

REPORT ON MACHINERY.

Received at London Office 10. 4. 1884

No. _____
 No. in Survey held at London Date, first Survey Sep. 12th 1883 Last Survey Apr. 7th 1884
 Reg. Book. _____ (Number of Visits _____)
 on the S. S. "Quorra" Tons _____
 Master _____ Built at Millwall By whom built Forrest & Son When built _____
 Engines made at Millwall By whom made Forrest & Son when made 1884
 Boilers made at Do. By whom made S. Hodge & Son when made _____
 Registered Horse Power 54 Owners _____ Port belonging to _____

ENGINES, &c.—

Description of Engines Tandem Steam
 Diameter of Cylinders 12" & 24" Length of Stroke 16" No. of Rev. per minute _____ Point of Cut off, High Pressure _____ Low Pressure _____
 Diameter of Screw shaft 4³/₄" Diam. of Tunnel shaft 4¹/₂" Diam. of Crank shaft journals 4³/₄" Diam. of Crank pin 4³/₄" size of Crank webs 5³/₄" x 3¹/₂"
 Diameter of screw 4¹/₂" Pitch of screw man. 7¹/₂" No. of blades 3 state whether moveable no total surface _____
 No. of Feed pumps 1 diameter of ditto 3" Stroke 8" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 1 diameter of ditto 3" Stroke 8" Can one be overhauled while the other is at work yes
 Where do they pump from Engine Room
 No. of Donkey Engines One Size of Pumps 3¹/₂" Where do they pump from Eng. Rm. St. & Sea
 Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible yes
 No. of bilge injections 2 and sizes 3" Are they connected to condenser, or to circulating pump circ. pump
 How are the pumps worked Sever from cross head
 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 Donkey suction How are they protected Wooden Casing
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock _____
 Is the screw shaft tunnel watertight _____ and fitted with a sluice door _____ worked from _____

BOILERS, &c.—

Number of Boilers One Description Multitubular Whether Steel or Iron Steel
 Working Pressure 90 lbs. Tested by hydraulic pressure to 180 lbs. Date of test Nov. 11th 1883
 Description of superheating apparatus or steam chest ✓
 Can each boiler be worked separately ✓ Can the superheater be shut off and the boiler worked separately ✓
 No. of square feet of fire grate surface in each boiler 40 sq. ft. Description of safety valves Direct spring No. to each boiler Two
 Area of each valve _____ Are they fitted with easing gear yes No. of safety valves to superheater ✓ area of each valve ✓
 Are they fitted with easing gear ✓ Smallest distance between boilers and bunkers or woodwork 6" Diameter of boilers 10. 11¹/₂"
 Length of boilers 9 ft. description of riveting of shell long. seams double butt circum. seams single lap Thickness of shell plates 11¹/₁₆"
 Diameter of rivet holes 15¹/₁₆" whether punched or drilled drilled pitch of rivets 3" Lap of plating 2³/₄"
 Per centage of strength of longitudinal joint 69% working pressure of shell by rules 90 lbs. size of manholes in shell 16" x 12"
 Size of compensating rings 5" x 7¹/₈" No. of Furnaces in each boiler 2
 Outside diameter 3. 4⁵/₈" length, top 6. 3" bottom 8 ft. thickness of plates 1¹/₂" description of joint double butt if rings are fitted ✓
 Greatest length between rings ✓ working pressure of furnace by the rules 90 lbs. combustion chamber plating, thickness, sides 7¹/₁₆" back 7¹/₁₆" top 7¹/₁₆"
 Pitch of stays to ditto, sides 7¹/₂" back 7⁵/₈" top _____ If stays are fitted with nuts or riveted heads nuts only working pressure of plating by rules 90¹/₂ lbs. Diameter of stays at smallest part 1¹/₈" working pressure of ditto by rules 4900 end plates in steam space, thickness 11¹/₁₆"
 Pitch of stays to ditto 13³/₄" x 13¹/₂" how stays are secured double nut working pressure by rules 123 lbs. diameter of stays at smallest part 1³/₄" working pressure by rules 57.33 Front plates at bottom, thickness 11¹/₁₆" Back plates, thickness 11¹/₁₆"
 Greatest pitch of stays 12¹/₂" working pressure by rules 115 lbs. Diameter of tubes 3¹/₂" pitch of tubes 4¹/₂" thickness of tube plates, front 11¹/₁₆" back 11¹/₁₆" how stayed St. tubes pitch of stays 13¹/₂" width of water spaces 11¹/₂"
 Diameter of Superheater or Steam chest ✓ length ✓ thickness of plates ✓ description of longitudinal joint ✓ diam. of rivet holes ✓
 Pitch of rivets ✓ working pressure of shell by rules ✓ diameter of flue ✓ thickness of plates ✓ If stiffened with rings ✓
 Distance between rings ✓ working pressure by rules ✓ end plates of superheater, or steam chest; thickness ✓ how stayed ✓
 Superheater or steam chest; how connected to boiler ✓

LONG 72-0343

No

43676. Jan.

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 _____ if fitted with easing gear _____ if steam from main boilers can
 enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____
 Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____
 per centage of strength of joint _____ thickness of crown plates _____ stayed by _____
 Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of 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 plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:— 2 Main Bearing Bolts. 2 Top end Connecting
 rod bolts. 2 Bottom end do. 4 Coupling Bolt 1 Set Feed + 1 set bridge
 pump valves.

The foregoing is a correct description,
 Forrest & Son. Manufacturer.

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

Material & Workmanship good & eligible in my opinion
 the marked with + L.M.C. 4.84.

The amount of Entry Fee .. £ 1 : - : - received by me,

Special .. £ 8 : 2 :

Donkey Boiler Fee .. £ :

Certificate (if required) .. £ :

To be sent as per margin.

(Travelling Expenses, if any, £ 14/6)

Committee's Minute

THURSDAY 13 APRIL 1884

Submitted that this vessel
 is eligible to have + L.M.C.
 M.C. 4.84
 10.4.84
 Geo. C. Milner
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.