

10146 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.

*Inverted. Direct Acting Compound Surface Condensing  
Screw Engines 2 Cylinders*

ENGINES, maker of *P. M. Hawthorn*  
 „ age of *New April 1872*  
 „ last time taken out *New*  
 „ present condition *New*  
 Diameter of Cylinder *High Press 29 Low Press 50*  
 Length of stroke *36*  
 No. per minute of Engines *60*  
 „ of Screw *60*  
 Estimated power *140*  
 Effective power *700*  
 Diameter of Screw (or Paddle Wheels) *15 ft*  
 Pitch of Screw *14 to 18 st.*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats) *Right Hand Screw with 4 blades*  
 Holding down Bolts, size *3 dia*  
 „ present condition *New*

Bilge Pumps, No. ( *2* ) and size *5 dia x 15 Stroke*  
 Feed „ No. ( *2* ) and size *4 1/2 x 18 do.*  
 Spare gear, if usual quantity on board Vessel *Yes*  
 Fuel, where stowed *Bunkers Sides of Engines & Boilers*  
 „ space between Coal Bunkers and Boilers *10*  
 „ for what quantity is space provided *250 Tons*  
 Donkey Engine and Boiler *1 Water Ballast & 1 Fed donkey*  
 „ if fitted in Engine Room or on Deck *Donkeys in Eng. Room.*  
 „ can pump be worked by hand *Yes*  
 „ size of pump *8 1/2 dia 4 Fed* and stroke *11 1/2 Water Ballast*  
 „ is hose of sufficient length to reach every part of the Vessel *Yes*  
 No. ( ) and continuation of hand pumps, if fitted in Engine Room *None*

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.

*3 Cylindrical Multitubular Boilers 2 furnaces in each fitted with  
Superheating Apparatus of fore end of Boilers.*

BOILER, maker of *P. M. Hawthorn*  
 „ age of *New April 1872*  
 „ when last taken out *Never*  
 „ present condition *New*  
 „ working pressure *35 lbs*  
 No. of surface Blow off Cocks to each Boiler *1*

Can each Boiler be used separately *Yes*  
 What clear space between top of Boiler and woodwork *5 ft*  
 What clear space between Funnel and woodwork *4-3*  
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *98.6* diameter *9 1/2* Tunnel, thickness of plating *1/4* height *5.6*  
 width *3.9* if water-tight door on Engine Bulkhead. *Yes.*

Port *Newcastle* day of *May* 1872

*M* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Earl of Rosdale* belonging to *Newcastle* whereof *J. P. Wright* is Master, *989.29* Tons Register, and *140* H.P. have been carefully inspected and examined by *North Shields* and *42* found the same, at this date, in good order and safe working condition.

*P. M. Hawthorn*  
 (Marine Engineers.)

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 Foundation

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