin _____ Size of Crank webs _____ as fitted _____

Diameter 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 _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____

In Engine Room _____ In Holds, &c. _____

No. of bilge injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate donkey suction fitted in Engine room & size _____

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

Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the discharge pipes above or below the deep water line _____

Are they each fitted with a discharge valve always accessible on the plating of the vessel _____ Are the blow off cocks fitted with a spigot and brass covering plate _____

What pipes are carried through the bunkers _____ How are they protected _____

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times _____

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges _____

When were stern tube, propeller, screw shaft, and all connections examined in dry dock _____ Is the screw shaft tunnel watertight _____

Is it fitted with a watertight door _____ worked from _____

BOILERS, &c. — (Letter for record **S.**) Total Heating Surface of Boilers **587 sq. ft.**

No. and Description of Boilers **one cylindrical return tubular** Working Pressure **165 lbs** Tested by hydraulic pressure to **330 lbs**

Date of test **7.12.94** Can each boiler be worked separately _____ Area of fire grate in each boiler **20.4** No. and Description of safety valves to each boiler **two spring loaded.** Area of each valve **3.14** Pressure to which they are adjusted **165 lbs** Are they fitted with easing gear **yes** Smallest distance between boilers or uptakes and bunkers or woodwork **12"** Mean diameter of boilers **108"**

Length **8' 6 1/2"** Material of shell plates **Steel** Thickness **29/32"** Description of riveting: circum. seams **Lap 2 Knives long. seams Short 5 Knives**

Diameter of rivet holes in long. seams **1"** Pitch of rivets **5 1/2"** Lap of plates or width of butt straps **13 3/4"**

Per centages of strength of longitudinal joint _____ rivets **117** Working pressure of shell by rules **188 lbs** Size of manhole in shell **13" x 17"** plate **87.8**

Size of compensating ring **29/32 x 8 1/2"** No. and Description of Furnaces in each boiler **one ribbed** Material **Steel** Outside diameter **45 1/8"**

Length of plain part ^{top} tube **6"** Thickness of plates ^{bottom} **3 9/16"** Description of longitudinal joint **welded** No. of strengthening rings **ribs**

Working pressure of furnace by the rules **178 lbs** Combustion chamber plates: Material **Steel** Thickness: Sides **9/16** Back **9/16** Top **9/16** Bottom **9/16**

Pitch of stays to ditto: Sides **8" x 8"** Back **8" x 7 1/4"** Top **8" x 7 1/4"** If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **177 lbs**

Material of stays **Steel** Diameter at smallest part **1 1/4"** Area supported by each stay **64 sq. in.** Working pressure by rules **181 lbs** End plates in steam space: Material **Steel** Thickness **31/32** Pitch of stays **14 1/2"** How are stays secured **by nuts & washers.** Working pressure by rules **211 lbs** Material of stays **Steel**

Diameter at smallest part **4 3/4"** Area supported by each stay **210 sq. in.** Working pressure by rules **157 lbs** Material of Front plates at bottom **Steel**

Thickness **3/16"** Material of Lower back plate **Steel** Thickness **7/16"** Greatest pitch of stays **8"** Working pressure of plate by rules **237 lbs**

Diameter of tubes **3 1/4"** Pitch of tubes **4 5/16"** Material of tube plates **Steel** Thickness: Front **13/16"** Back **3/4"** Mean pitch of stays **9.7**

Pitch across wide water spaces **14 1/4"** Working pressures by rules **215 lbs** Girders to Chamber tops: Material **Iron** Depth and thickness of girder at centre **6" x 2 x 5/8"** Length as per rule **22 1/2"** Distance apart **7 1/4"** Number and pitch of Stays in each **two 8"**

Working pressure by rules **170 lbs** 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 _____

13536 G/S

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 _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ 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 _____ Thickness 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:—

The foregoing is a correct description,
W. H. G. Manufacturer. S.

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

The Surveys are requested not to write on or below the space for Committee's Minute.

Certificate (if required) to be sent to

The amount of Entry Fee.	£	:	:	When applied for,
Special	£	:	:18.....
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:18.....

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

Committee's Minute

FRIDAY 22 MAR 1895

Assigned



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