

LOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Inverted Com. Surface Condensing*
 Made by *Messrs Black Hawthorn*
 When *Nov 1878* At *Newcastle*
 Diameter of cylinder *30" x 56"* Length of stroke *39"*
 No. of revolutions per minute *about 65*
 Point of cut off *$\frac{9}{16}$*
 Diameter of screw shaft *10"*
 Diameter of crank shaft journals *10"*
 Diameter of screw, or of paddle wheel *13 ft 10 in*
 Pitch of screw *16 ft 6 in*
 No. of blades, *4* Total surface *58 $\frac{1}{2}$ sq ft*
 No. of bilge pumps *2* and sizes *1 $\frac{1}{2}$ x 19 $\frac{1}{2}$*
 Do they pump from each compartment *yes*

all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *2* and sizes *3 $\frac{3}{4}$ " x 19 $\frac{1}{2}$ "*
 What gauges are there attached to the engines and boilers ... *2 Steam & 1 Vacuum in Engine Room, 1 Steam in S.H. Ballast 8" x 10" & acting*
 Description and size of Donkey Pumps ... *Feed 3 $\frac{1}{2}$ x 6" Main & Fore tanks, Sea, Engine space, Fore hold, Aft hold, both in tunnels.*
 Where do they pump from
 No. of bilge injections *1* and sizes *1 $\frac{1}{2}$ " diam*
 Are they connected to air, or circulating pumps *air*
 Is there a hand pump in the engine room *no*
 Can it be worked by the main engines *Donkey can be worked by hand.*
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

MAIN BOILERS.

Number *Two* Description *Cy. Tubular*
 Made by *Messrs Black Hawthorn & Co*
 When *Nov 1878* At *Newcastle*
 Working pressure *75 lb*
 Tested by hydraulic pressure to *150 lb*, Date *4.10.78*
 Description of super-heating apparatus *Receivers partially in uptake*
 Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately *no*
 Description and area of safety valves on each boiler *2 Spring valves 3 $\frac{5}{8}$ " diam = 20 $\frac{1}{2}$ " area*
 No. of square feet of fire-grate surface in each boiler *38 sq ft*
 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 pump connection with the machinery accessible at all times. *yes*

DONKEY BOILER.

Description *Upright Cy Cylindrical*
 Where fixed *Stokehold*
 Working pressure *50 lb*

Tested by hydraulic pressure to *100 lb*, Date *25.9.78*
 Description and area of safety valves *1 dead weight 3 $\frac{3}{4}$ " diam*
 No. of square feet of fire grate *20 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 ... *1 Spring valve and 2 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*
Black Hawthorn & Co 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*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *yes*

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

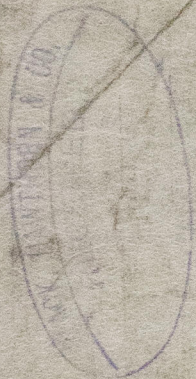
Screw (or Paddle) Steam Vessel *Supplicich* owned by *New Angier & Co*
 of the Port of *London* of *911.89* Tons Register, and *135* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Newcastle*
 and found to be at this date, viz., *5th November 1878* in good order and safe working condition.

Amount of Fee for Survey ... £6 : 15 : 0 *Reddy*
 (Travelling Expenses, if any, £0 : 5 : 0) *W. Young*
7/11/78

John Knekat
 Engineer Surveyor to Lloyd's Register of Shipping.
North Shields

This vessel is eligible to have
a Machinery Certificate and
the notation Lloyd's M.C. 11/78
recorded against her
name in the Register
Book. 12/11/78

MD



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Foundation