

REPORT ON MACHINERY.

3237
No. in Survey Book

held at

on the

built at

By whom made

Registered Horse Power

Engines, &c.

Diameter of Cylinders

Diameter of screw

No. of Feed pumps

No. of Bilge pumps

Where do they pump from

No. of Donkey Engines

Are all the bilge suction pipes fitted with roses

No. of bilge injections

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

Are the pipes 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

Were the stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight

Engines, &c.

No. of Boilers

Working Pressure

Description of superheating apparatus or steam chest

Can each boiler be worked separately

Area of square feet of fire grate surface in each boiler

Description of each valve

Are they fitted with easing gear

Smallest distance between boilers and bunkers or woodwork

Thickness of shell plates

Diameter of rivet holes

Percentage of strength of longitudinal joint

Working pressure of shell by rules

Size of manholes in shell

Description of compensating rings

No. of furnaces in each boiler

Internal diameter

Length, top

Bottom

Thickness of plates

Description of joint

Are rings fitted

Working pressure of furnace by the rules

Combustion chamber plating, thickness, sides

Back

Top

Are stays fitted with nuts or riveted heads

Working pressure of plating by rules

Diameter of stays at smallest part

Working pressure of ditto by rules

End plates in steam space, thickness

How stays are secured

Working pressure by rules

Diameter of stays at smallest part

Front plates at bottom, thickness

Back plates, thickness

Working pressure by rules

Diameter of tubes

Pitch of tubes

Thickness of tube plates, front

Back

How stayed

Pitch of stays

Width of water spaces

Diameter of Superheater or Steam chest

Length

Thickness of plates

Description of longitudinal joint

Diameter of rivet holes

Working pressure of shell by rules

Diameter of flue

Thickness of plates

Are they stiffened with rings

Working pressure by rules

End plates of superheater, or steam chest; thickness

How stayed

Superheater or steam chest; how connected to boiler

Date, first Survey

22nd Decr 1885

Received at London Office

17/8/86

Last Survey

5th August 1886

(Number of Visits)

14

Tons

428.84

By whom built

When built

By whom made

When made

By whom made

When made

Port belonging to

Engines, &c.

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Diameter of rivet holes

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Diameter of flue

Thickness of plates

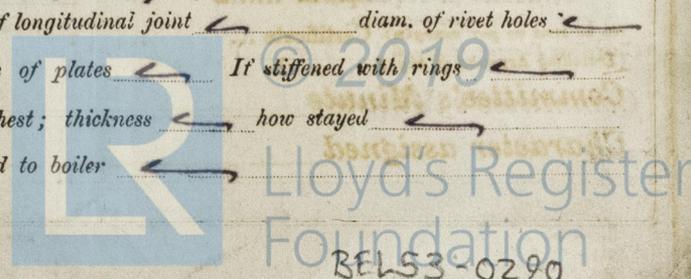
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Working pressure by rules

End plates of superheater, or steam chest; thickness

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DONKEY BOILER— Description *Round Vertical Cross tube*
 Made at *Glasgow* by whom made *Hutton & Corbett* when made *1886* where fixed *in St. Nicholas*
 Working pressure *80 lbs* tested by hydraulic pressure to *160 lbs* No. of Certificate *1428* fire grate area *12 ft²* description of safety
 valves *Direct Spring* No. of safety valves *One* area of each *4"* if fitted with easing gear *yes* if steam from main boilers can
 enter the donkey boiler *no* diameter of donkey boiler *5'0"* length *9'6"* description of riveting *Double & Single*
 Thickness of shell plates *3/16"* diameter of rivet holes *13/16"* whether punched or drilled *Drilled* pitch of rivets *3"* lap of plating *1/2"*
 per centage of strength of joint *70* thickness of crown plates *1/16"* stayed by *Uptake + 6 2" dia solid stays*
 Diameter of furnace, top *3'8"* bottom *4'5"* length of furnace *4'6"* thickness of plates *3/16"* description of joint *lap single*
 Thickness of furnace crown plates *3/16"* stayed by *As above* working pressure of shell by rules *87 lbs*
 Working pressure of furnace by rules *83 lbs* diameter of uptake *12"* thickness of plates *3/16"* thickness of water tubes *3/16" 9 1/2 dia*

SPARE GEAR. State the articles supplied: *Two Connecting rod bolts & nuts top & bottom*
Two main bearing bolts, One set Coupling bolts Three piston bolts & nuts,
Half set piston springs for each piston, One feed pump valve & one bilge pump
valve also donkey pump valve. Two spare propeller blades, Assorted bolts nuts
iron &c

The foregoing is a correct description,
H. Hutton & Corbett Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *These Engines & Boilers are*
of good workmanship & materials and are now in good order &
safe working condition & eligible in my opinion to be noted in
the Register Book. Lloyd's M.C. 8/86.

Showing of Boiler & other test Reports applicable Register Books as well as this one
attached for guidance

It is submitted that this
vessel is eligible to have the
notification + done 8.86
recorded.
A. J.
17/8/86

The amount of Entry Fee .. £ *1* : *v* : *v* received by me,
 Special .. £ *14* : *5* : *v*
 Donkey Boiler Fee .. £ *v* : *v* : *v*
 Certificate (if required) .. £ *v* : *v* : *v* *14/8/1886*
 (To be sent as per margin.)
 (Travelling Expenses, if any, £ *8/-*)

Committee's Minute **TUESDAY 17 AUGUST 1886**
+ J. M. S.

James Morrison
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
Clyde District