

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, Inverted Cylinders Two in No.*

ENGINES, maker of *Blackwood & Gordon*  
 „ age of *1869*  
 „ last time taken out  
 „ present condition *Good*  
 Diameter of Cylinder *28 and 48 inches*  
 Length of stroke *3 feet*  
 No. per minute of Engines *60 Rev*  
 „ of Screw *60*  
 Estimated power *120 H.P.*  
 Effective power *Not known*  
 Diameter of Screw (or Paddle Wheels) *12 feet*  
 Pitch of Screw *18 inches*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats) *Griffiths*  
 Holding down Bolts, size *1 3/4 inches*  
 „ present condition *Good*

Bilge Pumps, No. ( *2* ) and size *3 inches dia*  
 Feed „ No. ( *2* ) and size *3*  
 Spare gear, if usual quantity on board Vessel *Screw Shaft and Propeller*  
 Fuel, where stowed *Athwart ship between Engines & Boilers*  
 „ space between Coal Bunkers and Boilers *Stokehole*  
 „ for what quantity is space provided *180 Tons*  
 Donkey Engine and Boiler *Yes*  
 „ if fitted in Engine Room or on Deck *Engine Room*  
 „ can pump be worked by hand *No*  
 „ size of pump *5 1/2* and stroke *8 inches*  
 „ 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 *Deck*

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.

*Circular, Two, Tubular. Four furnaces. No superheating Apparatus*  
*Fired from Fore & Aft and from after end of Boiler*

BOILER, maker of *Blackwood & Gordon*  
 „ age of *New*  
 „ when last taken out  
 „ present condition *Good*  
 „ working pressure *65 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 *8 feet*  
 What clear space between Funnel and woodwork *2 feet 6 inches*  
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *12 feet* diameter *11 inches* Funnel thickness of plating *No* height  
 width if water-tight door on Engine Bulkhead *Yes*

Port *Hong Kong* *13<sup>th</sup>* day of *August* 18 *78*

*L* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Atypatrick* belonging to *Puang* whereof *Humphreys* is Master, *1048* Tons Register, and *120* H.P. have been carefully inspected and examined by *me* at *Kowloon Dock* and I found the same, at this date, in good order and safe working condition.

*D. P. Off*  
 Acting Inspector of Machinery &c.  
 Marine Engineers.  
 Lloyd's Register Foundation



Submitted that this vessel  
is eligible to remain as cleared

MD 25.9.72



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