

12390 Iron

## LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER'S CERTIFICATE.

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.

*Surface condensing direct acting. 2 inverted Cylinders*

ENGINES, maker of *Palmer Bros. & Co*  
 „ age of *4 Years. 9 Months*  
 „ last time taken out *converted 1872*  
 „ present condition *Good*  
 Diameter of Cylinder *38 inches.*  
 Length of stroke *30 inches*  
 No. per minute of Engines *65 Revolutions*  
 „ of Screw *ditto ditto*  
 Estimated power *90 H.P.*  
 Effective power *200 H.P.*  
 Diameter of Screw (or Paddle Wheels) *15 Feet*  
 Pitch of Screw *17 Feet*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats) *Solid*  
 Holding down Bolts, size *3 inches*  
 „ present condition

Bilge Pumps, No. ( *2* ) and size *4 1/2 inches*  
 Feed „ No. ( *2* ) and size *4 1/2 inches*  
 Spare gear, if usual quantity on board Vessel } *Usual Quantity*  
 Fuel, where stowed *Fore & aft Bunkers*  
 „ space between Coal Bunkers and Boilers } *6 inches*  
 „ for what quantity is space provided *100 Tons*  
 Donkey Engine and Boiler *Boiler on Deck*  
 „ if fitted in Engine Room or on Deck } *Engine in Engine Room*  
 „ can pump be worked by hand *Yes*  
 „ size of pump ( *6 in* ) and stroke *12 inches*  
 „ is hose of sufficient length to reach every part of the Vessel } *Yes*  
 No. ( ) and continuation of hand pumps, if fitted in Engine Room }

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 fore, or after end of Boiler, &c.

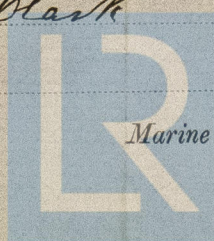
*One Tubular Boiler 4 Fires. Fired from fore end,*

BOILER, maker of *comp Sunderland North Eastern Marine Engineers*  
 „ age of *15 Months*  
 „ when last taken out  
 „ present condition *Good*  
 „ working pressure *30 lbs*  
 No. of surface Blow off Cocks to each Boiler } *1*  
 Can each Boiler be used separately  
 What clear space between top of Boiler and woodwork } *Iron Casing*  
 What clear space between Funnel and woodwork } *4 Feet*  
 Are Engine and Boiler Keelsons well connected fore and aft } *Yes*  
 SCREW SHAFT length *28 feet* diameter *9 inches* Tunnel thickness of plating width if water-tight door on Engine Bulkhead.

Port *Sunderland* 24 day of *January* 1874

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *William Hunter* belonging to *London* whereof *William Jones* is Master, Tons Register, and *90* H.P. have been carefully inspected and examined by me at *Sunderland* and I found the same, at this date, in good order and safe working condition.

*R. P. Black*



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Lloyd's Register  
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IRON456-0298