LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Certificate for Vessels Navigated by Steam.

Sixth Day of April 1867.

I certify that the whole of the Boilers and Machinery of the Steam Vessel Alster belonging to Stanburg whereof C. Thuessen is Master, 708.97 Tons, have been carefully inspected and examined by me at Wallsend, and I find the same to be at this time in good order and safe working condition.

Witness my hand,

W Boyd Manufacturing Engineer.

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

ENGINES.

N°.	2 Steam Cylinders
Diameter of Cylinder	36 ins
Length of stroke	26 ins
N°. per minute	70
Estimated Power	80 H Power
Diameter of ~~Paddle-wheels~~ Propellor	11 feet
Length of Paddles feet	16 feet
Breadth of Paddles	3 —
N°. of ~~Paddles~~ Blades	—
On what motion	direct
N°. of revolutions per minute	
Size of the holding down bolts	2" ø
Condition of d°.	new
Maker of the Engines	Thompson Boyd & Co.
Age of the Engines	new
When were they last taken out	
Present condition of the Engines	
Can injection water be taken from the bilge in the event of a serious leak	yes

BOILERS.

Whether iron or copper	Iron
Working pressure	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	steam & blow off pipes
Maker of the Boilers	Thompson Boyd & Co.
Age of the Boilers	new
When were they last taken out	—
Present condition	—
N°. of feed pumps	2
How attached	to air pumps cross heads
What clear space upon the topside of the boiler from wood work	2 feet
D°. at the end from d°.	same
D°. round the chimney from d°.	same

FUEL.

Where stowed	in Bunkers
If in contact with boiler	no
If not, what space between coal boxes and boiler	6"
For what quantity is room provided	80 Tons
If liable to get wetted	Not.

PUMPS.

N°. of hand pumps	~~Steam~~ Donkey Can be worked by hand
Can they be worked by the engine	no
If any attached to engine their purpose and size	2 bilge pumps attached to the air pump cross heads the same size as the feed pumps
N°. of force pumps	~~Steam~~ Donkey
N°. of branches, and hose of sufficient length to reach to every part of the vessel	yes

W Boyd Manufacturing Engineer.

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