

SHIP'S NAME *British Crown* S.S.

24640 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Rec 6/11/79

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Comp<sup>d</sup>, Motd, D.A. Spec Condens*  
 Made by *Messrs Forester & Coy*  
 When *1879* At *Liverpool*  
 Diameter of cylinders *2 of 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, on or paddle wheel *20' 0"*  
 Diameter of screw *23' 0"*  
 Number of cylinders *4* Total surface *100sq ft*  
 Diameter of 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<sup>d</sup> 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 & Coy*  
 When *1879* At *Liverpool*  
 Working pressure *80 lbs*  
 Tested by hydraulic pressure to *160 lbs*, Date *22<sup>nd</sup> 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. Milner & Coy. of Liverpool*

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

Tested by hydraulic pressure to *80*, Date *15<sup>th</sup> 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 Raddle) Steam Vessel *"British Crown"* owned by *The British S. Bureau Coy (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, £ *9-0-0*)  
*3 visits to Belfast.*

*J. G. Kinghorn*  
 Engineer Surveyor to Lloyd's Register of Shipping.

No. 2646

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The Machinery of this vessel has been built and  
fitted in accordance with the Rules, submitted  
to the Hon. the Admiralty by Messrs Lloyd's M.C.,  
and a survey certificate given 6: 5: 54

1879

J.W. 6.10.79



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