

22690 *Iron*

*S.S. "Brecoushire"*

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*See 13/2/79*

Port *Glasgow* No. *4495*  
Description *Compound Inverted Direct Acting*  
Made by *The London & Glasgow Coy*  
When *1879* At *Glasgow*  
Diameter of cylinder *36" & 66"* Length of stroke *42"*  
No. of revolutions per minute  
Point of cut off *Variable*  
Diameter of screw shaft *12"*  
Diameter of crank shaft journals *12"*  
Diameter of screw, ~~or of paddle wheel~~ *16" & 9"*  
Pitch of screw *19 ft*  
No. of blades *Four* Total surface *60 ft*  
No. of bilge pumps *Two* and sizes *4" dia x 2 1/2" stroke*  
Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*  
No. of feed pumps *Two* and sizes *4" dia x 2 1/2" stroke*  
What gauges are there attached to the engines and boilers ... *Three Steam, One Vacuum & One Compound*  
Description and size of Donkey Pumps ... *Double acting 5" x 10" stroke*  
Where do they pump from ... *From the Sea Pipe & Hotwell*  
No. of bilge injections *One* and sizes *4 3/4"*  
Are they connected to air, or circulating pumps *To Circulating*  
Is there a hand pump in the engine room *Yes*  
Can it be worked by the main engines *Yes*  
Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

### MAIN BOILERS.

Number *Two* Description *Round Horizontal*  
Made by *The London & Glasgow Coy*  
When *1878* At *Glasgow*  
Working pressure *90 lbs*  
Tested by hydraulic pressure to *140 lbs*, Date *Oct 27th 1878*  
Description of super-heating apparatus *Receiver on each Boiler*  
Can each boiler be worked separately *Yes*

*Receivers*  
Can the super-heater be shut off and the boilers worked separately *No*  
Description and area of safety valves on each boiler *Two Direct Spring each 15.9" area*  
No. of square feet of fire-grate surface in each boiler *57 ft*  
Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*  
Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *Yes*

### DONKEY BOILER.

Description *Round vertical*  
Where fixed *In Storehold forward*  
Working pressure *50 lbs*

Tested by hydraulic pressure to *100 lbs*, Date *Oct 27th 1878*  
Description and area of safety valves *Direct Spring 7" area*  
No. of square feet of fire grate *13 ft*

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Yes*  
Are they Kingston valves or common cocks ... *Seven down valves & Cocks*  
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Yes*  
Are the discharge pipes above or below the deep water line *Yes*  
Are they each fitted with a discharge valve on the plating of the vessel *Yes*  
*M. Kelly & Co Glasgow* Manufacturer.

What pipes are carried through the bunkers *Main Steam Pipe & Large pipes to Engine*  
How are they protected *By iron & wood casing*  
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *On ship previous to being launched*  
Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*  
Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Yes*

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or ~~Wood~~) Screw (or ~~Paddle~~) Steam Vessel "*Brecoushire*" owned by *J. F. Guthrie* of the Port of *London* of *1240.71* Tons Register, and *245* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow* *27th* and found to be at this date, viz., *Feb 2, 1879* in good order and safe working condition.

Amount of Fee for Survey ... *£13:15:0* paid  
(Travelling Expenses, if any, £ ... )

*James Morrison*  
Engineer Surveyor to Lloyd's Register of Shipping.

*Clyde District*



The Machinery and Boilers of this  
vessel are built in accordance  
with the rules submitted  
that she is eligible to  
have Lloyd's M.C. and  
a Certificate from 10 Feb.

1879

M 14. 2. 79



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