

LOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted Surface Condensing*
 Made by *J. Richardson & Sons*
 When *April* 18*98* At *Hartlepool*
 Diameter of cylinder *30 x 64* Length of stroke *33*
 No. of revolutions per minute *About 65*
 Point of cut off *1/2 stroke*
 Diameter of screw shaft *9 1/2*
 Diameter of crank shaft journals *9 1/2*
 Diameter of screw, or of paddle wheel *14' 0"*
 Pitch of screw *15.6*
 No. of blades, *4* Total surface *56 sq ft*
 No. of bilge pumps *2* and sizes *2 5/8 x 3 1/4 stroke. Single Acting*
 Do they pump from each compartment *from fore hold, after well and from sides and centre of well in engine room*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *3 1/4 x 2 3/4 stroke. Single Acting*
 What gauges are there attached to the engines and boilers ... *2 steam 1 vacuum*
 Description and size of Donkey Pumps *Two double acting donkey pumps No 1 - 1 1/2 dia x 9 stroke No 2 - 3 1/2 dia x 9 stroke*
 Where do they pump from *from engine room & centre of fore engine room & after ballast tanks from centre of after tank & engine room No 2 from sea*
 No. of bilge injections *Two 1/2 dia x 9 stroke*
 Are they connected to air, or circulating pump *Circulating pumps*
 Is there a hand pump in the engine room *Donkey works by hand*
 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 *One* Description *Cyl. Multitubular Horizontal*
 Made by *J. Richardson & Sons*
 When *April* 18*98* At *Hartlepool*
 Working pressure *68 lbs*
 Tested by hydraulic pressure to *136 lbs* Date *22/3/98*
 Description of super-heating apparatus *None*

Can the super-heater be shut off and the boilers worked separately *No superheater*
 Description and area of safety valves on each boiler *Two spring safety valves Combined area 35 sq in*
 No. of square feet of fire-grate surface in each boiler *63.8 sq ft*
 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 *All except suction pipes & roses in holds when ship is loaded*

Description *Vertical Water tubes in furnace*
 Where fixed *In stokehole*
 Working pressure *50 lbs*

Tested by hydraulic pressure to *130 lbs* Date *30th June 98*
 Description and area of safety valves *1 direct & 1 blow weight. Combined area 1.95 sq in*
 No. of square feet of fire grate *13.3 sq ft*

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 bunkers *None*
 How are they protected *New*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *Yes*
 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 *Sluice door fitted*

J. Richardson & Sons
in Charge

Manufacturers of Engines and 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 *Oakdale* owned by *Steel, Young & Co*
 of the Port of *London* of *897.02* Tons Register, and *150* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Hartlepool*
 and found to be at this date, viz., *24 April* 18*98* in good order and safe working condition.

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

Engineer Surveyor to Lloyd's Register of Shipping.

The making of this paper is fitted
in accordance with the English
manuscript submitted that she is
eligible to have the notepad
Lloyd's M.O. on the Royal Book
and a Ministry certificate
for 2nd April 1876

MD 10.5.76



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