

SHIP'S NAME

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Comp^d, Mtd, D. A. S. Cond^g*
Made by *Messrs Forester & Co*
When *1879* At *Liverpool*
Diameter of cylinders *24 28* Length of stroke *4 6*
No. of revolutions per minute *about 60*
Point of cut off *Variable*
Diameter of screw shaft *15*
Diameter of crank shaft journals *15*
Diameter of screw, or of paddle wheel *20 0*
Pitch of screw *23 0*
Total surface *100 ft*
Pumps *2* and sizes *4 1/2 diam*
Pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
No. of feed pumps *2* and sizes *4 1/2*
What gauges are there attached to the engines and boilers ... *1 Pres to each Boiler in S. Hold. 1 Pres. 1 Vacuum & 1 Comp^d in E. R.*
Description and size of Donkey Pumps ... *1 of 10" Steam Cyl. D. Acting.*
Where do they pump from ... *Sea Bilges & Condenser, to Boiler Deck and overboard.*
No. of bilge injections *2* and sizes *6*
Are they connected to air, or circulating pumps *Circulating*
Is there a hand pump in the engine room *Yes*
Can it be worked by the main engines *No*
Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *Three* Description *Cyl Retn Subular*
Made by *Messrs Forester & Co*
When *1879* At *Liverpool*
Working pressure *80 lbs*
Tested by hydraulic pressure to *160 lbs*, Date *22nd May 1879*
Description of super-heating apparatus *Not any.*
Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *No superheater*
Description and area of safety valves on each boiler ... *2 of Spring load = 25.9 area each*
No. of square feet of fire-grate surface in each boiler *102*
Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times ... *Yes*

2 DONKEY BOILERS

Made by *J. H. Wilson & Co. of Liverpool*

Description *Vertical Cyl. Crim. Subed.*
Where fixed *In recess on lower deck beams.*
Working pressure *40 lbs.*

Tested by hydraulic pressure to *80*, Date *15th July*
Description and area of safety valves *1 of Spring = 7.0 area each*
No. of square feet of fire grate *12.5*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Yes*
Are they Kingston valves or common cocks ... *Common cocks & vents*
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Yes*
Are the discharge pipes above or below the deep water line *all but bilge discharges*
Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *Not any*
How are they protected *at this time*
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *at this time*
Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Yes*

Geo. Forester & Co. Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "British Crown" owned by The British S. & C. Co. (Limited) of the Port of *Liverpool* of *2245* Tons Register, and *300* Registered Horse Power, and that they have been carefully inspected and examined by me at *Belfast* and found to be at this date, viz., *October* 1879 in good order and safe working condition.

Amount of Fee for Survey ... £15:0:0
(Travelling Expenses, if any, £ *2-0-0*)
3 visits to Belfast.

Engineer Surveyor to Lloyd's Register of Shipping.

The Machinery of this vessel has been built and
fitted in accordance with the Rules, submitted
to the Lloyds M.C.
It is eligible to the Lloyds
and a survey certificate given 6th Oct.

1879

W. 6.10.79



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Foundation