LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Certificate for Vessels Navigated by Steam.

28th Day of May 1870

We hereby certify that the whole of the Boilers and Machinery of the Steam Vessel James Hall belonging to Aberdeen whereof Andrew Sinclair is Master, 221·12 Tons, have been carefully inspected and examined by us at Aberdeen, and we find the same to be at this time in good order and safe working condition.

Witness my hand,

Hall Russell & Co
per Alex H. Wilson
Manufacturing Engineer.

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

ENGINES.

N°.	2
Diameter of Cylinders	23½" + 42"
Length of stroke	30"
N°. per minute	65
Estimated Power	65 NHP
Diameter of Paddle-wheels	
Length of Paddles	
Breadth of Paddles	
N°. of Paddles	Screw
On what motion	
N°. of revolutions per minute	
Size of the holding down bolts	1¼"
Condition of d°.	good
Maker of the Engines	Hall Russell & Co
Age of the Engines	new
~~When were they last taken out~~	
Present condition of the Engines	good
Can injection water be taken from the bilge in the event of a serious leak	yes

FUEL.

Where stowed	Alongside of Engines & Boiler
If in contact with boiler	No
If not, what space between coal boxes and boiler	Ample
For what quantity is room provided	50 tons
If liable to get wetted	No

BOILERS.

Whether iron or copper	Iron
Working pressure	60 lbs
Can it be increased without going into the boiler	no
What are the means of changing the water while the boilers are at work	The usual means
Maker of the Boilers	Hall Russell & Co
Age of the Boilers	new
When were they last taken out	
Present condition	
N°. of feed pumps	one
How attached	The usual way
What clear space upon the topside of the boiler from wood work	No wood work on top of boilers or round chimney
D°. at the end from d°.	
D°. round the chimney from d°.	

PUMPS.

N°. of hand pumps	3
Can they be worked by the engine	one can
If any attached to engine their purpose and size	~~feed~~ Bilge Air & Circulating pumps
N°. of force pumps	one
N°. of branches, and hose of sufficient length to reach to every part of the vessel	yes

Hall Russell & Co Manufacturing Engineers

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