

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, Compound, Surface Condensing Engines, with two cylinders.

<p>ENGINEERS, makers of <i>Gilbert Hooper</i></p> <p>age of <i>new</i></p> <p>last time taken out _____</p> <p>present condition _____</p> <p>Diameter of Cylinder <i>31 inches & 58 inches</i></p> <p>Length of stroke <i>36 inches</i></p> <p>No. per minute of Engines <i>60</i></p> <p>of Screw <i>60</i></p> <p>Estimated power <i>130 Nominal 150</i></p> <p>Effective power <i>600 Indicated</i></p> <p>Diameter of Screw (or Paddle Wheels) <i>14 ft 6 in</i></p> <p>Pitch of Screw <i>17 feet</i></p> <p>No. of Blades (or Floats) <i>4</i></p> <p>Description of Screw (or Floats) <i>Solid cast iron</i></p> <p>Holding down Bolts, size <i>2 1/2 inches</i></p> <p>present condition <i>new</i></p>	<p>Bilge Pumps, No. (<i>2</i>) and size <i>5 3/8</i></p> <p>Feed „ No. (<i>2</i>) and size <i>5 3/8</i></p> <p>Spare gear, if usual quantity on board Vessel <i>yes</i></p> <p>Fuel, where stowed <i>Side Bunkers</i></p> <p>space between Coal Bunkers and Boilers <i>6 inches</i></p> <p>for what quantity is space provided <i>300 tons</i></p> <p>Donkey Engine and Boiler <i>yes</i></p> <p>if fitted in Engine Room or on Deck <i>Engine below Bulkhead</i></p> <p>can pump be worked by hand <i>yes</i></p> <p>size of pump (<i>5</i>) and stroke <i>8 inches</i></p> <p>is hose of sufficient length to reach every part of the Vessel <i>yes</i></p> <p>No. (<i>1</i>) and continuation of hand pumps, if fitted in Engine Room <i>yes</i></p>
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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.

2 High pressure tubular Boilers, with three furnaces in each; fired from after ends of Boiler.

<p>Maker of <i>Gilbert Hooper</i></p> <p>age <i>new</i></p> <p>out _____</p> <p><i>65 lbs.</i></p> <p>Cocks to <i>1</i></p> <p><i>22 1/8</i> diameter <i>9 1/4</i> Tunnel, thickness of plating <i>5/16</i> height <i>6' 0"</i></p> <p>if water-tight door on Engine Bulkhead. <i>yes</i></p>	<p>Can each Boiler be used separately <i>yes</i></p> <p>What clear space between top of Boiler and woodwork <i>1' 6"</i></p> <p>What clear space between Funnel and woodwork <i>2' 0"</i></p> <p>Are Engine and Boiler Keelsons well connected fore and aft <i>yes</i></p>
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Port *Hull* *12th* day of *April* 1872

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) *Envooy* belonging to *William Liddell* now is Master, *1031 3/10* Tons Register, and *130* H.P. have been by us at *Hull* and we found the and safe working condition.

Gilbert Hooper
Reptime Iron Works, Hull.
Marine Engineers.