

# 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 screw engine with surface Condenser. Two cylinders*

ENGINES, maker of *Victoria Dock Engine Works Co*  
 „ age of *new*  
 „ last time taken out  
 „ present condition *new*  
 Diameter of Cylinder *38 inches*  
 Length of stroke *38 inches*  
 No. per minute of Engines *65*  
 „ of Screw *65*  
 Estimated power *90*  
 Effective power *400*  
 Diameter of Screw (or Paddle Wheels) *11 feet*  
 Pitch of Screw *15 feet*  
 No. of Blades (or Floats) *3*  
 Description of Screw (or Floats) *Common screw*  
 Holding down Bolts, size *2 ins*  
 „ present condition *good*

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 *yes*  
 Fuel, where stowed *in Side Bunkers*  
 „ space between Coal Bunkers and Boilers *9 inches*  
 „ for what quantity is space provided *about 90 tons*  
 Donkey Engine and Boiler  
 „ if fitted in Engine Room or on Deck *Engine Room*  
 „ can pump be worked by hand *yes*  
 „ size of pump ( *4 1/2* ) and stroke *10 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.

*Two cylindrical & multitubular Boilers, with two furnaces in each boiler, with one Annular Super heater, both boilers fired from after end of the ship*

BOILER, maker of *Victoria Dock Engine Works Co*  
 „ age of *new*  
 „ when last taken out  
 „ present condition *good*  
 „ working pressure *35 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 *6 feet*  
 What clear space between Funnel and woodwork *2 feet*  
 Are Engine and Boiler Keelsons well connected fore and aft *Keel Connected*

SCREW SHAFT length *60 feet* diameter *7 1/2* Tunnel, thickness of plating *3/16* height *4 feet*  
 width *3 feet* if water-tight door on Engine Bulkhead.

Port *London* 14<sup>th</sup> day of *Oct* 1872

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Byhope* belonging to *Messrs John Hume & Son* whereof *Mullins* is Master, *475* Tons Register, and *90* H.P. have been carefully inspected and examined by *me* at *Victoria Dock* and *I* found the same, at this date, in good order and safe working condition.

*Victoria Dock Engine Works Co.*  
*C. Hume*





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