LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Certificate for Vessels Navigated by Steam.

11th Day of June 1866

We certify that the whole of the Boilers and Machinery of the Steam Vessel "Sofia" belonging to Grangemouth whereof Milly Glasgow is Master, 277 Tons, have been carefully inspected and examined by us at Glasgow, and we find the same to be at this time in good order and safe working condition.

Witness my hand,

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 Cylinder	32 inches
Length of stroke	27 inches
N°. per minute	80
Estimated Power	75 Nominal
Diameter of Paddle-wheels	
Length of Paddles	
Breadth of Paddles	
N°. of Paddles	1 Screw
On what motion	direct acting
N°. of revolutions per minute	
Size of the holding down bolts	1¼
Condition of d°.	new
Maker of the Engines	J. Aitken & 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 Boiler & Engines
If in contact with boiler	no
If not, what space between coal boxes and boiler	6 inches
For what quantity is room provided	40 Tons
If liable to get wetted	no

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	Feed pumps & blowing off
Maker of the Boilers	Jas Aitken & Co
Age of the Boilers	new
When were they last taken out	
Present condition	good
N°. of feed pumps	2
How attached	to Engines
What clear space upon the topside of the boiler from wood work	12 inches
D°. at the end from d°.	to Iron Bulkhead
D°. round the chimney from d°.	18 inches

PUMPS.

N°. of hand pumps	1 & 1 Donkey Engine Pump
Can they be worked by the engine	no
If any attached to engine their purpose and size	Two Feed & Two Bilge pumps worked by Engines
N°. of force pumps	6 Pumps in all
N°. of branches, and hose of sufficient length to reach to every part of the vessel	1 with sufficient hose & nozzle

James Aitken & Co Manufacturing Engineers

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