

LOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

20857 In

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Recd 9/5/78

Report (if any) on Hull of Vessel. Port of Origin. Date of Survey.

Description *Compound Inverted Surface Condensing*
 Made by *J. Richardson & Sons*
 When *April 18/78* 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 side 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 1/2 x 2 3/4 stroke. Single Acting*
 What gauges are there attached to the engines and boilers... *2 steam*
 Description and size of Donkey Pumps *Two double acting donkey pumps. No 1 - 1 1/2 dia x 9 stroke. No 2 - 3/2 dia x 9 stroke. No 3 pumps from wing & centre of fore engine*
 Where do they pump from... *from & after ballast tanks, from centre of after tank & engine room. No 2 from sea*
 No. of bilge injections *from fore hold, after well & sides & centre of well in engine room*
 Are they connected to air, or circulating pump *Circulating pumps*
 Is there a hand pump in the engine room *Donkey work 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 Hand at top ends*
 Made by *J. Richardson & Sons*
 When *April 18/78* At *Hartlepool*
 Working pressure *68 lbs*
 Tested by hydraulic pressure to *136 lbs*, Date *22/3/78*
 Description of super-heating apparatus *None*
 Can each boiler be worked separately *Only one boiler in ship*

Can the super-heater be shut off and the boilers worked separately *No*
 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*

DONKEY BOILER

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

Made by *Geo. Hancock, West Hartlepool*
 Tested by hydraulic pressure to *130 lbs*, Date *30th June 78*
 Description and area of safety valves *1 direct & 1 lever & 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 *"*
 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 *Sluice door fitted*

J. Richardson & Sons Manufacturers of Engines and Main Boilers only
in Charleworth

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 1878* in good order and safe working condition.

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

James Ham
 Engineer Surveyor to Lloyd's Register of Shipping.

(1000/317/76.)



The making of this paper is settled
in accordance with the English
... to ... that she is
eligible to have the ...
... M.O. on the ...
...
24th April 1876

M 10.5.76



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