

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Description *Horizontal Trunk*  
 Made by *J Penn & Son*  
 When *1855* At *Greenwich*  
 Diameter of cylinder *30"* Length of stroke *18"*  
 No. of revolutions per minute *90*  
 Point of cut off *—*  
 Diameter of screw shaft *—*  
 Diameter of crank shaft journals *—*  
 Diameter of screw, ~~or of paddle wheel~~ *9.6"*  
 Pitch of screw *10.6"*  
 No. of blades, *2* Total surface *—*  
 No. of bilge pumps *one* and sizes *1 1/2 dia 18 stroke*  
 Do they pump from each compartment *yes*  
 Are all the bilge suction pipes fitted with roses *yes*  
 No. of feed pumps *one* and sizes *1 1/2 dia 18 stroke*  
 What gauges are there attached to the engines and boilers ... *one steam to each Boiler one vacuum to engine*  
 Description and size of Donkey Pumps ... *Double acting 3 1/2 dia. 8 stroke*  
 Where do they pump from ... *Engine room stoke hole and fore & main holds*  
 No. of bilge injections *one* and sizes *2 3/4 dia*  
 Are they connected to air, or circulating pumps *Circulating*  
 Is there a hand pump in the engine room *no*  
 Can it be worked by the main engines *—*  
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

### MAIN BOILERS.

Number *two* Description *flat sided*  
 Made by *Mess. Richardson Hartlepool*  
 When *1869* At *—*  
 Working pressure *30 lbs*  
 Tested by hydraulic pressure to *1875 45 lbs* Date *1875*  
 Description of super-heating apparatus *Annular in funnel*  
 Can each boiler be worked separately *yes*  
 Can the super-heater be shut off and the boilers worked separately *yes*  
 Description and area of safety valves on each boiler *Dead weight 2 on each 28.2 sq. inches area*  
 No. of square feet of fire-grate surface in each boiler *—*  
 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*

### DONKEY BOILER.

Description *Cylindrical*  
 Where fixed *In stokehole*  
 Working pressure *40 lbs*  
 Tested by hydraulic pressure to *—* Date *—*  
 Description and area of safety valves *2 dead weight*  
 No. of square feet of fire grate *—*

### 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 ... *one common cocks reg. other Kingston*  
 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*  
 Are they each fitted with a discharge valve on the plating of the vessel *yes*  
 What pipes are carried through the bunkers *—*  
 How are they protected *—*  
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *March 1876*  
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *yes (this was done at this survey)*  
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *yes*

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 *Peninsular* owned by *J Hall & Co.*  
 of the Port of *London* of *377* Tons Register, and *80* Registered Horse Power,  
 and that they have been carefully inspected and examined by me at *London*  
 and found to be at this date, viz., *11 April* 1876 in good order and safe working condition.

*William Parker*  
 Engineer Surveyor to Lloyd's Register of Shipping.