

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE

11034 Iron Ship

The following is a true Account of the Particulars of the Machinery and Boilers:—

ENGINES.—Here state description of Engines, whether Direct Acting or Geared, Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

ENGINES, maker of *Black Hawthorn & Co*
 „ age of *new*
 „ last time taken out
 „ present condition *Good*
 Diameter of Cylinders *32 & 60"*
 Length of stroke *30-36*
 No. per minute of Engines *68*
 „ of Screw *68*
 Estimated power *150*
 Effective power *600*
 Diameter of Screw (or Paddle Wheels) *14 feet*
 Pitch of Screw *14 do*
 No. of Blades (or Floats) *four*
 Description of Screw (or Floats) *ordinary loose blades*
 Holding down Bolts, size *1 1/2*
 „ present condition *Good*

Bilge Pumps, No. (*two*) and size *4 1/2*
 Feed „ No. (*two*) and size *4 1/2*
 Spare gear, if usual quantity on board Vessel *yes*
 Fuel, where stowed *alongside of Engine & Boilers*
 „ space between Coal Bunkers and Boilers *6" & 15" -*
 „ for what quantity is space provided *2,400 tons*
 Donkey Engine and Boiler *yes*
 „ if fitted in Engine Room or on Deck *Engine Room*
 „ can pump be worked by hand *yes*
 „ size of pump (*4"*) and stroke *10"*
 „ is hose of sufficient length to reach every part of the Vessel *yes*
 No. (*one*) and continuation of hand pumps, if fitted in Engine Room *yes*

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired athwartships, or from force, or after end of Boiler, &c.

*Low Multi-tubular Boilers three furnaces in each no superheating
 force from forward*

BOILER, maker of *Black Hawthorn & Co*
 „ age of *new*
 „ when last taken out *4*
 „ present condition *Good*
 „ working pressure *65 lbs*
 No. of surface Blow off Cocks to each Boiler *one*

Can each Boiler be used separately *yes*
 What clear space between top of Boiler and woodwork *all clear over top*
 What clear space between Funnel and woodwork *3 feet*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *120 ft* diameter *9"* Tunnel, thickness of plating *1/4* height *8 1/2 ft*
 width *3 1/2* if water-tight door on Engine Bulkhead. *yes*

Port *South Shields* 16th day of *June* 1873

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel *Virginia Schilze* belonging to *LONDON* whereof *Capt Anderson* is Master, *24423* Tons Register, and *150* H.P. have been carefully inspected and examined by *us* at *South Shields* and *we* found the same, at this date, in good order and safe working condition.

John Reardon & Co
South Shields

Marine Engineers.

IRON 453-0156