

Workmanship. Are the butts of plating planed or otherwise fitted? *planed*
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *Yes*
Are the fillings between the ribs and plates solid single pieces? *Yes*
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes*
Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces? *Yes*
Do any rivets break into or through the seams or butts of the plating? *Yes*

Masts, ~~Down~~ Yards, &c., are *in* *good* condition, and sufficient in size and length. If of Iron or Steel give
Plating, Angle Iron, &c., and further explain by a sketch showing how the lower masts and bowsprit are constructed, showing the number of Plates and Angle Irons, made of riveting, quality
and if stamped with Maker's name.
State also Length and Diameter of Lower Masts and Bowsprit *See plan. Masts as appended amended the*
and letter letter
Butts have rivets
and straps as per

NUMBER FOR EQUIPMENT

SAILS. Chain *Iron*
Fore Sails, or Steel Wire
Fore Top Sails, or Hempen St
Fore Topmast Cable, ...
Stay Sails, Towline, *Iron*
Main Sails, or Steel Wire
Hawser, ...
Main Top Sails, Warp, ...
and quality
Standing and Running Rigging
The Windlass is *Hand*

Engine Room Skylights.—How e
What arrangements for deadlights in
Coal Bunker Openings.—How co
Sumpers, &c.—What arrangement

Cargo Hatchways.—How formed
State size Main Hatch *10 x 10*
If of extraordinary size, state how fra
What arrangement for shifting beams
Hatches, If strong and efficient?

Order for Special Survey No. *194*
Date *19/4/81*
Order for Ordinary Survey No.
Date
No. *241* in builder's yard.

General Remarks (State quality c
in accordance w
additions as per
Rules for the I.C.

the Committee
has been main
12 1/2" to 100 in

pratched from
manship is

State if any, two, or three distinct marks, or

How are the surfaces preserved fr

I am of opinion this Vessel should be

The amount of the Entry Fee ...

on 4364 was Special ...

Certificate

(Travelling Expenses, if any, &

Committee's Minute

Character assigned

100A

100A

100A

100A

REPORT ON MACHINERY.

No. 5182

No. in Survey held at *Hull*
Reg. Book.

Date, first Survey *12 July '81* Last Survey *10 Aug '81* 1882

on the *iron screw steamer* *Grecian Monarch* Tons *4363.6*

Master *R. P. Bristow* Built at *Hull* When built *1882*

Engines made at *Hull* By whom made *Charles G.* when made *1882*

Boilers made at *Hull* By whom made *Charles G.* when made *1882*

Registered Horse Power *550* Owners *Royal Exchange Shipping Co.* Port belonging to *London*

ENGINES, &c.—

Description of Engines *Vertical, inverted, compound, surface condensing*

Diameter of Cylinders *43" x 80"* Length of Stroke *60"* No. of Rev. per minute *24* Point of Cut off, High Pressure *3/4"* Low Pressure *3/4"*

Diameter of Screw shaft *16"* Diameter of Tunnel shaft *15"* Diameter of Crank shaft journals *15 1/2"* Diameter of Crank pin *15 1/2"* size of Crank webs *11 1/2" x 21"*

Diameter of screw *19" 0"* Pitch of screw *23" 0"* No. of blades *4* state whether moveable *yes* total surface *96 sq. feet*

No. of Feed pumps *2* diameter of ditto *6 1/2"* Stroke *36"* Can one be overhauled while the other is at work *yes*

No. of Bilge pumps *2* diameter of ditto *6 1/2"* Stroke *36"* Can one be overhauled while the other is at work *yes*

Where do they pump from *all holds, Engine Room & Tunnel*

No. of Donkey Engines *Two* Size of Pumps *10" x 12" x 12" x 12"* Where do they pump from *the Ballast engine from tanks*

No. of bilge injections *one* and sizes *7 1/2" valve* Are they connected to condenser, or to circulating pump *each circulating pump*

How are the pumps worked *by rocking levers from distanced crosshead*

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 spigot and brass covering plate *yes*

What pipes are carried through the bunkers *Bilge suction pipes* How are they protected *Strong wood casing*

Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times *yes in engine room*

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 *have been*

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

Number of Boilers *4* Description *Two double ended Circular, multitubular, of ordinary marine type*

Working Pressure *80 lb* Tested by hydraulic pressure to *160 lb* Date of test *29th April & 1st May 1882*

Description of superheating apparatus or steam chest *none fitted*

Can each boiler be worked separately *yes* Can the superheater be shut off and the boiler worked separately *no superheaters*

No. of square feet of fire grate surface in each boiler *40 x 80* Description of safety valves *Cameron & Sons spring loaded*

No. to each boiler *2* area of each valve *14.19 sq. in* Are they fitted with easing gear *yes*

No. of safety valves to superheater *2* area of each valve *14.19 sq. in* are they fitted with easing gear *yes*

Smallest distance between boilers and bunkers or woodwork *five inches*

Diameter of boilers *13' 9"* Length of boilers *19' 2"* description of riveting of shell long. seams *double riveted butts* circum. seams *double riveted*

Thickness of shell plates *3/16" & 1/8"* diameter of rivet holes *1 1/8"* whether punched or drilled *drilled* pitch of rivets *4 1/2"*

Lap of plating *Butt & lap* per centage of strength of longitudinal joint *75* working pressure of shell by rules *96 lb & 85 lb*

Size of manholes in shell *16" x 12"* size of compensating rings *28" x 24" x 3/4"*

No. of Furnaces in each boiler *4* outside diameter *48"* length, top *1' 7"* bottom *9' 3"*

Thickness of plates *1/2 in* description of joint *Butt joint with double rivets* are they fitted *yes* greatest length between rings *3' 4"*

Working pressure of furnace by the rules *81 lb*

Combustion chamber plating, thickness, sides *1/2 in* back *1/2 in* top *1/2 in*

Pitch of stays to ditto sides *9" x 9" 1/2 in 10/11* back *9 1/2" x 9" 1/2"* top *rounded*

If stays are fitted with nuts or riveted heads *nuts & supported by anchor* working pressure of plating by rules *80 lb to 95 lb*

Diameter of stays at smallest part *1 1/2"* working pressure of ditto by rules *113 lb* (centre of gravity to carry 101 lb)

End plates in steam space, thickness *1 1/8" with large angles* pitch of stays to ditto *16" x 16"* how stays are secured *double riveted*

Working pressure by rules *100 lb* diameter of stays at smallest part *2 1/4"* working pressure by rules *103 lb*

Front plates at bottom, thickness *5/8"* Back plates, thickness *1 1/8" & 7/8"* greatest pitch of stays *14"* working pressure by rules *80 lb*

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Diameter of tubes $3\frac{1}{2}$ " pitch of tubes 5" thickness of tube plates, front $\frac{3}{4}$ " back $\frac{7}{8}$ "
How stayed Stay tubes as per approved drawing width of water spaces $1\frac{1}{2}$ "
Diameter of Superheater or Steam chest length
Thickness of plates description of longitudinal joint diameter of rivet holes pitch of rivets
Working pressure of shell by rules Diameter of flue thickness of plates
If stiffened with rings distance between rings Working pressure by rules
End plates of superheater, or steam chest; thickness How stayed
Superheater or steam chest; how connected to boiler

DONKEY BOILER - *For Drizzing* Description *Vertical, circular with internal flue, (made of iron)*
Made at *Hull* By whom made *Earles* when made *1882*
Where fixed *on the main Bunkers* working pressure *40 lbs* Tested by hydraulic pressure to *80 lbs* No. of Certificate
Fire grate area *14 sq. ft* Description of safety valves *Spring loaded* No. of safety valves *One* area of each *7 sq. inch*
If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *No*
Diameter of donkey boiler *5.0* length *7.0* description of riveting *single riveted lap joints*
thickness of shell plates *$\frac{3}{8}$ "* diameter of rivet holes *$1\frac{1}{16}$ "* whether punched or drilled *punched*
pitch of rivets *$1\frac{1}{16}$ "* lap of plating *$2\frac{1}{4}$ "* per centage of strength of joint *58*
thickness of crown plates *$\frac{7}{8}$ "* stayed by *4. 2" vertical stays and stiffened with Ties*
Diameter of furnace, top *42"* bottom *54"* length of furnace *4.0*
thickness of plates *$\frac{3}{8}$ "* description of joint *welded*
thickness of furnace crown plates *$\frac{7}{16}$ "* stayed by *4 vertical stays*
Working pressure of shell by rules *56 lbs* working pressure of furnace by rules *58 lbs*
diameter of uptake *12"* thickness of plates *$\frac{3}{8}$ "* thickness of water tubes *$\frac{3}{8}$ "*

The foregoing is a correct description,

Frank M. Pearson Secy Manufacturer.

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

The machinery fitted on board in accordance with the Society's rules, and Boilers made to approved design are now, in my opinion in safe working condition, and the case is respectfully submitted for the favorable consideration of the Committee with a view to the notification *L.M.O. 8.82 in the Register Book*

It is submitted that this vessel is eligible to have the notification signed & recorded
PM 28/8/82

The amount of Entry Fee .. £ 3: " : "received by me, *M.H.*

Special .. £ 44: 10: "

Certificate (if required) .. £ 2: 2: " *23/8/82*

To be sent as per margin.

(Travelling Expenses, if any, £ ..)

Committee's Minute

Tuesday, 29th August, 1882.

John B. Stevens, Esq. R.N.
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.