8494 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Certificate for Vessels Navigated by Steam.

Innerkeithing, 18th Day of November 1870.

We John Scott & Sons certify that the whole of the Boilers and Machinery of the Steam Vessel "Ella" belonging to Leith whereof Andrew Nicoll is Master, 692/443 Tons, have been carefully inspected and examined by us at Innerkeithing, and We find the same to be at this time in good order and safe working condition.

Witness ~~my~~ our hand,

John Scott & Sons Manufacturing Engineers

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

ENGINES.

N°.	Two
Diameter of Cylinders	20 & 36"
Length of stroke	27"
N°. per minute	65
Estimated Power	654 HP Nom
Diameter of Paddle-wheels	"
Length of Paddles	"
Breadth of Paddles	"
N°. of Paddles	"
On what motion	"
N°. of revolutions per minute	"
Size of the holding down bolts	2 inches
Condition of d°.	Good
Maker of the Engines	John Scott & Sons
Age of the Engines	New
When were they last taken out	
Present condition of the Engines	New
Can injection water be taken from the bilge in the event of a serious leak	yes

FUEL.

Where stowed	Bunkers
If in contact with boiler	No
If not, what space between coal boxes and boiler	Six inches
For what quantity is room provided	75 tons
If liable to get wetted	No

BOILERS.

Whether iron or copper	Iron
Working pressure	70 lbs
Can it be increased without going into the boiler	Locked safety valve
What are the means of changing the water while the boilers are at work	Blow off cocks
Maker of the Boilers	John Scott & Sons
Age of the Boilers	New
When were they last taken out	
Present condition	New
N°. of feed pumps	Two
How attached	To Engines
~~One Donkey for feed~~	
~~One Hand Pump~~	
What clear space upon the topside of the boiler from wood work	All Iron
D°. at the end from d°.	6 feet
D°. round the chimney from d°.	All Iron

PUMPS.

N°. of hand pumps	Three
Can they be worked by the engine	No
If any attached to engine their purpose and size	Donkey
N°. of force pumps	Two & two
N°. of branches, and hose of sufficient length to reach to every part of the vessel	Donkeys 140 feet long 1 branch

John Scott & Sons Manufacturing Engineers

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