

REPORT ON MACHINERY.

Port of Bristol

Received at London Office TI.URS: 22 DEC 1892

No. in Survey held at Gloucester & Bristol Date, first Survey 28th May Last Survey 12th Dec 1892

Book. Screw Log No 59 (Number of Visits 15)

on the Screw Log No 59 Tons Gross 574.48
Net 3.62
When built 1892

Master J. Nurse Built at Gloucester By whom built Summers & Scott when made 1892

Engines made at Gloucester By whom made Summers & Scott when made 1892

Motors made at Bristol By whom made Bewell & Co. Lim^d when made 1892

Registered Horse Power 50 Owners James Constant Port belonging to London

Net Horse Power as per Section 28 43

ENGINES, &c.— Description of Engines Inverted compound No. of Cylinders 2

Diameter of Cylinders 14" & 28" Length of Stroke 22" Revolutions per minute 140 Diameter of Screw shaft as per rule 5.4"
as fitted 5.5"

Diameter of Tunnel shaft as per rule 5.13" Diameter of Crank shaft journals 5 1/2" Diameter of Crank pin 5 1/2" Size of Crank webs 7 x 3 1/2"
as fitted 5.25"

Diameter of screw 7.6" Pitch of screw 10.9" No. of blades 3 State whether moveable no Total surface 19 1/2 sq ft

No. of Feed pumps one Diameter of ditto 2 3/8" Stroke 11" Can one be overhauled while the other is at work ✓

No. of Bilge pumps one Diameter of ditto 2 3/8" Stroke 11" Can one be overhauled while the other is at work ✓

No. of Donkey Engines one Sizes of Pumps 2 3/4 dia x 5 1/2 dia and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Two each 2' dia In Holds, &c. One 2' dia in fore
and after compartment

No. of bilge injection one sizes 2 dia Connected to condenser, or to circulating pump yes Is a separate donkey suction fitted in Engine room & size yes

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

How are they protected 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 no tunnel

Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 7352 sq ft

No. and Description of Boilers one cylindrical Multitubular Working Pressure 100 Tested by hydraulic pressure to 200 lbs

Date of test 24.10.92 Can each boiler be worked separately ✓ Area of fire grate in each boiler 20 sq ft No. and Description of safety valves to

each boiler two Spring Area of each valve 7.07 sq ft Pressure to which they are adjusted 100 lbs Are they fitted

with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean diameter of boilers 10' 0"

Length 9' 0" Material of shell plates steel Thickness 2 1/32" Description of riveting: circum. seams double lap, long. seams treble lap,

Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 4 1/2" Lap of plates or width of butt straps 7 3/8"

Percentages of strength of longitudinal joint 76.8 Working pressure of shell by rules 100 Size of manhole in shell 16 x 12"

Size of compensating ring 6' x 57" No. and Description of Furnaces in each boiler 2, plain Material steel Outside diameter 3' 1 1/16"

Length of plain part top 6.6 Thickness of plates crown 17/32 Description of longitudinal joint double butt strap No. of strengthening rings 1 ring
bottom 6.6

Working pressure of furnace by the rules 108 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 1/2" Back 10" Top 10" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 109.35

Material of stays steel Diameter at smallest part 1.298 Area supported by each stay 100 Working pressure by rules 103 End plates in steam space:

Material Steel Thickness 1" Pitch of stays 21 x 14 1/4" How are stays secured double nuts Working pressure by rules 144 Material of stays steel

Diameter at smallest part 3.73 Area supported by each stay 309.75 Working pressure by rules 108 Material of Front plates at bottom steel

Thickness 1/16" Material of Lower back plate steel Thickness 1/16" Greatest pitch of stays 10" Working pressure of plate by rules 163

Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" Material of tube plates steel Thickness: Front 11/16" Back 11/16" Mean pitch of stays 9 1/2"

Pitch across wide water spaces 13" Working pressures by rules 114.5 Girders to Chamber tops: Material steel Depth and

Thickness of girder at centre 5 1/4 x 3/4 (2) Length as per rule 24 Distance apart 10 Number and pitch of Stays in each 2 - 8"

Working pressure by rules 100 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

DONKEY BOILER— Description *None*

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 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 _____ Rivets _____ Plates _____
 Lap of plating _____ Per centage of strength of joint _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays _____ 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:— *Two Connecting Rod, top end bolts & nuts, two ditto bottom end bolts & nuts, two main bearing bolts, one set of coupling bolts, one set feed and bilge pump valves, a quantity of assorted bolts & nuts & pieces of iron*

The foregoing is a correct description,

Manufacturer.

Pummers & Scott

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

The Engines and Boilers of this vessel have been constructed under Special Survey. The material and workmanship is good and satisfactory.

The Machinery of this Steamer is now in good order and safe working condition and in our opinion eligible to be notified in the Register Book.

L.M.C. 12,92

It is submitted that this vessel is eligible for THE RECORD

Certificate (if required) to be sent to

Bristol

The amount of Entry Fee. . . £

Special £

Donkey Boiler Fee £

Travelling Expenses (if any) £

When applied for,

When received,

16/12/92
WRITTEN

4/1/93

7/1/93

Wm Coumber & J. Ritchie

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

Committee's Minute

TUES. 27 DEC 1892

Assigned

+ L.M.C. 12,92



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