

S.S. "William Burkitt" 2263 Iron
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Report (if any) of Tull of Vessel. No. 14203
Description *Inverted, Comp. Surface Condensing*
Made by *Messrs R & W Hawthorn*
When *Decr 1878* At *Newcastle*
Diameter of cylinders *33" & 66"* Length of stroke *42"*
No. of revolutions per minute *60*
Point of cut off *5/8 & 1/2*
Diameter of screw shaft *11"*
Diameter of crank shaft journals *11 1/4"*
Diameter of screw, ~~or of paddle wheel~~ *16 ft*
Pitch of screw *18 ft*
No. of blades, *4* Total surface *65 1/2 sq ft*
No. of bilge pumps *2* and sizes *3 3/4 x 21*
Do they pump from each compartment *yes*

Rec 5/21/79
Are all the bilge suction pipes fitted with roses *yes*
No. of feed pumps *2* and sizes *3 3/4 x 21*
What gauges are there attached to the engines and boilers ... *Steam, 1 barometer, 1 Comp. in Engine room, 2 Steam in S.H., Ballast 8" x 1 1/4 & acting*
Description and size of Donkey Pumps ... *2 each 4 x 8 do*
Where do they pump from ... *Fore tank, Tunnel tank, Aft hold, Engine space, Main hold,*
No. of bilge injections *1* and sizes *4" diam*
Are they connected to air, or circulating pumps *Yes*
Is there a hand pump in the engine room *Yes*
Can it be worked by the main engines *— " —*
Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

MAIN BOILERS.

Number *Two* Description *Cy Matthitubular*
Made by *Messrs R & W Hawthorn*
When *Decr 1878* At *Newcastle*
Working pressure *75 lbs*
Tested by hydraulic pressure to *150 lbs*, Date *2.9.78*
Description of super-heating apparatus *None*
Can each boiler be worked separately *Yes, through receiver.*

Can the super-heater be shut off and the boilers worked separately *No Superheater*
Description and area of safety valves on each boiler ... *2 Spring valves 4" dia = 25" area*
No. of square feet of fire-grate surface in each boiler *54.5 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. *yes*

DONKEY BOILER.

Description *Cy. Matthitubular. 2 furnaces.*
Where fixed *On Deck*
Working pressure *50 lbs*

Tested by hydraulic pressure to *100 lbs* *certificate 10.1.78 Date 18.11.78*
Description and area of safety valves *1 dead weight 3 1/2" dia = 9.6" area*
No. of square feet of fire grate *18 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 ... *2 Kingston others 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 *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 *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 *yes*

R. W. Hawthorn Manufacturers.

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 "William Burkitt" owned by *James Laws, Surtees & Co* of the Port of *London* of *1231.57* Tons Register, and *250* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle* and found to be at this date, viz., *11th January 1879.* in good order and safe working condition.

Amount of Fee for Survey ... *£12.10.0*
Guipiale *0.5.0*
Travelling Expenses, if any, £ *—*

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

North Shields

The. Machinery and Boilers of this vessel
are fitted in accordance with the
Committee's requirements submitted that
she is eligible to have Lloyd's M.C.
and a machinery certificate from
11th July 1879

OM 7.2.79



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