

King Arthur 23670 Iron

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Pen 9/6/79

10. 21

No. 4767  
Hull  
Port  
Report (if any) on Hull of Vessel.

Description *Vert<sup>l</sup> in<sup>d</sup> Compound Surface Condens<sup>r</sup>* Are all the bilge suction pipes fitted with roses *Yes*

Made by *Blair & Co.*

When *1874* At *Stockton*

Diameter of cylinder *25 1/2" + 52"* Length of stroke *33"*

No. of revolutions per minute *65*

Point of cut off

Diameter of screw shaft *8 1/4" (in tunnel)*

Diameter of crank shaft journals *9" + 9"*

Diameter of screw, or of paddle wheel *12" 6"*

Pitch of screw *16" 0"*

No. of blades, *4* Total surface

No. of bilge pumps *2* and sizes *3 1/2" dia. x 24"*

Do they pump from each compartment *at Pump. Engine Bilge only  
Fore Pump. Engine Bilge and  
Aft donkey connections, also (but not  
to Boiler).*

No. of feed pumps *2* and sizes *3 1/2" x 24"*

What gauges are there attached to the engines and boilers ... *2 Steam & Vacuum  
and water gauge on Boiler*

Description and size of Donkey Pumps ... *One bleedng - Cy<sup>r</sup> Pump.  
Stroke 9"*

Where does the pump from ... *descri<sup>t</sup>  
Bilge, Tanks, Sea & afterwale  
2<sup>d</sup> deck, Boiler or overboard.  
(Sluice Valves on Bulkheads to run water  
out of holds to Engine Bilge)*

No. of bilge injections *One* and sizes *4 inches*

Are they connected to air, or circulating pumps *Circulating.*

Is there a hand pump in the engine room *No. but handle to donkey*

Can it be worked by the main engines *Yes*

Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

### MAIN BOILERS.

Number *One* Description *Cir. multitubular  
with 4 diameters*

Made by *Blair & Co.*

When *1874* At *Stockton.*  
*Retired Sept. '78*

Working pressure *65 lb.*

Tested by hydraulic pressure to \_\_\_\_\_, Date \_\_\_\_\_

Description of *Steam done  
super-heating  
apparatus* \_\_\_\_\_

Can each boiler be worked separately *about  
3" 6" not easy  
to check  
ends.*

Can the super-heater be shut off and the boilers worked separately *Yes*

Description and area of safety valves on each boiler ... *2, sprung loaded Ea. 4" dia  
area = 25.13 Sq. in.*

No. of square feet of fire-grate surface in each boiler *48 feet*

Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes (no guard for spanner)*

Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *In E Room. Yes*

### DONKEY BOILER.

Description *Vertical Circular*

Where fixed *On deck*

Working pressure *55 lb. at present on safety valve*

Tested by hydraulic pressure to \_\_\_\_\_, Date \_\_\_\_\_

Description and area of safety valves *1 lever loaded  
1 dead wt. Ea 2 1/2" dia  
area = 7.5 Sq. inch*

No. of square feet of fire grate *12.5 Sq. feet*

### 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 ... *locked down  
valves*

Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *No*

Are the discharge pipes above or below the deep water line *Below, except donkey  
discharge - a wash*

Are they each fitted with a discharge valve on the plating of the vessel *Yes.*

What pipes are carried through the bunkers *None*

How are they protected *Yes*

When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *22 May, 1879.*

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes.*

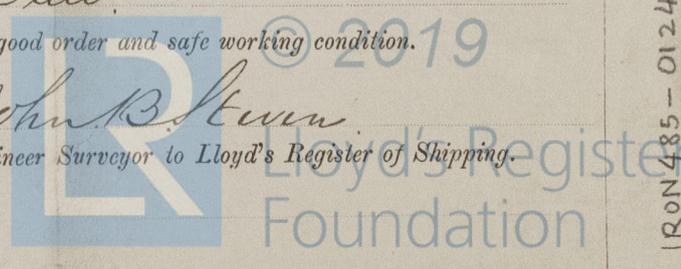
Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Iron Journal standing on  
aft. Tank. + 4" J. door on  
CR Bulkhead*

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 *"King Arthur"* owned by *J. Turnbull & Son* of the Port of *Whitby* of *1007* Tons Register, and *99* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hull* and found to be at this date, viz., *24<sup>th</sup> May* 18 *79* in good order and safe working condition.

Amount of Fee for Survey ... £ \_\_\_\_\_  
(Travelling Expenses, if any, £ \_\_\_\_\_)

*John B. Stuenkel*  
Engineer Surveyor to Lloyd's Register of Shipping



IRON 485-0124