

## 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 inverted - 2 Cylinders*

ENGINES, maker of <i>Newnson (Lamborn &amp; Co)</i>	Bilge Pumps, No. ( ) and size <i>2 4 in</i>
„ age of <i>new</i>	Feed „ No. ( ) and size <i>2 do</i>
„ last time taken out <i>—</i>	Spare gear, if usual quantity on board Vessel <i>yes</i>
„ present condition <i>—</i>	Fuel, where stowed <i>Bunkers</i>
Diameter of Cylinder <i>60 inches &amp; 30 inches</i>	„ space between Coal Bunkers and Boilers <i>6 inches</i>
Length of stroke <i>36 inch -</i>	„ for what quantity is space provided <i>300 tons</i>
No. per minute of Engines <i>60</i>	Donkey Engine and Boiler <i>yes</i>
„ of Screw <i>1 1/2</i>	„ if fitted in Engine Room or on Deck <i>Engine room</i>
Estimated power <i>160 Hp</i>	„ can pump be worked by hand <i>yes</i>
Effective power <i>800</i>	„ size of pump ( ) and stroke <i>4 in double acting</i>
Diameter of Screw (or Paddle Wheels) <i>13 feet</i>	„ is hose of sufficient length to reach every part of the Vessel <i>yes</i>
Pitch of Screw <i>28 -</i>	No. ( ) and continuation of hand pumps, if fitted in Engine Room <i>Engine room</i>
No. of Blades (or Floats) <i>4 -</i>	
Description of Screw (or Floats) <i>—</i>	
Holding down Bolts, size <i>1 1/4</i>	
„ present condition <i>—</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 return tubular boiler fired fore and aft*

BOILER, maker of <i>Newnson (Lamborn &amp; Co)</i>	Can each Boiler be used separately <i>one</i>
„ age of <i>new</i>	What clear space between top of Boiler and woodwork <i>Free 2 feet</i>
„ when last taken out <i>—</i>	What clear space between Funnel and woodwork <i>— — —</i>
„ present condition <i>both</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>one</i>	
Screw Shaft length <i>80 feet</i> diameter <i>9 ins</i> Tunnel, thickness of plating <i>3/8 ins</i> height <i>6 feet</i>	
width <i>3 feet</i> if water-tight door on Engine Bulkhead. <i>yes</i>	

Port *Reus*

day of *18 August* 18 *71*

*He* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (~~or Paddle~~) Steam Vessel *"Mesopotamia"* belonging to *London* whereof *Philip* is Master, *1217* Tons Register, and *160* H.P. have been carefully inspected and examined by *us* at *Reus* and *me* found the same, at this date, in good order and safe working condition.

*Newnson (Lamborn & Co)*

Marine Engineers.