

# 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 &amp; Gordon</i>	Bilge Pumps, No. ( <i>Two</i> ) and size	<i>2 3/4 diameters</i>
„ age of	<i>New</i>	Feed „ No. ( <i>Two</i> ) and size	<i>2 3/4 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>Along side of Boilers</i>
Diameter of Cylinder	<i>20 inches 7/8, 35" E</i>	„ space between Coal Bunkers and Boilers	<i>5 inches</i>
Length of stroke	<i>24 inches</i>	„ for what quantity is space provided	<i>20 Tons</i>
No. per minute of Engines	<i>75</i>	Donkey Engine and Boiler	<i>Donkey engine, no boiler</i>
„ of Screw	<i>75</i>	„ if fitted in Engine Room or on Deck	
Estimated power	<i>60 horses</i>	„ can pump be worked by hand	
Effective power	<i>280</i>	„ size of pump ( <i>3</i> ) and stroke	<i>6 inches</i>
Diameter of Screw (or Paddle Wheels)	<i>9 ft. 0 ins</i>	„ is hose of sufficient length to reach every part of the Vessel	<i>Yes</i>
Pitch of Screw	<i>13, 6</i>	No. ( <i>One</i> ) and continuation of hand pumps, if fitted in Engine Room	<i>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 1/4</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 force, or after end of Boiler, &c.

*One round horizontal tubular boiler with two furnaces*

BOILER, maker of	<i>Blackwood &amp; Gordon</i>	<del>Can each Boiler be used separately</del>	
„ age of	<i>New</i>	What clear space between top of Boiler and woodwork	<i>8 inches</i>
„ when last taken out		What clear space between Funnel and woodwork	<i>9 inches</i>
„ present condition	<i>Good</i>	Are Engine and Boiler Keelsons well connected fore and aft	<i>Yes</i>
„ working pressure	<i>60</i>	No. of surface Blow off Cocks to each Boiler	<i>one surface &amp; one bottom blow off</i>
SCREW SHAFT length	<i>46 feet</i>	diameter	<i>6 inches</i>
width	<i>Three feet</i>	Tunnel, thickness of plating	<i>1/4" height</i>
		if water-tight door on Engine Bulkhead.	<i>Yes</i>

Port of *Port Glasgow* day of *29th April* 18*75*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Anna Clara* belonging to *London* whereof *Burkhill* is Master, *129* Tons Register, and *60* 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.

*Blackwood & Gordon*  
*Castle Building Yard Glasgow*  
 Marine Engineers.