

SHIP'S NAME

*L.S. "Loe"*

24729 Iron

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Rec 14/10/79

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Description *Inverted Comp. Surface Condensing* Are all the bilge suction pipes fitted with roses *yes*  
Made by *Palmer's Coy. Limited* No. of feed pumps *2* and sizes *3 3/4" x 16 1/2"*  
When *Sept 1879* At *Newcastle* What gauges are there attached to the engines and boilers ... *1 Steam 1 Gauge in E Room, 1 Steam in Storehold*  
Diameter of cylinders *27 x 57* Length of stroke *33* Description and size of Donkey Pumps ... *9" x 12" double acting*  
No. of revolutions per minute *66* Point of cut off *1/2 Stroke*  
Diameter of screw shaft *9 1/2"*  
Diameter of crank shaft journals *9 1/2"*  
Diameter of screw, or of paddle wheel *13 ft 6 in*  
Pitch of screw *14 ft 6 in*  
No. of blades, *4* Total surface *43.5*  
No. of bilge pumps *2* and sizes *3 3/4" x 16 1/2"*  
Do they pump from each compartment *yes*  
*Three bilges accessible*

### MAIN BOILERS.

Number *One* Description *Cylindrical tubular* Can the super-heater be shut off and the boilers worked separately *no superheater*  
Made by *Palmer's Coy. Limited* Description and area of safety valves on each boiler ... *2 Spring Balances 4 1/2" dia = 32" area*  
When *Sept 1879* At *Newcastle* No. of square feet of fire-grate surface in each boiler *48 Sq ft*  
Working pressure *75 lbs* Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *yes*  
Tested by hydraulic pressure to *150 lbs*, Date *2.9.79* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *yes*  
Description of super-heating apparatus *none*  
Can each boiler be worked separately *One boiler*

### DONKEY BOILER.

Description *Upright Cylindrical* Tested by hydraulic pressure to *100 lbs*, Date *12.8.79*  
Where fixed *Storehold* Description and area of safety valves *1-3 1/4" dia = 8" area dead weight*  
Working pressure *50 lbs* No. of square feet of fire grate *17 1/2*

### 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 ... *Some Balve. Others 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 *above*  
Are they each fitted with a discharge valve on the plating of the vessel *yes*  
What pipes are carried through the bunkers *none*  
How are they protected *new*  
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *yes*  
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*

Manufacturers

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 *Loe* owned by *Messrs. Murdair & Co.*  
of the Port of *Louarn* of *756.68* Tons Register, and *130* Registered Horse Power,  
and that they have been carefully inspected and examined by me at *Newcastle*  
and found to be at this date, viz *29 September 1879* in good order and safe working condition.

Amount of Fee for Survey ...


£19:10:0

(Travelling Expenses, if any, £0:5:0)

Engineer Surveyor to Lloyd's Register of Shipping.

*John Brockat*  
*North Shields*



The Machinery of this vessel has been built  
and fitted in accordance with the rules  
and specifications arranged during construction  
submitted that she is eligible to have Lloyd's  
M.C. and a machinery certificate from  
29<sup>th</sup> September 1879. also the officers  
note  in red

MS 14.10.79



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