

REPORT ON MACHINERY.

No. 2610 Port of Newcastle Received at London Office 13
 No. in Survey held at Newcastle Date, first Survey 22 Dec 1890 Last Survey 20 July 1891
 Reg. Book. on the S.S. Cape Cormier (Number of Visits 39) Tons 1660
 Master H. G. Burnup Built at Newcastle By whom built James I S B Co Ltd When built 1891
 Engines made at Newcastle By whom made Wigham Richardson & Co when made 1891
 Boilers made at " By whom made do do when made 1891
 Registered Horse Power 250 Owners H. Milburn & Co Port belonging to Newcastle

ENGINES, &c.—

Description of Engines Triple expansion on three cranks
 Diameter of Cylinders 23. 37. 62 Length of Stroke 42 No. of Rev. per minute 65 Point of Cut off, High Pressure 65 Low Pressure 60
 Diameter of Screw shaft 12 1/2 Diam. of Tunnel shaft 11 Diam. of Crank shaft journals 11 1/2 Diam. of Crank pin 12 size of Crank webs 7 1/2 x 18 1/2
 Diameter of screw 15.0 Pitch of screw 18.0 No. of blades 4 state whether moveable no total surface 68 sq
 No. of Feed pumps 2 diameter of ditto 3 Stroke 24 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work yes
 Where do they pump from aft. bilge holds well - 2nd from tanks, bilge holds well
 No. of Donkey Engines Two Size of Pumps 7 x 3 1/2 x 9 + 9 x 9 x 9 Where do they pump from Ballast from all bilges, 4 x 28
well tank separate bilge - fed from same from bottom
 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 one and sizes " Are they connected to condenser or to circulating pump yes
 How are the pumps worked by levers over condenser from after engine
 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 yes
 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 none How are they protected yes
 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 new vessel
 Is the screw shaft tunnel watertight yes and fitted with a sluice door yes worked from top platform

BOILERS, &c.—

Number of Boilers Two Description Cyl. Single ended Whether Steel or Iron Steel
 Working Pressure 160 Tested by hydraulic pressure to 320 Date of test May 5th 1891 (3571)
 Description of superheating apparatus or steam chest none
 Can each boiler be worked separately yes Can the superheater be shut off and the boiler worked separately yes
 No. of square feet of fire grate surface in each boiler 476 sq Description of safety valves spring No. to each boiler two
 Area of each valve 5.94 Are they fitted with easing gear yes No. of safety valves to superheater yes area of each valve yes
 Are they fitted with easing gear yes Smallest distance between boilers and bunkers or woodwork 2 feet Diameter of boilers 13.6
 Length of boilers 10.6 description of riveting of shell long. seams d + dr circum. seams d c Thickness of shell plates 1 1/2
 Diameter of rivet holes 1 1/16 whether punched or drilled d pitch of rivets 7 3/8 Lap of plating 14 3/8
 Per centage of strength of longitudinal joint 80.5 working pressure of shell by rules 158 size of manholes in shell 16 x 12
 Size of compensating rings flanged No. of Furnaces in each boiler four
 Outside diameter 33 length, top 6.2 bottom 6.2 thickness of plates 7/8 description of joint d + dr if rings are fitted yes
 Greatest length between rings 6.2 working pressure of furnace by the rules 166 combustion chamber plating, thickness, sides 9/16 back 9/16 top 9/8
 Pitch of stays to ditto, sides 7 3/8 back 7 1/4 top 7 3/4 If stays are fitted with nuts or riveted heads nut working pressure of plating by rules 200 Diameter of stays at smallest part 1 3/8 working pressure of ditto by rules 198 end plates in steam space, thickness 1
 Pitch of stays to ditto 14 1/2 how stays are secured d + dr working pressure by rules 160 diameter of stays at smallest part 2 1/4 working pressure by rules 160 Front plates at bottom, thickness 1 1/8 Back plates, thickness 3/4
 Greatest pitch of stays 13 3/4 working pressure by rules 160 Diameter of tubes 3 1/2 pitch of tubes 4 1/2 thickness of tube plates, front 3/4 back 3/4 how stayed tubes pitch of stays as plan width of water spaces 5 1/2
 Diameter of Superheater or Steam chest yes length yes thickness of plates yes description of longitudinal joint yes diam. of rivet holes yes
 Pitch of rivets yes working pressure of shell by rules yes diameter of flue yes thickness of plates yes If stiffened with rings yes
 Distance between rings yes working pressure by rules yes end plates of superheater, or steam chest; thickness yes how stayed yes
 Superheater or steam chest; how connected to boiler yes

Description of furnaces

2100-1287M

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DONKEY BOILER— Description *Cyl. Single ended*
 Made at *Stockholm* by whom made *Riley Bros* when made *1890* where fixed *Stockholm*
 Working pressure *160* tested by hydraulic pressure to *320* No. of Certificate *260* fire grate area *21 ft* description of safety
 valves *spring* No. of safety valves *two* area of each *4.9* if fitted with easing gear *15* if steam from main boilers can
 enter the donkey boiler *no* diameter of donkey boiler *8.0* length *8.6* description of riveting *d b s b s*
 Thickness of shell plates *23/32* diameter of rivet holes *15/16* whether punched or drilled *d* pitch of rivets *7 1/4* lap of plating *13 1/2*
 per centage of strength of joint *87* thickness of *main* plates *25/32* stayed by *17/8 stays 12 x 12 1/4*
 Diameter of furnace, top *2.4* bottom *2.4* length of furnace *7.5* thickness of plates *3/16* description of joint *sl*
 Thickness of furnace crown plates *1/2* stayed by *1 1/8 stays 6 7/8 x 6 3/4* working pressure of shell by rules *162*
 Working pressure of furnace by rules *160* diameter of uptake *1* thickness of plates *3/40* thickness of water tubes *1/4*

SPARE GEAR. State the articles supplied:—*Two each, top and bottom end, and main*
bearing bolts nuts, 1 set coupling bolts, One set each
air circulating, feed, bilge pump valves, bolt, nut,
Iron various sizes, piston packing rings.

The foregoing is a correct description,

Wm Richardson W. Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel*)
has been constructed under special survey the materials and
workmanship are sound and good and eligible in our opinion
be classed + L.M.C. 7-91 in the Locusts Register Book.

Heating surface = 3678
N. H. P. = 247

It is submitted that this vessel is
eligible to have + L.M.C. 7-91 recorded

W.A.
24-7-91

The amount of Entry Fee £ 2: - - - received by me,

Special £ 32: 7: -

Donkey Boiler Fee £ -: -

Certificate (if required) £ -: -

To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute

TUES. 28 JUL 1891

+ L.M.C. 7/91

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

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 Foundation