

21219 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Report (if any) on Hull of Vessel. Port *Sunderland*. No. *11976*

Description *Inverted Compound Surface Condensing*
Made by *Mr. G. Clark*
When *June 1878* At *Sunderland*
Diameter of cylinders *36* & *68* Length of stroke *42*
No. of revolutions per minute *56*
Point of cut off *from 12 to 38*
Diameter of screw shaft *11 3/8*
Diameter of crank shaft journals *11 3/8*
Diameter of screw, or of paddle wheel *14 6*
Pitch of screw *18 0*
No. of blades, *4* Total surface *53 sq. feet*
No. of bilge pumps *2* and sizes *4 1/2 x 21 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 *4 1/2 dia. x 21 stroke*
What gauges are there attached to the engines and boilers ... *1 steam gauge to each boiler and 1 common to both, 1 vacuum, 2 marked, double acting, large*
Description and size of Donkey Pumps ... *one 8 dia. x 10 stroke. Small one 4 x 6*
Where do they pump from ... *the large one from sea, tanks and bilges of engine room, aft well & fore hold. Small one from same places & hold well*
No. of bilge injections *one* and sizes *4 diameter*
Are they connected to air, or circulating pumps *to circulating pump*
Is there a hand pump in the engine room *no (small donkey can be used)*
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 (from iron pipe)*

MAIN BOILERS.

Number *Two* Description *Cylindrical & Multitubular*
Made by *Mr. G. Clark*
When *June 1878* At *Sunderland*
Working pressure *75 lbs per sq. inch*
Tested by hydraulic pressure to *150 lbs*, Date *March 26/78*
Description of super-heating apparatus *none*
Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately
Description and area of safety valves on each boiler *2 spring safety valves 4 1/2 dia. = 38 sq. ins. area*
No. of square feet of fire-grate surface in each boiler *53*
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 (except those in the holds when full)*

DONKEY

Description *Upright Cyl. with 4 Cross tubes*
Where fixed *in the stokehole*
Working pressure *60 lbs*

Tested by hydraulic pressure to *120 lbs*, Date *11 April 78*
Description and area of safety valves *2 spring 3 = 14 sq. ins. 1 Over & weight 2 = 3 = 17 area*
No. of square feet of fire grate *23*

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 ... *Stop 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 *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 *new (June 20/78)*
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*

F. W. Clark
W. J. Clark 22/6/78

Manufacturer. *Except of the Donkey Boiler*

I was present when steam was raised the Engines worked, and safety valves adjusted and tested, according to 2 lbs and closed at 72 lbs. May 3/78. W.A.

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 *"Memmuir"* owned by *Jas. Guthrie & W. McSaggart* of the Port of *London* of *1247* Tons Register, and *240* Registered Horse Power, and that they have been carefully inspected and examined by me at *Sunderland* and found to be at this date, viz., *June 26* 18 *78* in good order and safe working condition.

Amount of Fee for Survey *£ 12. 0. 0*

(Travelling Expenses, if any, £)

Certificate £ 0. 5. 0
£ 12. 5

Received 27/6/78

William Allison
Engineer Surveyor to Lloyd's Register of Shipping.

Sunderland

The machinery of this vessel is
in accordance with the Rules
It is submitted that she is
eligible to have a
machinery certificate
granted and Lloyd's
MC. 6.78 (Recorded)

Multon

1/7/78



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Foundation