

21588 Iron

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*Rev 26/8/78*

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

Description *Compound*  
 Made by *M<sup>r</sup> Martin Samuelson*  
 When *Oct 1872* At *Hull*  
 Diameter of cylinders *24 3/8 & 48"* Length of stroke *30"*  
 No. of revolutions per minute *65*  
 Point of cut off \_\_\_\_\_  
 Diameter of screw shaft *7 5/8"*  
 Diameter of crank shaft journals *8"*  
 Diameter of screw, ~~or of paddle wheel~~ \_\_\_\_\_  
 Pitch of screw \_\_\_\_\_  
 No. of blades, *4* Total surface *37 feet*  
 No. of bilge pumps *two* and sizes *5" Dia 10" Stroke*  
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses - \_\_\_\_\_  
 No. of feed pumps *two* and sizes *5" Dia 10" Stroke*  
 What gauges are there attached to the engines and boilers ... *two water on boiler, one pressure & vacuum on engines in stoke hold, one each*  
 Description and size of Donkey Pumps ... *one upright for tank & bilge one upright*  
 Where do they pump from ..... *from sea through condenser to boiler and on deck*  
 No. of bilge injections *one* and sizes *5" Dia*  
 Are they connected to air, or circulating pumps *Condenser*  
 Is there a hand pump in the engine room *None*  
 Can it be worked by the main engines \_\_\_\_\_  
 Is there a deck hose of sufficient length to reach to any part of the vessel } *yes*

### MAIN BOILERS.

Number *one* Description *Steel Circular Tubular*  
 Made by *Messrs Hall Russell & Coy*  
 When *Aug 1878* At *Aberdeen*  
 Working pressure *65 lbs*  
 Tested by hydraulic pressure to *130 lbs*, Date *18.7.78*  
 Description of super-heating apparatus ..... *Vertical Domb*  
 Can each boiler be worked separately \_\_\_\_\_

Can the super-heater be shut off and the boilers worked separately } \_\_\_\_\_  
 Description and area of safety valves on each boiler ..... *Two spring load by 71 lb & Coy 28.38" area*  
 No. of square feet of fire-grate surface in each boiler } *45 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 *one round upright 5" 0" x 8" 0"*  
 Where fixed *on Deck*  
 Working pressure *50 lbs*

Tested by hydraulic pressure to \_\_\_\_\_, Date \_\_\_\_\_  
 Description and area of safety valves *one direct load 3.9 area*  
 No. of square feet of fire grate *12 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 ... } *Cocks and Valves*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ..... } *no. but have been fixed with glands and keys to unship when shut*  
 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 \_\_\_\_\_  
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock } \_\_\_\_\_  
 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*

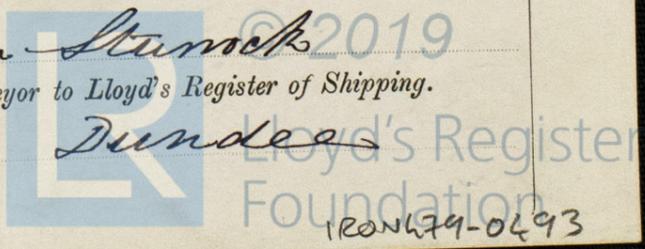
*Hall, Russell & Co. Manufacturers of Boiler*

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 "*Maria Louisa*" owned by *Messrs Adam & Coy* of the Port of *Aberdeen* of *554* Tons Register, and *90* Registered Horse Power, and that they have been carefully inspected and examined by me at *Aberdeen* and found to be at this date, viz., *10<sup>th</sup> August* 1878 in good order and safe working condition.

Amount of Fee for Survey ... .. £ 4 : 4 : 0  
 (Travelling Expenses, if any, £ 5 : 12 : 6)

*John Sturrock*  
 Engineer Surveyor to Lloyd's Register of Shipping.

*Has Received by me 22 August and sent to Dundee Surveyor J. W. Kettle*



IRON 679-0493

It is submitted that this  
case is eligible to have  
certif granted and  
Lloyds No. 8.78 & NB 78  
reco'ded.

Am 26/8/78



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