9 Grk

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Certificate for Vessels Navigated by Steam.

22nd Day of December 1864.

I hereby certify that the whole of the Boilers and Machinery of the Steam Vessel Black Diamond belonging to Gauchalland Coal Co. whereof John Sinclair is Master, _____ Tons, have been carefully inspected and examined by me at Troon, and I find the same to be at this time in good order and safe working condition.

Witness my hand,

Andrew Barclay Manufacturing Engineer.

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

ENGINES.

.....	One Pair
Diameter of Cylinder	29½"
Length of stroke	22"
Number minute	90
Nominal Power	8 Horses nominal
Diameter of ~~Paddle wheels~~ Screw	9 feet
Length of ~~Paddles~~ Screw	1" 9"
Breadth of ~~Paddles~~ Pitch of screw	14 feet
~~Paddles~~ Blades	2
What motion	direct acting first motion
No. of revolutions per minute	90
Size of the holding down bolts	1¾"
Condition of do.	new
Maker of the Engines	Andrew Barclay
Age of the Engines	new
When were they last taken out	never
Present condition of the Engines	new
Can injection water be taken from the bilge in the event of a serious leak	yes

BOILERS.

Whether iron or copper	Iron
Working pressure	20 to 25 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	Blow through with cocks
Maker of the Boilers	Andrew Barclay
Age of the Boilers	new
When were they last taken out	never
Present condition	new
No. of feed pumps	One and one Giffard Injector No 10.
How attached	Pump wrought by a beam at side of air pump
What clear space upon the topside of the boiler from wood work	15"
Do. at the end from do.	18"
Do. round the chimney from do.	

FUEL.

Where stowed	Bunkers at sides of Boiler
Is in contact with boiler	no
If not, what space between coal boxes and boiler	13 inches
For what quantity is room provided	12 Tons
Is liable to get wetted	no

PUMPS.

No. of hand pumps	one
Can they be worked by the engine	no
If any attached to engine their purpose and size	one Bilge pump 4¼" diameter 11" stroke
No. of force pumps	one
No. of branches, and hose of sufficient length to reach to every part of the vessel	100 feet of hose 2 branches one for Injector and one for pump.

Andrew Barclay Manufacturing Engineer.

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