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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.

Compound direct acting inverted with two cylinders

ENGINES, maker of	<i>Blackwood & Gordon</i>	Bilge Pumps, No. (<i>Two</i>) and size	<i>3" Diameter</i>
„ age of	<i>New</i>	Feed „ No. (<i>Two</i>) and size	<i>3" do</i>
„ last time taken out		Spare gear, if usual quantity on board Vessel	<i>Yes</i>
„ present condition	<i>Good</i>	Fuel, where stowed	<i>Athwartship bunkers forward of Engines</i>
Diameter of Cylinder	<i>24" High Press 42" Low Pressure</i>	„ space between Coal Bunkers and Boilers	<i>no Bunkers next Boilers</i>
Length of stroke	<i>27"</i>	„ for what quantity is space provided	<i>50 Tons</i>
No. per minute of Engines	<i>80</i>	Donkey Engine and Boiler	<i>Yes</i>
„ of Screw	<i>80</i>	„ if Fitted in Engine Room or on Deck	<i>in Engine room</i>
Estimated power	<i>100</i>	„ can pump be worked by hand	<i>no</i>
Effective power	<i>400</i>	„ size of pump (<i>3"</i>) and stroke	<i>6"</i>
Diameter of Screw (or Paddle Wheel)	<i>11" 0"</i>	„ is hose of sufficient length to reach every part of the Vessel	<i>Yes</i>
Pitch of Screw	<i>16" 0"</i>	No. (<i>one</i>) and condition of hand pumps, if fitted in Engine Room	<i>in Engine room</i>
No. of Blades (or Floats)	<i>Three</i>		
Description of Screw (or Floats)	<i>Common</i>		
Holding down Bolts, size	<i>1 1/2"</i>		
„ present condition	<i>Good</i>		

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.

Two Round Horizontal Tubular Boilers with two furnaces in each no Superheating Apparatus, fired from forward end

BOILER, maker of	<i>Blackwood and Gordon</i>	Can each Boiler be used separately	<i>Yes</i>
„ age of	<i>New</i>	What clear space between top of Boiler and woodwork	<i>36"</i>
„ when last taken out		What clear space between Funnel and woodwork	<i>12"</i>
„ present condition	<i>Good</i>	Are Engine and Boiler Keelsons well connected fore and aft	<i>Yes</i>
„ working pressure	<i>65 lbs</i>		
No. of surface Blow off Cocks to each Boiler	<i>1 Surface & 1 Bottom Blow off</i>		
SCREW SHAFT length	<i>54 feet</i>	diameter	<i>7 1/4"</i>
width	<i>3' 6"</i>	if water-tight door on Engine Bulkhead	<i>yes</i>
		Tunnel, thickness of plating	<i>3/16</i>
		height	<i>3' 6"</i>

Port of *Port Glasgow* 14th day of *August* 1872

hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Taknam*" belonging to *James Guthrie Esq* whereof *Dickie* is Master, *Tons Register, and 100 H.P.* have been carefully inspected and examined by *us* at *Port Glasgow* and *we* found the same, at this date, in good order and safe working condition.

Pro Blackwood & Gordon
Andrew McGeenan
 Registrar
 Marine Engineers.