

REPORT ON MACHINERY.

No. 9043

9043

No. in Survey held at *Glasgow & Greenock* Date, first Survey *1st Sept 1885* Last Survey *24th Nov 1885*
 Reg. Book. *S S "Maule"* (Number of Visits *23*) Tons *1000*
 on the
 Master *Port Glasgow* Built at *Port Glasgow* By whom built *Messrs J. Reid & Co* When built *1885*
 Engines made at *Greenock* By whom made *Messrs Kincaid & Co* when made *1885*
 Boilers made at *Glasgow* By whom made *H. Wallace & Co* when made *1885*
 Registered Horse Power *1000* Owners *Port Glasgow* Port belonging to *Port Glasgow*

ENGINES, &c.—

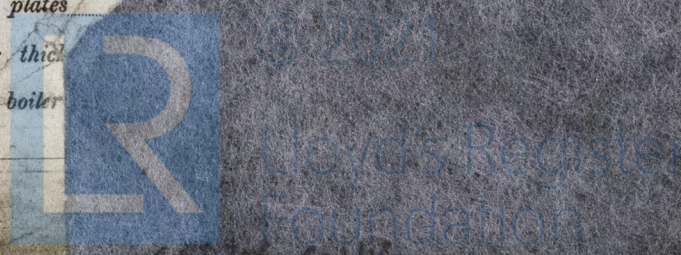
Description of Engines
 Diameter of Cylinders Length of Stroke No. of Rev. per minute Point of Cut off, High Pressure Low Pressure
 Diameter of Screw shaft Diam. of Tunnel shaft Diam. of Crank shaft journals Diam. of Crank pin size of Crank webs
 Diameter of screw Pitch of screw No. of blades state whether 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 stowage 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 *Cyl. Mult. single ended* Whether Steel or Iron *Steel*
 Working Pressure *100 lbs* Tested by hydraulic pressure to *200 lbs* Date of test *Nov 16th 1885*
 Description of superheating apparatus or steam chest *Vertical dome*
 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 *33* Description of safety valves *Direct spring* No. to each boiler *Two*
 Area of each valve *8.9 sq* 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"* Diameter of boilers *10 ft*
 Length of boilers *4" 3"* description of riveting of shell long. seams *Quad. riv. lap* circum. seams *dbl riv lap* Thickness of shell plates *1 1/2"*
 Diameter of rivet holes *1 5/16"* whether punched or drilled *drilled* pitch of rivets *4"* Lap of plating *9"*
 Per centage of strength of longitudinal joint *44.7 & 44.2* at *3 1/2"* thickness of plate working pressure of shell by rules *97 lbs* at *44.2%* size of manholes in shell *16" x 12"*
 Size of compensating rings *5" x 1"* No. of Furnaces in each boiler *two*
 Outside diameter *36"* length, top *6 ft* bottom *8 ft* thickness of plates *1 1/2"* description of joint *Sgt. riv butt* if riv
 Greatest length between rings *6 ft* working pressure of furnace by the rules *103 lbs* combustion chamber plating, thickness, sides *1 1/2"* back
 Pitch of stays to ditto, sides *8 1/2" x 8 1/2"* back *8 1/2" x 8 1/2"* top *8 1/2" x 7 1/2"* If stays are fitted with nuts or riveted heads *nuts* work
 rules *106 lbs* Diameter of stays at smallest part *1 3/8"* working pressure of ditto by rules *104 lbs* end plates in steam space, thickness
 Pitch of stays to ditto *1 5/8" x 1 5/8"* how stays are secured *dbl nuts & washers* working pressure by rules *105 lbs*
 smallest part *2"* working pressure by rules *104 lbs* Front plates at bottom, thickness *1 1/2"*
 Greatest pitch of stays *12"* working pressure by rules *100 lbs* Diameter of tubes *3 1/2" (6 x)* pitch of tubes
 plates, front *3 1/4"* back *3 1/4"* how stayed *Stay tubes* pitch of stays *2 1/4"*
 Diameter of Superheater or Steam chest *2 1/4"* length *3 ft* thickness of plates *1 1/2"* description of longitudinal joint
 Pitch of rivets *3 3/8"* working pressure of shell by rules *106 lbs* diameter of flue thickness of plates
 Distance between rings working pressure by rules end plates of superheater, or steam chest; thick
2" dia Superheater or steam chest; how connected to boiler

(State if Report is also sent on the Hull of the Ship)

(Form No. 8-200-14/85-Transfer Ink.)



DONKEY BOILER— Description *Vertical with one cross tube*
 Made at *Glasgow* by whom made *Messrs H Wallace & Co* when made *1885* where fixed *Stokehole*
 Working pressure *80 lbs* tested by hydraulic pressure to *160 lbs* No. of Certificate *1643* fire grate area *80 feet* description of safety
 valves *Direct Spring* No. of safety valves *one* area of each *7 sq* if fitted with easing gear *yes* if steam from main boilers can
 enter the donkey boiler *no* diameter of donkey boiler *3' 10"* length *4' 8"* description of riveting *dbl riv lap*
 Thickness of shell plates *3/8"* diameter of rivet holes *13/16"* whether punched or drilled *drilled* pitch of rivets *3 3/4"* lap of plating *3 3/4"*
 per centage of strength of joint *75%* thickness of crown plates *9/16"* stayed by *3 - 2" stays*
 Diameter of furnace, top *2' 9"* bottom *3' 2"* length of furnace *3' 2"* thickness of plates *7/16"* description of joint *single riv lap*
 Thickness of furnace crown plates *2"* stayed by *as above* working pressure of shell by rules *122 lbs*
 Working pressure of furnace by rules *90 lbs* diameter of uptake *10"* thickness of plates *7/16"* thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

H Wallace

Manufacturer.

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

The above Boilers have been constructed under special survey, the material has been tested at the Steel Works with satisfactory result, and the workmanship is good. They have now been forwarded to Greenock, where they are to be fitted on board of the vessel

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

FRIDAY 18 DEC 1885



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