

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.

Direct acting, Horizontal, Compound, with Surface Condensers.

ENGINES, maker of	<i>John Key</i>	Bilge Pumps, No. (<i>2</i>) and size	<i>4 1/2" dia 38" stroke</i>
„ age of	<i>Five years</i>	Feed „ No. (<i>2</i>) and size	<i>4 1/2" " "</i>
„ last time taken out	<i>1874</i>	Spare gear, if usual quantity on board Vessel	<i>Yes</i>
„ present condition	<i>New Cylinders, Good</i>	Fuel, where stowed	<i>In Coal Bunkers</i>
Diameter of Cylinder	<i>46 80 ins</i>	„ space between Coal Bunkers and Boilers	<i>1' 2"</i>
Length of stroke	<i>38 ins</i>	„ for what quantity is space provided	<i>450 Tons</i>
No. per minute of Engines	<i>60</i>	Donkey Engine and Boiler	<i>Yes</i>
„ of Screw	<i>60</i>	„ if fitted in Engine Room or on Deck	<i>Fore end of Stowehole</i>
Estimated power	<i>400</i>	„ can pump be worked by hand	<i>Yes</i>
Effective power	<i>1500</i>	„ size of pump (<i>5 1/2"</i>) and stroke	<i>11"</i>
Diameter of Screw (or Paddle Wheels)	<i>17 1/4</i>	„ is hose of sufficient length to reach every part of the Vessel	<i>Yes</i>
Pitch of Screw	<i>22 1/4</i>	No. (<i>one</i>) and continuation of hand pumps, if fitted in Engine Room	<i>Double acting</i>
No. of Blades (or Floats)	<i>4</i>		
Description of Screw (or Floats)	<i>Griffiths</i>		
Holding down Bolts, size	<i>1 3/4</i>		
„ present condition	<i>New</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.

*Four Circular Boilers 12 feet diameter, Super heater
Three furnaces in each boiler, fired athwartships
Provided to 120 lbs
Working Pressure 60 lbs*

BOILER, maker of	<i>John Key</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>5' 6"</i>
„ when last taken out		What clear space between Funnel and woodwork	<i>2 feet</i>
„ present condition	<i>Good</i>	Are Engine and Boiler Keelsons well connected fore and aft	<i>Yes</i>
„ working pressure	<i>60 lbs</i>		
No. of surface Blow off Cocks to each Boiler	<i>one</i>		
SCREW SHAFT length	<i>123 ft</i>	diameter	<i>1 1/4"</i>
width	<i>4' 8"</i>	Tunnel thickness of plating	<i>3/8"</i>
		height	<i>6 feet</i>
		if water-tight door on Engine Bulkhead.	<i>Yes</i>

Port *Reith* 19 day of *October* 187*6*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Scotland* belonging to *Temperleys & Co* whereof *John James* is Master, *2645* Tons Register, and *400* H.P. have been carefully inspected and examined by me at *Reith* and I found the same, at this date, in good order and safe working condition.

John Key
Marine Engineers.



Lloyd's Register
Foundation

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