

SHIP'S NAME *L. Wheatfield* 24014 *London*
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Inverted, Comp. Surface Condensing*
Made by *Palmers & Co. Ltd.*
When *June 1879* At *Newcastle*
Diameter of cylinder *32 x 62* Length of stroke *42*
No. of revolutions per minute *64*
Point of cut off *5/8*
Diameter of screw shaft *11 1/4*
Diameter of crank shaft journals *11 1/4*
Diameter of screw, or of paddle wheel *16 ft 3 in*
Pitch of screw *15 ft 3 to 16 ft 10 3/4*
No. of blades, *4* Total surface *63*
No. of bilge pumps *2* and sizes *4 1/2 x 2 1/2*
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 x 2 1/2*
What gauges are there attached to the engines and boilers ... *1 Steam & 1 vacuum in Engine room, 2 Steam in S.H., 3 Suctions to each ballast tank*
Description and size of Donkey Pumps ... *Boiler 4 x 8 do do 3 Suctions to each ballast tank*
Where do they pump from ... *2 S. 2 P. 2 C. in Engine spaces 2 Main H. 2 Fore H. 2 Tunnel Wells, Sea*
No. of bilge injections *1* and sizes *4 1/2*
Are they connected to air, or circulating pumps *yes*
Is there a hand pump in the engine room *yes*
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*
Three valves on E.R. bulkheads accessible

MAIN BOILERS.

Number *Two* Description *Cylindrical tubular*
Made by *Palmers & Co. Ltd.*
When *June 1879* At *Newcastle*
Working pressure *80 lb*
Tested by hydraulic pressure to *160 lb*, Date *15.5.79*
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 *no Superheater*
Description and area of safety valves on each boiler ... *2 Spring valves 4 1/2 dia = 32" area*
No. of square feet of fire-grate surface in each boiler *52.25*
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 *Upright Cylindrical*
Where fixed *Stokehold*
Working pressure *80 lb*

Tested by hydraulic pressure to *160 lb*, Date *16.5.79*
Description and area of safety valves *2 Spring 2 3/4 dia = 11.8 area*
No. of square feet of fire grate *19 ft*

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 Screw valves 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 *at line*
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 *now*
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*

William Giff Manufacturer.

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 *Wheatfield* owned by *Steuering & Pattison* of the Port of *London* of *1277.63* Tons Register, and *200* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle* and found to be at this date, viz., *June 11th 1879* in good order and safe working condition.

Amount of Fee for Survey ... £ *10 0 0* Paid by *Reddy*
(Travelling Expenses, if any, £ *0 5 0*) *9/7/79*

John Brockat
Engineer Surveyor to Lloyd's Register of Shipping.

Insuring 7 Boilers herewith attached.

The engine and boiler of this vessel
are made and fitted in accordance with
the rules submitted that she is eligible
to have Lloyd's M.C. and a
machinery certificate from 11th June.

1879 - MD 14.7.79



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Foundation