

# 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.

*Engines Direct acting inverted Vertical 2 Cylinders*

ENGINES, maker of *J. Nephew*  
 „ age of *Built 1865*  
 „ last time taken out  
 „ present condition *Good*  
 Diameter of Cylinder *36 in*  
 Length of stroke *30*  
 No. per minute of Engines *65*  
 „ of Screw  
 Estimated power *90 HP*  
 Effective power *300*  
 Diameter of Screw (or Paddle Wheels) *12 6*  
 Pitch of Screw *15*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats)  
 Holding down Bolts, size  
 „ present condition *Good*

Bilge Pumps, No. ( *2* ) and size *4 1/8" dia*  
 Feed „ No. ( *2* ) and size *3 7/8"*  
 Spare gear, if usual quantity on board Vessel  
 Fuel, where stowed *in Bunkers*  
 „ space between Coal Bunkers and Boilers *15 on Starboard Port sides*  
 „ for what quantity is space provided *90 Tons*  
 Donkey Engine and Boiler *Donkey Engine but no Boiler*  
 „ if fitted in Engine Room or on Deck *in Engine Room*  
 „ can pump be worked by hand *Yes*  
 „ size of pump (*4 1/2*) and stroke *8"*  
 „ is hose of sufficient length to reach every part of the Vessel  
 No. ( ) and continuation of hand pumps, if fitted in Engine Room *none*  
*1 Ballast Donkey Engine 8" dia. x 14" Stroke connected to Bilges*

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.

*Boiler Circular Multitubular 3 Furnaces no superheating apparatus  
 fired from fore end of Boiler*

BOILER, maker of *Victoria Engineering Dock Co*  
 „ age of  
 „ when last taken out  
 „ present condition *Good*  
 „ working pressure *35 lbs per square inch*  
 No. of surface Blow off Cocks to each Boiler *2 Surface cocks*

Can each Boiler be used separately  
 What clear space between top of Boiler and woodwork *4 ft 6*  
 What clear space between Funnel and woodwork *3. 6*  
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *14 feet long* diameter *7 3/4* None Tunnel thickness of plating height  
 width if water-tight door on Engine Bulkhead. *None*

Port *London* *14<sup>th</sup>* day of *January* 18 *75*

*I* 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 *Stephenson, Clarke & Co London* whereof *I Brown* is Master, *578* Tons Register, and *90* H.P. have been carefully inspected and examined by *me* at *Commercial Dock* and have found the same, at this date, in good order and safe working condition.

*57 Gracechurch St*  
*15 January 1875*  
*[Signature]*