

12363Ln

## 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.

*Direct Acting Horizontal Condensing  
Four Cylinders driving twin screws*

ENGINES, maker of *Heppa & Co.*  
 „ age of *new*  
 „ last time taken out „  
 „ present condition „  
 Diameter of Cylinder *12 1/2 ins.*  
 Length of stroke *12 1/2 ins.*  
 No. per minute of Engines *95*  
 „ of Screw *95*  
 Estimated power *20*  
 Effective power *100*  
 Diameter of Screw *(or Paddle Wheel)* *5' 3"*  
 Pitch of Screw *10 ft.*  
 No. of Blades *(or Floats)* *3*  
 Description of Screw *(or Floats)* *Common*  
 Holding down Bolts, size *1 1/8 ins.*  
 „ present condition *new*

Bilge Pumps, No. ( *1* ) and size *2 1/2 ins.*  
 Feed „ No. ( *1* ) and size *5'*  
 Spare gear, if usual quantity on board Vessel *usual*  
 Fuel, where stowed *Side Mumps*  
 „ space between Coal Bunkers and Boilers *6 inches*  
 „ for what quantity is space provided *30 tons*  
 Donkey Engine and Boiler *one*  
 „ if fitted in Engine Room or on Deck *Engine Room*  
 „ can pump be worked by hand *yes*  
 „ size of pump ( *3* ) and stroke *6 ins.*  
 „ is hose of sufficient length to reach every part of the Vessel *yes*  
 No. ( *1* ) and continuation of hand pumps, if fitted in Engine Room *movable*

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.

*Multitubular Boiler with 2 furnaces fired  
from after end*

BOILER, maker of *Elkington*  
 „ age of *new*  
 „ when last taken out „  
 „ present condition „  
 „ working pressure *40 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 *3 feet*  
 What clear space between Funnel and woodwork *3 feet*  
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

*2* SCREW SHAFT length *24 ft.* diameter *3 1/4 ins.* Tunnel thickness of plating *1/4 ins.* height *1 ft. 6 ins.*  
 width *3 ft.* if water-tight door on Engine Bulkhead. *yes*

*Port South Shields 31 day of January 1874*

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron *(or Wood)*  
*Twin Screw (or Paddle)* Steam Vessel *Magdalena Vicenta* belonging to *Bilbao*  
 whereof *G. de Huelva* is Master, *95* Tons Register, and *20* H.P. have been  
 carefully inspected and examined by *us* at *Port South Shields* and *we* found the  
 same, at this date, in good order and safe working condition.

*Heppa & Co.*  
*South Shields*  
 Marine Engineers.  
 Lloyd's Register  
 Foundation  
 IRON508-0118