

## 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.

*Two Direct Acting Inverted Cylinders*

ENGINES, maker of *Robt. Stephenson & Co*  
 „ age of *Seven years*  
 „ last time taken out *May 1872*  
 „ present condition *Good*  
 Diameter of Cylinder *35 inches*  
 Length of stroke *2 ft. 6 in.*  
 No. per minute of Engines *65*  
 „ of Screw *65*  
 Estimated power *90 horse*  
 Effective power *—*  
 Diameter of Screw (or Paddle Wheels) *11 ft.*  
 Pitch of Screw *16 ft.*  
 No. of Blades (or Floats) *3*  
 Description of Screw (or Floats) *Common right handed*  
 Holding down Bolts, size *2" diameter*  
 „ present condition *Good*

Bilge Pumps, No. ( *2* ) and size *Each 4 1/4 dia. x 13" stroke*  
 Feed „ No. ( *2* ) and size *Each 4 1/4 dia. x 13" stroke*  
 Spare gear, if usual quantity on board Vessel *as usual*  
 Fuel, where stowed *on each side of boiler forward of stokehold*  
 „ space between Coal Bunkers *Port side 12 inches; starboard side 2' 6" forward 8 ft.*  
 „ for what quantity is space provided *90 tons*  
 Donkey Engine and Boiler *One*  
 „ if fitted in Engine Room or on Deck *In engine room*  
 „ can pump be worked by hand *Yes*  
 „ size of pump ( ) and stroke *13" stroke*  
 „ 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.

*One Circular tubular, with 3 Furnaces. No super heater; fired from fore end.*

BOILER, maker of *Victoria Graving Dock Co. Ltd. for Sons Brothers*  
 „ age of *new 1872*  
 „ when last taken out *—*  
 „ present condition *Good*  
 „ working pressure *35 lb to square inch*  
 No. of surface Blow off Cocks to each Boiler *Two*  
 SCREW SHAFT length *14 ft* diameter *8 inches*  
 „ width *—* if water-tight door on Engine Bulkhead.

Can each Boiler be used separately *—*  
 What clear space between top of Boiler and woodwork *6 ft*  
 What clear space between Funnel and woodwork *1' 9" each side athwartships; 2' 3" aft x 4 ft forward*  
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*  
 Engines at *after* part of ship

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

*WE* hereby certify, that the whole of the above Machinery and Boilers of the Iron ( ~~or Wood~~ ) Screw ( ~~or Paddle~~ ) Steam Vessel *"J. M. Strachan"* belonging to *London* whereof *Scott* is Master, *76* Tons Register, and *90* H.P. have been carefully inspected and examined by *us* at *Victoria Graving Dock* and *WE* found the same, at this date, in good order and safe working condition.

*Sons Brothers*  
*Victoria Graving Dock*  
 Marine Engineers.