

44610

112

REPORT ON MACHINERY

FRIDAY 30 JAN 1885

No. 504 in Survey held at London Date, first Survey 15 June 84 Last Survey 20 Jan 1885
 Reg. Book. S. P. "Dunrobin Castle" (Number of Visits 5)
 Master Harrison Built at Glasgow When built 1875-11
 Engines made at Glasgow By whom made R Napier & Co when made 1875
 Boilers made at _____ By whom made _____ when made 1875
 Registered Horse Power 300 Owners J Currie & Co Port belonging to London

ENGINES, &c.—

Description of Engines _____ 100 A 1 12 85
L.M.O. 12 83
 Diameter of Cylinders _____ Length of Stroke _____ No. of Rev. per minute _____ Point of Cut off, High Pressure _____ Low Pressure _____
 Diameter of Screw shaft _____ Diameter of Tunnel shaft _____ 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 _____
 Where do they pump from _____
 No. of Donkey Engines _____ Size of Pumps _____ Where do they pump from _____
 Are all the bilge suction pipes fitted with roses _____ Are the roses always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
 No. of bilge injections _____ and sizes _____ Are they connected to condenser, or to circulating pump _____
 How are the pumps worked _____
 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 accessible at all times _____
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection 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 _____ and fitted with a sluice door _____ worked from _____

BOILERS, &c.—

Donkey Boiler
 Number of Boilers one Description return Multitubular
 Working Pressure 60 lb Tested by hydraulic pressure to 120 lb Date of test 21st Aug 1884
 Description of superheating apparatus or steam chest none
 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 25 Description of safety valves spring
 No. to each boiler two area of each valve 7.07 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 9" to iron casing
 Diameter of boilers 7' 0" Length of boilers 7' 9" description of riveting of shell long. seams double R lap circum. seams Double R lap
 Thickness of shell plates 7/16 diameter of rivet holes 3/4" whether punched or drilled drilled pitch of rivets 3 1/4
 Lap of plating 5 5/8 per centage of strength of longitudinal joint 77 working pressure of shell by rules 61
 Size of manholes in shell 16" x 12" size of compensating rings angle iron 3 1/2 x 3 1/2 x 1/2
 No. of Furnaces in each boiler two outside diameter 28" length, top 5' 9" bottom 7' 3"
 Thickness of plates 3/8 description of joint double butt Stays part-welded rings are fitted no greatest length between rings _____
 Working pressure of furnace by the rules 64
 Combustion chamber plating, thickness, sides 7/16 back 7/16 top 7/16
 Pitch of stays to ditto, sides 9" back 9" top 9"
 If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 67
 Diameter of stays at smallest part 1 1/8 working pressure of ditto by rules 74
 End plates in steam space, thickness 9/16 pitch of stays to ditto 13" how stays are secured Double Nuts
 Working pressure by rules 71 diameter of stays at smallest part 1 3/4" working pressure by rules 84
 Front plates at bottom, thickness 9/16 Back plates, thickness 9/16 greatest pitch of stays 10" working pressure by rules 75

Form No. 8-21/0/82 1000.

Lloyd's Register
 Foundation
 LON674-0174

144610 Lon

Diameter of tubes 3" pitch of tubes 4 7/8" thickness of tube plates, front 9/16 back 9/16
 How stayed 12 Stay tubes pitch of stays 12 3/4 width of water spaces 11"
 Diameter of Superheater or Steam chest _____ length _____
 Thickness of plates _____ description of longitudinal joint _____ diameter 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 The boiler is fixed below the upper deck

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 casing 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 _____

The foregoing is a correct description,

 Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. The safety valves were set to blow off at 60 lbs per square inch. The boiler was found to be in a good working condition. It is submitted that this vessel is eligible to remain unclassified.)

*It is submitted that this vessel is eligible to remain unclassified
 as classed M 29/1/85*

The amount of Entry Fee .. £ : : received by me,
 Special 1/2/85 .. £ : :
 Certificate (if required) .. £ 2 : 2 : -12.12 1885
 (Travelling Expenses, if any, £ _____)

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

Committee's Minute _____
 TUESDAY 3 FEB 1885 18

