

17563 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted*
 Made by *Seward & Co*
 When 18 *77* At *London*
 Diameter of cylinder *24" x 46"* Length of stroke *26"*
 No. of revolutions per minute *68*
 Point of cut off *High 19 inches*
Low 18 inches
 Diameter of screw shaft *7/16"*
 Diameter of crank shaft journals *7 3/16"*
 Diameter of screw, or of paddle wheel *11.6*
 Pitch of screw *15.6*
 No. of blades, *3* Total surface _____
 No. of bilge pumps *1* and sizes *5" x 14"*
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *2* and sizes *3" x 14"*
 What gauges are there attached to the engines and boilers ... } *1 Steam or Boiler*
1 vac 11 Steam or Engines
 Description and size of Donkey Pumps ... } *Inverted Single Acting*
4" dia 10" stroke
 Where do they pump from ... } *Bilges, Sea, and*
Holds.
 No. of bilge injections *1* and sizes *4 1/2"*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *Deck pump.*
 Can it be worked by the main engines *yes*
 Is there a deck hose of sufficient length to reach to any part of the vessel } *yes*

MAIN BOILERS.

Number *One* Description *Cylindrical.*
 Made by *Seward & Co*
 When 18 *77* At *London*
 Working pressure *60 lbs.*
 Tested by hydraulic pressure to *130 lbs.*, Date *Oct 14/76*
 Description of super-heating apparatus } *none*
 Can each boiler be worked separately _____

Can the super-heater be shut off and the boilers worked separately } _____
 Description and area of safety valves on each boiler ... } *2 Adams' valve 4" dia*
25.12 area
 No. of square feet of fire-grate surface in each boiler } *57 sq feet*
 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 *Vertical with Cross tubes*
 Where fixed *On Deck*
 Working pressure *60 lbs*

Tested by hydraulic pressure to *130 lbs.*, Date *Oct 14/76*
 Description and area of safety valves *1 Revolver weight 7.06*
1 SW 3.14 1 1/2"
 No. of square feet of fire grate *9.62 sq ft*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship } *Except one which is*
filled on a strong W.I
beland pipe.
 Are they Kingston valves } *Com. Cocks*
 or common cocks ... }
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... } *All but Boiler*
Blow off
 Are discharge pipes above or below the deep water line } *Main below*
others above
 Are they fitted with a discharge 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 } *At this time*
 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*

Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Steam Vessel *Greatham Hall* owned by *Tatham & Co* of *London* of *457* Tons Register, and *957* Registered Horse Power, which have been carefully inspected and examined by me at *London* on this date, viz., *January 5th* 18 *77* in good order and safe working condition.

James Milton
 Engineer Surveyor to Lloyd's Register of Shipping.
London

Report (if any) on Hull of Vessel.