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REPORT ON MACHINERY

FRIDAY 20 JAN 1885

No.

(Received at London Office 18

No. in Survey held at

London

Date, first Survey 15 June 84 Last Survey 20 Jan 1885

Reg. Book.

(Number of Visits 5)

504 on the

S. S. "Dunrobin Castle"

Tons 1797

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

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.—

Number of Boilers one Description Donkey Boiler 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 Stiff 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 Butts

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

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Diameter of tubes 3" pitch of tubes 4 1/2" 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 as classed.

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

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

Special 1/2/85 .. £ : :
16/1/85

Certificate (if required) .. £ 2 : 2 : - 12.12 1885

To be sent as per margin.

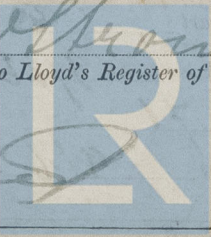
(Travelling Expenses, if any, £ _____)

Committee's Minute

TUESDAY 3 FEB 1885

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



Lloyd's Register
Foundation