

19122 Iron  
**LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.**

**ENGINEER SURVEYOR'S REPORT ON MACHINERY.**

**ENGINES.**

Description *2 cyl<sup>rs</sup> Compound Inverted S.C.*  
 Made by *Amos & Smith*  
 When *July* 18*94* At *Hull*  
 Diameter of cylinder *28" x 53"* Length of stroke *36"*  
 No. of revolutions per minute *70*  
 Point of cut off *3/8 H.P. cylinders, 3/4 L.P. cylinders*  
 Diameter of screw shaft *9 3/16"*  
 Diameter of crank shaft journals *9 1/4"*  
 Diameter of screw, or of paddle wheel *13' 6"*  
 Pitch of screw *18' 3"*  
 No. of blades, *(14)* Total surface *48 sq feet*  
 No. of bilge pumps *(2)* and sizes *4 dia, 18" stroke*  
 Do they pump from each compartment *Engin Room Seat-  
aft Well.*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *(2)* and sizes *4 dia, 18" stroke*  
 What gauges are there attached to the engines and boilers ... *1 each Bilge Engine Room Steam  
1 in Strokehold for both sides  
1 vacuum gauge*  
 Description and size of Donkey Pumps ... *No 1 Ballast 8 dia, 10 stroke D.A  
No 2 Boiler 7 dia, 10 stroke D.A*  
 Where do they pump from ... *No 1 Tank, Engin Room,  
mid aft Well,  
No 2 Sea, Engin Room Bilge-  
mid aft Well.*  
 No. of bilge injections *(1)* and sizes *5" dia*  
 Are they connected to air, or circulating pumps *circulating*  
 Is there a hand pump in the engine room *No*  
 Can it be worked by the main engines *No*  
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

**MAIN BOILERS.**

Number *(2)* Description *Cylindrical Tubular*  
 Made by *Amos & Smith*  
 When *July* 18*94* At *Hull*  
 Working pressure *65 lbs*  
 Tested by hydraulic pressure to *130 lbs*, Date *5 June 94*  
 Description of super-heating apparatus *None Steam Receiver*  
 Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *None*  
 Description and area of safety valves on each boiler ... *Adams Patent, two on  
each boiler 3 1/2 dia - 19.2 sq in.*  
 No. of square feet of fire-grate surface in each boiler *59 square feet*  
 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 *Cylindrical Vertical 3 rows W. tubes*  
 Where fixed *Strokehold*  
 Working pressure *45 lbs per sq inch*  
*made by Messrs Clarke Chapman & Son, Gateshead*

Tested by hydraulic pressure to *110 lbs reported*, Date *May 8<sup>th</sup> 94*  
 Description and area of safety valves *1 dead weight 3 1/2 dia - 8.2*  
 No. of square feet of fire grate *15 sq feet*

**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 ... *1 Kingston 3 Stop Valves  
rest all common 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 *W*  
 When were the stern tube, propeller, screw shaft, and all connections examined *in the dock  
28<sup>th</sup> May - 94*  
 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,*

*Amos & Smith* Manufacturer.  
*Albert Dock Groves*  
*Hull*

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood)

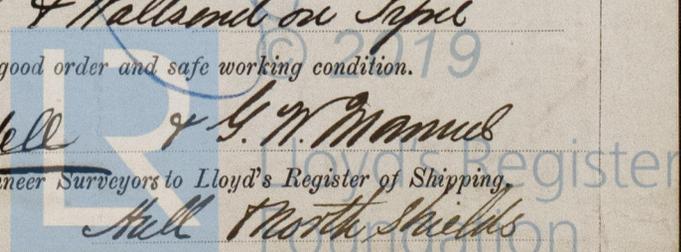
Screw (or Paddle) Steam Vessel *"Londams"* owned by *C. E. Stobart*  
 of the Port of *Cardiff* of *Hull* Tons Register, and *110* Registered Horse Power,  
 and that they have been carefully inspected and examined by *us* at *Hull & Wallsend on 1<sup>st</sup> June*  
 and found to be at this date, viz., *1<sup>st</sup> June & July* 18*94* in good order and safe working condition.

Amount of Fee for Survey *£ 3:0:0* Paid by *A. Heydell & G. W. Mansel*  
 (Travelling Expenses, if any, £ *0:5:0*) we *Appling* Engineer Surveyors to Lloyd's Register of Shipping,  
*24/1/74.* *Hull & North Shields*

Returned to Mr. Heydell of Hull £ *5:10:0* amount of his *of cargo on this vessel*  
*25/10/77. A. Heydell*

Report (if any) on Hull of Vessel. No. 12647

IRON 473 - 0391



It is found that these Engines and Boilers  
are fitted in accordance with the Committee  
Requirements and submitted that she is  
eligible to have the notification Lloyd's  
M.C. in the Register Book and a -  
Machiny certificate from 7<sup>th</sup> July 1877

M.D. 29.7.77



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