

REPORT ON MACHINERY.

RECEIVED 6th APL. 82.

(Received in London Office)

18

No. 663

No. in Survey held at Reg. Book.

Glasgow

Date, first Survey 11/4/81

Last Survey 5/4/82 18

1380

on the

S.S. "Pinkgate"

Tons 915

Master

M. Tennie

Built at

Glasgow

When built

1882

Engines made at

Glasgow

By whom made

D. N. Henderson & Co. 1882

Boilers made at

Glasgow

By whom made

D. N. Henderson & Co.

Registered Horse Power

163

Owners

A. Thompson & Son

Port belonging to

Adelaide

ENGINES, &c.—

Description of Engines

Compound Inverted Direct Acting

Diameter of Cylinders 30 1/2 x 63" Length of Stroke 4" No. of Rev. per minute 75 Point of cut off, High Pressure 6 Low Pressure 6

Diameter of Screw shaft 1 1/4" Diameter of Tunnel shaft 1 1/2" Diameter of Crank shaft journals 1 1/4" Diameter of Crank pin 1 1/4" size of Crank webs 14 1/2 x 8 1/2"

Diameter of screw 16" Pitch of screw 19"0" No. of blades 4 state whether movable no. total surface 84 sq. ft.

No. of Feed pumps two diameter of ditto 4" Stroke 22 1/2" Can one be overhauled while the other is at work yes

No. of Bilge pumps two diameter of ditto 4" Stroke 22 1/2" Can one be overhauled while the other is at work yes

Where do they pump from from all compartments.

No. of Donkey Engines One 7 Pulometa Size of Pumps 10 hp. 4" P. Pump Where do they pump from. Pulometa for ballast

Can No. Donkey Engine from Sea Bilge & all Compartments.

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 two and sizes 3 1/2 x 7 3/4" Are they connected to condenser, or to circulating pump Circulating pump & Condenser

How are the pumps worked by levers

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 spot and brass closing plate yes

What pipes are carried through the bunkers For Main hold suction. How are they protected by wood 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 before launching

Is the screw shaft tunnel watertight yes and fitted with a sluice door yes worked from upper platform

BOILERS, &c.—

Number of Boilers two Description Cylindrical double ended (Slit Internals)

Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 31 December 1881

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 "

No. of square feet of fire grate surface in each boiler 41.5 Description of safety valves Direct Spring

No. to each boiler two area of each valve 14 x 19 Are they fitted with easing gear yes.

No. of safety valves to superheater " area of each valve " are they fitted with easing gear yes.

Smallest distance between boilers and bunkers or woodwork 6"

Diameter of boilers 11'3" Length of boilers 16'0" Description of riveting of shell long. seams lap double rivet circum. seam lap double rivet

Thickness of shell plates 1 1/8" diameter of rivet holes 1 3/8 x 1/32 whether punched or drilled punched pitch of rivets 5 3/4"

Lap of plating 9 3/8" per centage of strength of longitudinal joint 75 working pressure of shell by rules 100 lbs.

Size of manholes in shell 14 x 11" size of compensating rings 20 x 14 x 18"

No. of Furnaces in each boiler four outside diameter 40" app. length, top 6'0" bottom 5'0"

Thickness of plates 7/16 x 1/4" description of joint Welded ends if rings are fitted yes greatest length between rings 3'3"

Working pressure of furnace by the rules 90 lbs

Combustion chamber plating, thickness, sides 7/16" back 7/16" top 7/16"

Pitch of stays to ditto sides 7 3/4 x 7 3/4 back 7 3/4 x 7 3/4 top 7 3/4 x 7 3/4

If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 90 lbs

Diameter of stays at smallest part 1.28 under thread working pressure of ditto by rules 128

End plates in steam space, thickness 3/4 x 1/2" pitch of stays to ditto 15 x 13 3/4" how stays are secured nuts & washers

Working pressure by rules 97 lbs diameter of stays at smallest part 2 1/4" working pressure by rules 120 lbs

Front plates at bottom, thickness 3/8" Back plates, thickness 1/2" greatest pitch of stays working pressure by rules

GLS146-0325

5663 gls

Diameter of tubes 4" pitch of tubes 5 3/8" thickness of tube plates, front 7/16" back 7/16"

How stayed Stay tubes pitch of stays 1" width of water spaces 1 3/8"

Diameter of Superheater or Steam chest length 1" diameter of rivet holes 1" pitch of rivets 1"

Thickness of plates 1" description of longitudinal joint 1" diameter of rivet holes 1" pitch of rivets 1"

Working pressure of shell by rules 1" Diameter of flue 1" thickness of plates 1"

If stiffened with rings 1" distance between rings 1" Working pressure by rules 1"

End plates of superheater, or steam chest; thickness 1" How stayed 1"

Superheater or steam chest; how connected to boiler 1"

DONKEY BOILER— Description *Upwright with two water tubes.*

Made at *Glasgow* By whom made *D. M. Henderson & Co.* When made *1882*

Where fixed *Upper Clyde* working pressure *5 5/8* Tested by hydraulic pressure to *110 lbs* No. of Certificate *134*

Fire grate area *14 6 sq ft* Description of safety valves *Direct Spring* No. of safety valves *two* area of each *4 sq in*

If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no*

Diameter of donkey boiler *6' 0"* length *13' 0"* description of riveting *lap double rivet*

thickness of shell plates *7/16"* diameter of rivet holes *3/4"* whether punched or drilled *punched*

pitch of rivets *3"* lap plating *7* per centage of strength of joint *70*

thickness of crown plates *9/8"* stayed by *6 rods 1 3/4" diam*

Diameter of furnace, top *4' 9"* bottom *5' 3"* length of furnace *6' 0"*

thickness of plates *7/16"* description of joint *lap single rivet*

thickness of furnace crown plates *1 1/2"* stayed by *9 rods 1 3/4" diam*

Working pressure of shell by rules *6 6/8* working pressure of furnace by rules *5 8/8*

diameter of uptake *15 1/2"* thickness of plates *7/16"* thickness of water tubes *3/8"*

The foregoing is a correct description,
David Henderson & Co. Manufacturers.

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

*The above Engines & Boilers are of good workmanship.
 & are now in safe working condition. And are in my
 opinion eligible to be noted in the Register Book.* **LLOYD'S REG.** *582*

*It is not written that this
 vessel is eligible to have
 the notation of Lloyd's Reg.
 recorded*

The amount of Entry Fee £ 3 : 0 : 0 received by me,

Special £ 24 : 9 : 0

Certificate (if required) £ 6 : 0 : 0 *4 April 1882*

To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute

Thursday April 26 1882

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