

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Dec 17/6/78

Description *Compound Inverted Cy. Surface Condensing*
 Made by *Messrs Hawthorn & Co*
 When *May* 1878 At *Leith*
 Diameter of cylinder *25" x 44"* Length of stroke *30"*
 No. of revolutions per minute *80*
 Point of cut off *2/16*
 Diameter of screw shaft *8 1/2"*
 Diameter of crank shaft journals *8 3/4"*
 Diameter of screw, ~~or of paddle wheel~~ *9" 10"*
 Pitch of screw *15" increasing to 17 1/2"*
 No. of blades, *4* Total surface *40 feet*
 No. of bilge pumps *one* and sizes *3 3/8" 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 *3 3/8" Dia 18" Stroke*
 What gauges are there attached to the engines and boilers ... *2 Water & one Pressure in Strokehold, one each Compound vacuum & pressure on Engines*
 Description and size of Donkey Pumps ... *one upright 6" x 9" stroke 3 1/2" Dia double acting pump*
 Where do they pump from ... *from sea, hot bell, bilge to boiler through condensers through ship side & on Deck*
 No. of bilge injections *one* and sizes *4 1/2" bore*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *yes*
 Can it be worked by the main engines *yes by way shaft working air & circulating pumps*
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes - 90 feet*

MAIN BOILERS.

Num *2* Description *Circular Tubular*
 Mad *Messrs Hawthorn & Co*
 When *1878* At *Leith*
 Working pressure *65 lbs*
 Tested by pressure to *130 lbs*, Date *17/4/78*
 Description of apparatus *None only Domb*
 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 ... *Two Spring by Hawthorn & Co each 4 1/2" Dia total 29.8 area*
 No. of square feet of fire-grate surface in each boiler *54 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 *one Round upright 2 Salt Water*
 Where fixed *9" 9" x 4" 6" Strokehold*
 Working pressure *40 lbs*

Tested by hydraulic pressure to *100 lbs*, Date *8/4/78*
 Description and area of safety valves *2 Direct Load 4.8 area*
 No. of square feet of fire grate *9.6 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 ... *cocks & valves*
 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 *above*
 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 *before launch*
 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*

Hawthorn & Co 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 *"Albatross"* owned by *Mr Young, Mr Muir & Mr Harris* of the Port of *Carlisle* of *197* Tons Register, and *85* Registered Horse Power, and that they have been carefully inspected and examined by me at *Leith* and found to be at this date, viz., *21st May* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £5 : 0 : 0
 (Travelling Expenses, if any, £5 : 2 : 0)

John Sturrock
 Engineer Surveyor to Lloyd's Register of Shipping.

The Making of this vessel is fitted
in accordance with the Commission
requirements, it is submitted that
she is eligible to have the
notification Lloyd's M.P. in
the Register Book and a
making certificate for

28 May 1878

MM

18-6-78



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