

S.S. "Acton" 22459 Iron
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Dec 11/1879

Description	<i>Comp^d Int^d. S. A. Sps Cond^d</i>	Are all the bilge suction pipes fitted with roses	<i>Yes</i>
Made by	<i>N. E. Marine Coy.</i>	No. of feed pumps	<i>2</i> and sizes <i>4"</i>
When	<i>1874</i> At <i>Sunderland</i>	What gauges are there attached to the engines and boilers ...	<i>1 Pressure in Strokehold 1 - " - 7 one Vacuum in E. R.</i>
Diameter of cylinders	<i>35" & 63"</i> Length of stroke <i>36"</i>	Description and size of Donkey Pumps ...	<i>2. 1 of 10" S.C. 1 of 4" S. Cyl^d.</i>
No. of revolutions per minute	<i>60</i>	Where do they pump from	<i>Sea. Cond^d, Bilges & M. B. Tank to Boilers, D^d and overboard.</i>
Point of cut off	<i>Variable</i>	No. of bilge injections	<i>2</i> and sizes <i>4" & 3 3/4"</i>
Diameter of screw shaft	<i>11 1/2"</i>	Are they connected to air, or circulating pumps	<i>Air</i>
Diameter of crank shaft journals	<i>10 1/2"</i>	Is there a hand pump in the engine room	<i>No</i>
Diameter of screw, or of paddle wheel	<i>13 ft</i>	Can it be worked by the main engines	<i>Yes</i>
Pitch of screw	<i>19 ft.</i>	Is there a deck hose of sufficient length to reach to any part of the vessel	<i>Yes</i>
No. of blades, <i>4</i> Total surface	<i>53 ft.</i>		
No. of bilge pumps <i>2</i> and sizes	<i>4"</i>		
Do they pump from each compartment	<i>Yes</i>		

MAIN BOILERS.

Number	<i>Two</i>	Description	<i>Cyl^d and Ret^d Subular</i>	Can the super-heater be shut off and the boilers worked separately	<i>No superheater</i>
Made by	<i>N. E. Marine Coy.</i>			Description and area of safety valves on each boiler	<i>2 of Spring = 11.0 area each</i>
When	<i>1874</i> At <i>Sunderland</i>			No. of square feet of fire-grate surface in each boiler	<i>88 ft</i>
Working pressure	<i>65 lb.</i>			Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin	<i>Yes</i>
Tested by hydraulic pressure to	<i>—</i> , Date <i>—</i>			Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times	<i>Yes</i>
Description of super-heating apparatus	<i>Not any.</i>				
Can each boiler be worked separately	<i>Yes</i>				

DONKEY BOILER.

Description	<i>Cyl^d and vertical</i>	Tested by hydraulic pressure to	<i>—</i> , Date <i>—</i>
Where fixed	<i>In recess in Strokehold</i>	Description and area of safety valves	<i>Direct load = 9.6 area</i>
Working pressure	<i>35 lb.</i>	No. of square feet of fire grate	<i>12 1/2 ft</i>

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship	<i>Yes</i>	What pipes are carried through the bunkers	<i>Not any.</i>
Are they Kingston valves or common cocks ...	<i>C.C. & chests.</i>	How are they protected	<i>—</i>
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates	<i>Yes.</i>	When were the stern tube, propeller, screw shaft, and all connections examined in dry dock	<i>At this time</i>
Are the discharge pipes above or below the deep water line	<i>Under</i>	Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge	<i>Yes</i>
Are they each fitted with a discharge valve on the plating of the vessel	<i>Yes</i>	Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead	<i>Yes</i>

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 *"Acton"* owned by *Watts Milburn & Coy.* of the Port of *London* of *1066* Tons Register, and *200* Registered Horse Power, and that they have been carefully inspected and examined by me at *Liverpool* and found to be at this date, viz., *6th Jan^y* 18 *79* in good order and safe working condition.

Amount of Fee for Survey ... £ *5 : 5 : 0* .. *paid in*

(Travelling Expenses, if any, £

J. G. Kinghorn
Engineer Surveyor to Lloyd's Register of Shipping.

The Machinery and Boilers of the
Steam have been surveyed and are found
to be in good condition and fitted
in accordance with the Committee
requirements submitted that she is
eligible to have Lloyd's M.C.
and a machinery certificate

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Acton

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Foundation