

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 surface condensing,
Two Cylinders jacketed.*

ENGINES, maker of	<i>Blackwood & Gordon</i>	Bilge Pumps, No. (<i>2</i>) and size	<i>3 1/2" x 15" stroke</i>
„ age of	<i>new</i>	Feed „ No. (<i>2</i>) and size	<i>Do 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>alongside of boiler</i>
Diameter of Cylinder	<i>25" & 44"</i>	„ space between Coal Bunkers and Boilers	<i>4 3/4</i>
Length of stroke	<i>30"</i>	„ for what quantity is space provided	<i>150 tons</i>
No. per minute of Engines	<i>73</i>	Donkey Engine and Boiler	<i>yes</i>
„ of Screw	<i>73</i>	„ if fitted in Engine Room or on Deck	<i>Boiler on deck</i>
Estimated power	<i>90</i>	„ can pump be worked by hand	<i>No</i>
Effective power	<i>478</i>	„ size of pump (<i>3 1/2</i>) and stroke	<i>6"</i>
Diameter of Screw (or Paddle Wheels)	<i>10 feet</i>	„ is hose of sufficient length to reach every part of the Vessel	<i>yes</i>
Pitch of Screw	<i>17"</i>	No. (<i>1</i>) and continuation of hand pumps, if fitted in Engine Room	<i>yes</i>
No. of Blades (or Floats)	<i>four</i>		
Description of Screw (or Floats)	<i>Common</i>		
Holding down Bolts, size	<i>1 1/8"</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.

one round horizontal tubular, fired fore and aft with four furnaces, no superheating

BOILER, maker of	<i>Blackwood & Gordon</i>	Can each Boiler be used separately	
„ age of	<i>new</i>	What clear space between top of Boiler and woodwork	<i>No wood work</i>
„ when last taken out		What clear space between Funnel and woodwork	<i>Do Do</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 and one bottom blow off</i>		
SCREW SHAFT length	<i>82 feet</i>	Tunnel, thickness of plating	<i>1/4" & 3/16" height 3'-6"</i>
width	<i>3'-3"</i>	if water-tight door on Engine Bulkhead.	<i>yes</i>

Port *of Porthlasgow* ^{*5th*} day of *August* 18 *70*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Renfrewshire"* belonging to *Porthlasgow* whereof *John Watt* is Master, Tons Register, and *90* H.P. have been carefully inspected and examined by *us* at *Porthlasgow* and *we* found the same, at this date, in good order and safe working condition.

Blackwood & Gordon
Marine Engineers.
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