

S. S. "Cymbeline" 23213 Iron.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted Surface Condensing* Are all the bilge suction pipes fitted with roses *Yes*  
Made by *J. Richardson & Sons* No. of feed pumps *2* and sizes *3 1/2 x 2 3/4 etc. Single Acting*  
When *March 18/99* At *Hartlepool* What gauges are there attached to the engines and boilers ... *2 Steam 1 Vacuum*  
Diameter of cylinder *29 x 53* Length of stroke *33* Description and size of Donkey Pumps ... *No 1 Pump 1 1/2 dia x 9 1/2 h Double Acting No 2 1 3/4 x 7*  
No. of revolutions per minute *About 65* Where do they pump from ... *Centre of after ballast & from engine room. No 2 from sea, hotwell, fore hold after well & engine room*  
Point of cut off *1/2 stroke* No. of bilge injections *1* and sizes *Circulating Pumps*  
Diameter of screw shaft *9 1/4* Are they connected to air, or circulating pumps *Donkeys work by hand*  
Diameter of crank shaft journals *9 1/4* Is there a hand pump in the engine room *Yes*  
Diameter of screw, or of paddle wheel *13.6* Can it be worked by the main engines *No*  
Pitch of screw *15.9* Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*  
No. of blades, *4* Total surface *53 1/2 sq feet*  
No. of bilge pumps *2* and sizes *2 5/8 x 3 1/4 etc. Single Acting*  
Do they pump from each compartment *from after well, fore hold & engine room*

MAIN BOILERS.

Number *One* Description *Tubular. Fired at both ends* Can the super-heater be shut off and the boilers worked separately *No Superheater*  
Made by *J. Richardson & Sons* Description and area of safety valves on each boiler ... *Two spring safety valves Combined area 35 sq in.*  
When *March 18/99* At *Hartlepool* No. of square feet of fire-grate surface in each boiler *58 sq feet*  
Working pressure *75 lbs* Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*  
Tested by hydraulic pressure to *150 lbs*, Date *11/12/98* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *Yes except suction pipes & power when ship is loaded*  
Description of super-heating apparatus *None*  
Can each boiler be worked separately *Only one boiler in ship*

DONKEY BOILER

Description *Vertical Water tubes in furnace* Made by *H. Cooper. Stockton on Tyne*  
Where fixed *In stokehole* Tested by hydraulic pressure to *150 lbs*, Date *29/11/98*  
Working pressure *75 lbs. Loaded to 65 lbs* Description and area of safety valves *1 direct - 2 1/4 dia = 8.4 sq in 1 lever - weight 2 1/2 = 11.04 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 ... *Stop valves and Cocks*  
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 *Below*  
Are they each fitted with a discharge valve on the plating of the vessel *Yes*  
What pipes are carried through the bunker *Portion of suction pipe to fore hold*  
How are they protected *Strong wood casing*  
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *New*  
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*

*J. Richardson & Sons*  
*The Chief Clerk*  
Manufacturers of Engines & Main Boilers only

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 *Cymbeline* owned by *J. Richardson & others*  
of the Port of *Hull* of *877.442* Tons Register, and *130* Registered Horse Power,  
and that they have been carefully inspected and examined by me at *Stockton and Hartlepool*  
and found to be at this date, viz., *31 March 1899* in good order and safe working condition.

Amount of Fee for Survey ... £ *6 : 10 : 0*  
Certificate *0 : 5 : 0* Recd. *9/4/99*  
(Travelling Expenses, if any, £ ...)

*James Bain*  
Engineer Surveyor to Lloyd's Register of Shipping.  
*Hartlepool*

120484-0049



The making of the account is fitted  
in accordance with the rules  
submitted that she is eligible  
to have Lloyd's M.C. and  
a meeting certificate  
from - 31<sup>st</sup> March/79

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10-4-79



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