

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 & Son Eschew*

„ 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 *1 Bunker*

„ 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 force, or after end of Boiler, &c.

*One 12 1/4 feet diam^r. 10 feet long. 184.3" tubes each 6.9 long. 3 furnaces on 3 ft. diam^r
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 Blow 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 here*

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.