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# 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.

*Compound High & Low pressure. Direct acting, inverted  
2 Cylinders - surface Condenser*

ENGINES, maker of *A. Mathew & Co. London*  
 „ age of *New*  
 „ last time taken out  
 „ present condition *good*  
 Diameter of Cylinders *24 & 45 inches*  
 Length of stroke *30 inches*  
 No. per minute of Engines *65*  
 „ of Screw  
 Estimated power *85 HP*  
 Effective power  
 Diameter of Screw (or Paddle Wheels) *12 1/2 feet*  
 Pitch of Screw *16 feet*  
 No. of Blades (or Floats)  
 Description of Screw (or Floats) *Last Iron & Bladed*  
 Holding down Bolts, size *2 1/4 inches*  
 „ present condition *New*

Bilge Pumps, No. ( *2* ) and size *4 inches*  
 Feed „ No. ( *2* ) and size *3 1/2*  
 Spare gear, if usual quantity on board Vessel } *yes*  
 Fuel, where stowed *Bunkers*  
 „ space between Coal Bunkers and Boilers } *9 inches*  
 „ for what quantity is space provided *100 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 ( *3 1/2* ) and stroke *8 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 } *Hand pump to Donkey*

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 12 1/4 feet diam<sup>r</sup>. 10 feet long, 184, 3" tubes each 6.9 long, 3 furnaces on 3rd deck  
fired from after end of Boiler*

BOILER, maker of *Adams & Co. Hyde*  
 „ age of *New*  
 „ when last taken out  
 „ present condition *good*  
 „ working pressure *65 lbs*  
 No. of surface Blow off Cocks to each Boiler } *1 Surface & 2 Wre off*

Can each Boiler be used separately  
 What clear space between top of Boiler and woodwork } *9 feet*  
 What clear space between Funnel and woodwork } *No wood work all round*  
 Are Engine and Boiler Keelsons well connected fore and aft } *yes*

SCREW SHAFT length *63 feet* diameter *8 inches* Tunnel, thickness of plating *1/4* height  
 width if water-tight door on Engine Bulkhead. *yes*

Port *Amherstburg*, 28 day of *September* 1872

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Mabel*" belonging to *Henry Ellis & Sons* whereof *Wilder* is Master, *488.39* Tons Register, and *85* H.P. have been carefully inspected and examined by *us* at *Amherstburg* and *we* found the same, at this date, in good order and safe working condition.

*John Scott & Sons*  
*Amherstburg*  
 Marine Engineers.