

21215 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 11/7/98

Description *2 Cylinder Compound Inverted S.C.*
 Made by *Messrs R. W. Hawthorn*
 When *June 1898* At *Newcastle on Tyne*
 Diameter of cylinders *32" x 62"* Length of stroke *42"*
 No. of revolutions per minute *60*
 Point of cut off *7/8th of stroke*
 Diameter of screw shaft *10 1/2"*
 Diameter of crank shaft journals *10 3/4"*
 Diameter of screw, ~~or of paddle wheel~~ *15 feet*
 Pitch of screw *14 to 18 feet*
 No. of blades, *(14)* Total surface *62 1/2 feet*
 No. of bilge pumps *(2)* and sizes *3 1/4" dia, 20" stroke*
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *(2)* and sizes *3 1/4" dia, 20" stroke*
 What gauges are there attached to the engines and boilers ...
1 Steam Eng Room
20 each boiler stokehold
1 vacuum, 1 compound
 Description and size of Donkey Pumps ...
"Ballast" 8" dia, 14" stroke S.A
"Water" 3 1/2" dia, 8" stroke S.A
 Where do they pump from ...
"Ballast" from Tanks, sea, and all compartments
"Water" from sea, Hotwell, Tanks
 No. of bilge injections *(1)* and sizes *4" dia*
 Are they connected to air, or circulating pumps *circulating*
 Is there a hand pump in the engine room *No Small Donkey to*
 Can it be worked by the main engines *use as hand pump*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes along with some piping.*

MAIN BOILERS.

Number *(2)* Description *Steel cylindrical vertical*
 Made by *R. W. Hawthorn*
 When *June 1898* At *St Peter's Newcastle*
 Working pressure *15 lbs valves set to 4 lbs*
 Tested by hydraulic pressure to *150 lbs*, Date *23. 5. 98*
 Description of super-heating apparatus *Superheater 1/4 in upright*
 Can each boiler be worked separately *Yes*
Except valves Boilers built of London Superior Steel

Can the super-heater be shut off and the boilers worked separately *No*
 Description and area of safety valves on each boiler ...
Two Spring Valves by R. W. Hawthorn
- 25 sq inches
 No. of square feet of fire-grate surface in each boiler *43.5 sq 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. *all except ones in holds*

DONKEY BOILER.

Description *Cylindrical vertical 3 cross tubes*
 Where fixed *Stokehold*
 Working pressure *57 lbs*
J. H. Wilson & Co Liverpool

Tested by hydraulic pressure to *100 lbs certificate*, Date *4. 5. 98*
 Description and area of safety valves *dead weight 3 3/8" - 8.8 sq inches*
 No. of square feet of fire grate *15.9 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 ... *2 King valves rest are 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*
R. W. Hawthorn Manufacturer.

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 *Now*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes. by master cocks*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Appears water tight and fitted with sluice door*
Safety valves eased 17 1/2 lbs
lifted 17 1/2 lbs
accumulated to 19

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 *"Mary Louise"* owned by *messrs Elliot & Grey & Dunford* of the Port of *LONDON* of *1207.24* Tons Register, and *200* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle & Low Walker on Tyne* and found to be at this date, viz., *June 24th* 1898 in good order and safe working condition.

Amount of Fee for Survey ... £ *15. 20. 0* Paid by *George W. Mansel*
 (Travelling Expenses, if any, £ *0. 0. 0*)
1000-1/9/76.

George W. Mansel
 Engineer Surveyor to Lloyd's Register of Shipping.
 North Shields

Engines & Boilers worked satisfactorily on trial, Boilers tight & after trial, Space between Boilers & Bulkhead 8 inches Port Newcastle No. 140-9

Dimensions of Engines and Boilers same as S. B. Standard at Rules 100 & 192. Working method.



This is one of the vessels fitted with
the steel boilers which were
approved by us Dec 4th 1877.
It is submitted that she is
eligible to have the
notification Lloyd's LC
recorded and a
certificate granted

Am 11/7/78



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