

REPORT ON MACHINERY.

Port of *London*Received at London Office **TUES. 5 MAY 1892**No. in Survey held at
Reg. Book.Date, first Survey *Nov. 23rd 91*Last Survey *April 23rd 1892*

280 on the

Steamer "Rio Tejo"(Number of Visits *8*)Tons { Gross *740*
Net *560*
When built *1865*Master Built at *Newcastle* By whom built *Benbridge*Engines made at *London* By whom made *J. Stewart* when made *1872*Boilers made at *do.* By whom made *do.* when made *1883*Registered Horse Power *80* Owners *Compagnia Italis* Port belonging to *Oporto*

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 fitted Diameter of Crank shaft journals Diameter of Crank pin Size of Crank webs

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)

Total Heating Surface of Boilers

No. and Description of Boilers *Two Cylindrical & multitubular* Working Pressure *85th per sq* Tested by hydraulic pressure to *170th*Date of test *12-2-92* Can each boiler be worked separately *Ys* Area of fire grate in each boiler *30 sq* No. and Description of safety valves toeach boiler *Double spring* Area of each valve *9.60* Pressure to which they are adjusted *85th per sq* Are they fittedwith easing gear *Ys* Smallest distance between boilers or uptakes and bunkers or woodwork *12 inches* Mean diameter of boilers *9'0"*Length *9'6"* Material of shell plates *Steel* Thickness *9/16* Description of riveting: circum. seams *Single rivet* long. seams *Double lap*Diameter of rivet holes in long. seams *15/16* Pitch of rivets *3 15/16* Lap of plates or width of butt straps *6 1/2"*Percentage of strength of longitudinal joint rivets *80th* Working pressure of shell by rules *85th* Size of manhole in shell *14" x 11"*Size of compensating ring *Hi-heils* No. and Description of Furnaces in each boiler *Two* Material *Iron* outside diameter *35 7/8"*Length of plain part top *6'3"* bottom *6'3"* Thickness of plates crown *7/16* bottom *7/16* Description of longitudinal joint *double butt* No. of strengthening rings *✓*Working pressure of furnace by the rules *97th* Combustion chamber plates: Material *Iron* Thickness: Sides *7/16* Back *7/16* Top *1/2* Bottom *7/16*Pitch of stays to ditto: Sides *7 7/8* Back *8 x 7 7/8* or *8 x 8 1/4* stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *85th*Material of stays *Steel* Diameter at smallest part *15/16* Area supported by each stay *630* Working pressure by rules *85th* End plates in steam space:Material *Steel* Thickness *9/16* Pitch of stays *14 x 14* How are stays secured *nuts & washers* Working pressure by rules *85th* Material of stays *Steel*Diameter at smallest part *19/16* Area supported by each stay *1960* Working pressure by rules *91* Material of Front plates at bottom *Steel*Thickness *1/2* Material of Lower back plate *Steel* Thickness *1/2* Greatest pitch of stays *flush* Working pressure of plate by rules *85th*Diameter of tubes *3* Pitch of tubes *4'4" x 4'4"* Material of tube plates *do* Thickness: Front *9/16* Back *5/8* Mean pitch of stays *10 1/2"*Pitch across wide water spaces *10 1/2* Working pressures by rules *plate doubled* Headers to Chamber tops: Material *Steel* Depth andthickness of girder at centre *6 1/2 x 9/16* Length as per rule *25 3/4* Distance apart *8 1/2* Number and pitch of Stays in each *2 — 8"*Working pressure by rules *100th* Superheater or Steam chest; how connected to boiler *linked* Can the superheater be shut off and the boiler workedseparately *✓* Diameter *4'0"* Length *5'0"* Thickness of shell plates *3/8* Material *Steel* Description of longitudinal joint *lap* Diam. of rivetholes *13/16* Pitch of rivets *2 9/16* Working pressure of shell by rules *140* Diameter of flue *✓* Material of flue plates *✓* Thickness *2019*

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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LON696-0153

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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
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 Plates 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,

Manufacturer.

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

These boilers are of good quality, steel, and workman and have been built under special survey.

The vessel is eligible in my opinion to have + N.B. 4-92 recorded in the register book—

Certificate (if required) to be sent to

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	4	10	13/5/92
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	35/18/92

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

Committee's Minute

TUES. 17 MAY 1892

TUES. 23 AUG 1892

Assigned



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