

REPORT ON MACHINERY.

Continuation of Report No. 5784.

FRIDAY 10 AUG 1894.

Port of Bristol.

Received at London Office 13

No. in Survey held at Bristol Date, first Survey 2nd May Last Survey 16th July 1894
 Reg. Book. 622 on the J. S. Brigleton (Number of Visits 52)
 Master Read Built at Glasgow By whom built J. Elder & Co. Tons { Gross 574 Net 229 When built 1878.2
 Engines made at Glasgow By whom made J. Elder & Co. when made 1878.
 Boilers made at London By whom made Lou. Brightwell & Co. when made 1891.
 Registered Horse Power 200 Owners Petley, Brereton & Co. Ltd. Port belonging to Swansea
 Nom. Horse Power as per Section 28

ENGINES, &c.— Description of Engines Original Engines fitted in vessel No. of Cylinders _____
 Diameter of Cylinders _____ Length of Stroke _____ Revolutions per minute _____ Diameter of Screw shaft as per rule _____
 Diameter of Tunnel shaft as per rule _____ 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 (0)) Total Heating Surface of Boilers 1135 sq feet
 No. and Description of Boilers Four Multi-tubular Working Pressure 85 lbs Tested by hydraulic pressure to 128 lbs
 Date of test 26/6/94 Can each boiler be worked separately yes Area of fire grate in each boiler 48.75 sq ft No. and Description of safety valves to each boiler Two Spring Steam's Area of each valve 12.57 Pressure to which they are adjusted 85 lbs Are they fitted with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork about 12" Mean diameter of boilers 11'-10"
 Length 8'-0" Material of shell plates Steel Thickness 3/4" Description of riveting: circum. seams Doubled long. seams Butt straps
 Diameter of rivet holes in long. seams 2 1/8" Pitch of rivets 2 1/2" Lap of plates or width of butt straps 1 1/2"
 Per centages of strength of longitudinal joint rivets 78.2 plate 77.7 Working pressure of shell by rules 109 lbs Size of manhole in shell End 16 x 12
 Size of compensating ring 4 x 578 No. and Description of Furnaces in each boiler 2 Furnaces Material S Outside diameter 9'-11"
 Length of plain part top 6 bottom 6 Thickness of plates crown 7/16 bottom 7/16 Description of longitudinal joint _____ No. of strengthening rings _____
 Working pressure of furnace by the rules 106 lbs Combustion chamber plates: Material S Thickness: Sides 7/16 Back 7/16 Top 7/16 Bottom 7/16
 Pitch of stays to ditto: Sides 9 x 8 Back 8 x 8 Top 8 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 75 lbs
 Material of stays S Diameter at smallest part 1 1/8" Area supported by each stay 72 1/2 sq in Working pressure by rules 98 lbs End plates in steam space: _____
 Material S Thickness 3/4" Pitch of stays 15 x 15 How are stays secured 9/16 Nuts Working pressure by rules 112 lbs Material of stays Iron
 Diameter at smallest part 2 1/4" Area supported by each stay 225 sq in Working pressure by rules 131 lbs Material of Front plates at bottom S
 Thickness 9/16 Material of Lower back plate S Thickness 1/2" Greatest pitch of stays 11 x 9 Working pressure of plate by rules 95 lbs
 Diameter of tubes 2 3/4" Pitch of tubes 3 1/4 x 3 3/8 Material of tube plates S Thickness: Front 5/8 Back 5/8 Mean pitch of stays 8 1/4"
 Pitch across wide water spaces 14" Working pressures by rules 77 lbs Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 5 x 1 Length as per rule 22 1/2 Distance apart 7 1/2 Number and pitch of Stays in each 2 x 8 P.
 Working pressure by rules 91.8 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 _____

6510-28509

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 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. _____

Plates _____ Thickness of shell crown plates _____

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.)

Please attach to Bristol Report Number 5784 a P.S. "Brislington" the additional particulars herein given are forwarded for the information of the Committee.

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

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

Committee's Minute
 Assigned

TUE 14 AUG 1894

TUES. 4 SEP 1894



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