

LOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Certificate for Vessels Navigated by Steam.

30th Day of November 1864

We certify that the whole of the Boilers and Machinery of the
 Steam Vessel Hettin belonging to Lith. Hull & Hamburg I.P.C. whereof
William Paulin is Master, 706 Tons, have been carefully inspected and
 I by us at Glasgow, and we find the same to be at
 this time in good order and safe working condition.

Witness my hands

Barclay Curle & Co Manufacturing Engineers

The following is a true Account of the Particulars of the Machinery of the Steam Vessel above named:

ENGINES.

Number of Cylinder	<u>Two</u>
Length of stroke	<u>41 inches</u>
Nº. per minute	<u>42 - "</u>
Estimated Power	<u>34 strokes</u>
Diameter of Paddle-wheels	<u>112 H.P.</u>
Length of Paddles	} <u>screw</u>
Breadth of Paddles	
Nº. of Paddles	
What motion	<u>2 motion</u>
of revolutions per minute	<u>85 revol.</u>
of the holding down bolts	<u>1 1/2 in.</u>
Condition of dº.	<u>new</u>
Maker of the Engines	<u>B.C. & Co</u>
Age of the Engines	<u>new</u>
When were they last taken out	<u>-</u>
Present condition of the Engines	<u>-</u>
Can injection water be taken from the bilge	} <u>yes</u>
in the event of a serious leak	

BOILERS.

Whether iron or copper	<u>Iron</u>
Working pressure	<u>20 lbs</u>
Can it be increased without going into the boiler	<u>yes, but the valves are under the charge of the Machine</u>
What are the means of changing the water while the boilers are at work	<u>surface and bottom blow-off cocks</u>
Maker of the Boilers	<u>B.C. & Co</u>
Age of the Boilers	<u>new</u>
When were they last taken out	<u>-</u>
Present condition	<u>-</u>
Nº. of feed pumps	<u>Two</u>
How attached	<u>to Engine Cops. Heads</u>
	<u>one steam Dorkay pump</u>
What clear space upon the topside of the boiler from wood work	<u>10 inches</u>
Dº. at the end from dº.	<u>6 - "</u>
Dº. round the chimney from dº.	<u>3 feet -</u>

FUEL.

Where stowed	<u>in Bunker</u>
If in contact with boiler	<u>no</u>
If not, what space between coal boxes and boiler	<u>6 inches</u>
For what quantity is room provided	<u>140 -</u>
If liable to get wetted	<u>no -</u>

PUMPS.

Nº. of hand pumps	<u>one double acting</u>
Can they be worked by the engine	<u>no</u>
If any attached to engine their purpose and size	<u>2 Bilge & 2 foot pumps</u>
Nº. of force pumps	<u>one double acting</u>
Nº. of branches, and hose of sufficient length to reach to every part of the vessel	<u>one & hose as required</u>

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