

S. S. "Cymbeline" 23213 Iron.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

No. 10/4/79

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 18/79* At *Hartlepool*  
 Diameter of cylinder *29 x 53* Length of stroke *33*  
 No. of revolutions per minute *About 65*  
 Point of cut off *1/2 stroke*  
 Diameter of screw shaft *9 1/4*  
 Diameter of crank shaft journals *9 1/4* Tunnel shaft *8 3/4 dia*  
 Diameter of screw, or of paddle wheel *13.6*  
 Pitch of screw *15.9*  
 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 wall, fore hold & engine room* Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *One* Description *Tubular. Fixed at both ends* Can the super-heater be shut off and the boilers worked separately *No Superheater*  
 Made by *J. Richardson & Sons*  
 When *March 18/79* At *Hartlepool*  
 Working pressure *45 lbs*  
 Tested by hydraulic pressure to *150 lbs*, Date *11/12/78*  
 Description of super-heating apparatus *None*  
 Can each boiler be worked separately *Only one boiler in ship*

DONKEY BOILER Made by H. Cooper, Stockton on Tyne

Description *Vertical Water tubes in Furnace* Tested by hydraulic pressure to *150 lbs*, Date *29/11/78*  
 Where fixed *In stokehole*  
 Working pressure *45 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 lbs = 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* Manufacturers of Engines & Main Engines 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 *899.42* 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 1879* in good order and safe working condition.

Amount of Fee for Survey ... £ *6 : 10 : 0*  
 Certificate (Travelling Expenses, if any, £) *0 : 5 : 0*  
*James Bain* Engineer Surveyor to Lloyd's Register of Shipping  
*Hartlepool*

Report on Hull of Vessel. Report on Engines

180486-0069

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

*M*

10-4-79



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