

## 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.

*A pair of direct acting, inverted cylinder, High pressure  
Surface Condensing, Engines with two cylinders.*

ENGINES, maker of *Hall Russell & Co*  
 „ age of *New in May 1874*  
 „ last time taken out  
 „ present condition *Good*  
 Diameter of Cylinder *15 inches*  
 Length of stroke *15 inches*  
 No. per minute of Engines *90*  
 „ of Screw *90*  
 Estimated power *25 H.P.*  
 Effective power *100*  
 Diameter of Screw (or Paddle Wheels) *7 feet*  
 Pitch of Screw *9 feet 3 in*  
 No. of Blades (or Floats) *Four*  
 Description of Screw (or Floats) *Common*  
 Holding down Bolts, size *Ample*  
 „ present condition *Good*

Bilge Pumps, No. ( *1* ) and size *2 1/2 in*  
 Feed „ No. ( *1* ) and size *2 1/2 in*  
 Spare gear, if usual quantity on }  
 board Vessel } *Yes*  
 Fuel, where stowed *In bunkers*  
 „ space between Coal Bunkers }  
 and Boilers } *Ample*  
 „ for what quantity is space provided *10 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 ( ) and stroke *2 1/4 in 3 1/4 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 } *No*

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 cylindrical tubular boiler with two furnaces  
large steam chest in uptake and fired from after end.*

BOILER, maker of *Hall Russell & Co*  
 „ age of *New in May 1874*  
 „ 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 *Only one boiler*  
 What clear space between top of }  
 Boiler and woodwork } *Ample*  
 What clear space between Funnel }  
 and woodwork } *Ample*  
 Are Engine and Boiler Keelsons }  
 well connected fore and aft } *Yes*

SCREW SHAFT length *about 20 feet* diameter *3 1/4 inches* Funnel thickness of plating *No tunnel* height  
 width *if water-tight door on Engine Bulkhead.*

Port of *Aberdeen* <sup>the</sup> day of *May* 1875

*We* hereby certify, that the whole of the above Machinery and Boilers of the ~~Iron~~ (~~or~~ Wood)  
 Screw (or Paddle) Steam Vessel "*Volant*" belonging to *Aberdeen*  
 whereof *Geo. Lambie* is Master, *102* Tons Register, and *25 H.P.* have been  
 carefully inspected and examined by *us* at *Aberdeen* and *we* found the  
 same, at this date, in good order and safe working condition.

*Hall Russell & Co*



Marine Engineers.

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Foundation

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