

# 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.

*A Pair of direct acting, compound, inverted cylinder Engines fitted with surface condenser.*

ENGINES, maker of <i>North Eastern Marine Engineering Co. (Ld)</i>	Bilge Pumps, No. ( <i>2</i> ) and size <i>3" dia 33" stroke</i>
„ age of <i>new</i>	Feed „ No. ( <i>2</i> ) and size <i>3" - 33"</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>In Bunkers (Fore &amp; Aft)</i>
Diameter of Cylinder <i>50" or 24"</i>	„ space between Coal Bunkers and Boilers <i>9 inches</i>
Length of stroke <i>33"</i>	„ for what quantity is space provided <i>180 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>in Engine Room</i>
Estimated power <i>98.</i>	„ can pump be worked by hand <i>yes</i>
Effective power <i>392.</i>	„ size of pump ( <i>4</i> ) and stroke <i>6"</i>
Diameter of Screw (or Paddle Wheels) <i>11" 9"</i>	„ is hose of sufficient length to reach every part of the Vessel <i>yes</i>
Pitch of Screw <i>15 per.</i>	No. ( ) and continuation of hand pumps, if fitted in Engine Room <i>yes.</i>
No. of Blades (or Floats) <i>4</i>	
Description of Screw (or Floats) <i>Common</i>	
Holding down Bolts, size <i>1 3/8</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 force, or after end of Boiler, &c.

*Two Multitubular Boilers, with two furnaces each fired from forward end of Boiler.*

BOILER, maker of <i>N. E. M. &amp; E. Co. (Ld) Dundee</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>4' 8"</i>
„ when last taken out <i>—</i>	What clear space between Funnel and woodwork <i>2' 7 1/4"</i>
„ present condition <i>—</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 surface &amp; one bottom</i>	
Screw SHAFT length <i>8' 1" - 4"</i> diameter <i>8 1/2"</i>	Tunnel, thickness of plating height <i>6' - 0"</i>
width <i>3' - 9"</i> if water-tight door on Engine Bulkhead.	

Port *Dundee* 4<sup>th</sup> day of *October* 1872

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Biscay"* belonging to *Laurie* whereof *Stephenson* is Master, *571.22* Tons Register, and *98* H.P. have been carefully inspected and examined by *us* at *Dundee* and *we* found the same, at this date, in good order and safe working condition.

For and on behalf of the North Eastern Marine Engineering Company Limited.

Marine Engineers.

*Walter Beattie*



"Piscary"

No 6 M 6



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Foundation