

# REPORT ON MACHINERY.

No. 5559

No. in Survey held at Reg. Book.

on the

Date, first Survey

Received at London Office

MONDAY 28 SEPT 1885

Master

Engines made at

Boilers made at

Registered Horse Power

Built at

By whom built

By whom made

By whom made

Owners

Last Survey

(Number of Vessels)

Tons

When built

when made

when made

Port belonging to

## ENGINES, &c.—

Description of Engines

Diameter of Cylinders

Diameter of Screw shaft

Diameter of screw

No. of Feed pumps

No. of Bilge pumps

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

No. of bilge injections

How are the pumps worked

Are all connections with the sea direct on the skin of the ship

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a discharge valve always accessible on the plating of the vessel

What pipes are carried through the bunkers

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

BOILERS, &c.—

Number of Boilers

Working Pressure

Description of superheating apparatus or steam chest

Can each boiler be worked separately

No. of square feet of fire grate surface in each boiler

Area of each valve

Are they fitted with easing gear

Length of boilers

Diameter of rivet holes

Per centage of strength of longitudinal joint

Size of compensating

Outside diameter

Greatest length between rings

Pitch of stays to ditto, sides

rules

Pitch of stays to ditto

smallest part

Greatest pitch of stays

plates, front

diameter of Superheater or Steam chest

pitch of rivets

distance between rings

Description

Tested by hydraulic pressure to

Description of safety valves

Are they fitted with easing gear

description of riveting of shell long. seams

whether punched or drilled

working pressure of shell by rules

Size of compensating

length, top

bottom

thickness of plates

working pressure of furnace by the rules

if stays are fitted with nuts or riveted heads

working pressure of ditto by rules

how stays are secured

working pressure by rules

working pressure by rules

back

length

thickness of plates

description of longitudinal joint

diameter of flue

thickness of plates

end plates of superheater, or steam chest; thickness

how stayed

Whether Steel or Iron

Date of test

Can the superheater be shut off and the boiler worked separately

No. of safety valves to superheater

area of each valve

circum. seams

pitch of rivets

Lap of plating

size of manholes in shell

No. of Furnaces in each boiler

description of joint

combustion chamber plating, thickness, sides

back

top

working pressure of plating by

end plates in steam space, thickness

diameter of stays at

Back plates, thickness

pitch of tubes

thickness of tube

width of water spaces

diam. of rivet holes

If stiffened with rings

Superheater or steam chest; how connected to boiler

Last Survey

(Number of Vessels)

Tons

When built

when made

when made

Port belonging to

© 2021

Lloyd's Register Foundation



**DONKEY BOILER—** Description *Stacy's Patent - steel furnace, iron shell*  
 Made at *Glasgow* by whom made *Stacy & Co* when made *3/8/85* where fixed *Attn*  
 Working pressure *8 1/2 lbs* tested by hydraulic pressure to *160 lbs* No. of Certificate *1882* fire grate area *25.96*  
 valves *Spring* No. of safety valves *1* area of each *7.07* if fitted with easing gear *Yes* if steam for boilers can  
 enter the donkey boiler *No* diameter of donkey boiler *6.6* length *13.3* description of riveting *St lap, 1/4" steps*  
 Thickness of shell plates *3/8"* diameter of rivet holes *1 1/8"* whether punched or drilled *Yes* pitch of rivets *3 1/2"* lap of plating *4"*  
 per centage of strength of joint *70%* thickness of crown plates *3/8"* stayed by *6 stays and 2 staybolts*  
 Diameter of furnace, top *5.8"* bottom *6.0"* length of furnace *3.0"* thickness of plates *5/8"* description of joint *Angle lap*  
 Thickness of furnace crown plates *3/8"* stayed by *Iron tubes* working pressure of shell by rules *8 1/2 lbs*  
 Working pressure of furnace by rules *8 1/2 lbs* diameter of uptake *12"* thickness of plates *3/8"* thickness of water tubes *3/8"*  
*Donkey boiler furnished with iron furnace, iron shell, and iron tubes.*

**SPARE GEAR.** State the articles supplied:— *3 crank shafts, 1 propeller shaft, 2 struts and 2 struts  
 and connecting rod bolts nuts, 2 main bearing bolts, 1 set of coupling bolts,  
 2 sets of feed and edge pump valves 1 set of piston springs, 2 sets of air & water  
 pump valves, quantity of assorted bolts nuts & wire of various sizes &c.*  
*The foregoing is a correct description,*  
*J. Richardson & Sons. Manufacturer of Engines and Marine Boilers.*

**General Remarks** (State quality of workmanship, opinions as to class, &c.)  
*Material and workmanship good.*  
*The steel plates, out of which the main boiler are*  
*constructed, were manufactured by J. M. Macdonald Glasgow.*  
*The furnace are Stacy's Patent - corrugated.*  
*The crank shaft is made in three duplicate parts, was*  
*forged and finished by Mr. Richardson & Sons and is to all appearance*  
*sound and efficient.*  
*The machinery and boiler of this vessel are in*  
*good order and safe working condition and signify in my*  
*opinion, for the registration* **L.M.C. 9, 85.** *in the Register*  
*Book*

The amount of Entry Fee .. £ 2: .. : received by me,  
 Special .. .. £ 2: .. :  
 Donkey Boiler Fee .. .. £ .. : .. :  
 Certificate (if required) .. £ .. : .. : 23.9.1885  
 To be sent as per margin.  
 (Travelling Expenses, if any, £ 1. 2. 6)

*J. M. C.*  
*James Farley*

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

Committee's Minute  
 TUESDAY 29 SEPT 1885  
*J. M. C.*