

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

21806 Iron

Rec 2/10/78

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted Surface Condensing*
 Made by *J. Richardson & Sons*
 When *Sept 18/78* At *Hartlepool*
 Diameter of cylinder *32 x 59* Length of stroke *33*
 No. of revolutions per minute *About 60*
 Point of cut off *About 1/2 stroke*
 Diameter of screw shaft *9 3/4*
 Diameter of crank shaft journals *9 1/4*
 Diameter of screw, or of paddle wheel *14.6"*
 Pitch of screw *15.6"*
 No. of blades, *4* Total surface *64 square feet*
 No. of bilge pumps *2* and sizes *3 x 3 1/4 stks. Single Acting*
 Do they pump from each compartment *From wings of engine room after valve - fore hold!*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *3 1/4 dia x 21 stks Single Acting*
 What gauges are there attached to the engines and boilers ... *2 steam 1 vacuum*
 Description and size of Donkey Pumps ... *2 No 2 3 1/2 x 1/2 dia x 9 stks Double Acting*
 Where do they pump from *2 No 1 pumps from centre of ballast tank in engine room, wing & centre of fore & after ballast tanks & from engine room No 2 from fore hold after valve & wing of engine room*
 No. of bilge injections *4 1/2* and sizes *4 1/2*
 Are they connected to air, or circulating pump *Circulating pump*
 Is there a hand pump in the engine room *Donkeys work by hand*
 Can it be worked by the main engines *No*
 Is there a deck hose of sufficient length to any part of the vessel *Yes*

MAIN BOILERS.

Number *One* Description *Cylindrical Multitubular*
 Made by *J. Richardson & Sons*
 When *Sept 18/78* At *Hartlepool*
 Working pressure *65 lbs* *Supply valves adjusted in presence of Mr Allan*
 Tested by hydraulic pressure to *130 lbs*, Date *22/8/78*
 Description of super-heating apparatus *Boilers tested in presence of Mr W. Greor Sunderland. 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 Superheater*
 Description and area of safety valves on each boiler *Two spring safety valves Combined area 35.4 sq in*
 No. of square feet of fire-grate surface in each boiler *66.8*
 Are there separate blow off and brine cocks on each boiler, independent of those 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 frame*
 Where fixed *In stokehold*
 Working pressure *65 lbs* *Loaded to 55 lbs*

Made by *Clark, Chapman & Lumley*
 Tested by hydraulic pressure to *130 lbs*, Date *12/8/78*
 Description and area of safety valves *1 direct 2 3/4 dia = 13 sq in 1 lever 3 1/2 dia = 13 sq in*
 No. of square feet of fire grate *23.76 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 common 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 *None*
 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 *Tunnel not water tight Sluice door fitted*

J. Richardson & Sons Manufacturers of Engines & Main Boilers only
Mc Clelland & Smith

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 *Annandale* owned by *Steele, Young, & Co* of the Port of *London* of *1031.65* Tons Register, and *140* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hartlepool* and found to be at this date, viz., *16 September 1878* in good order and safe working condition.

Amount of Fee for Survey ... £ *4:0:0*
 Certificate *10.5.0*
 (Travelling Expenses, if any, £ *1/10/78*)

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

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THE REGISTER OF BRITISH AND FOREIGN SHIPPING

1850

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Eighty three
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records &
original parts
1850



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