

# 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.

*Inverted direct acting compound Engine  
Two Cylinders*

ENGINES, maker of *John Readhead & Co*  
 „ age of *New*  
 „ last time taken out \_\_\_\_\_  
 „ present condition *Good*  
 Diameter of Cylinder *29" and 33"*  
 Length of stroke *36"*  
 R.P.M. per minute of Engines *40*  
 „ of Screw *40*  
 Estimated power *120*  
 Effective power *500*  
 Diameter of Screw (or Paddle Wheels) *13 1/2 ft*  
 Pitch of Screw *19 feet*  
 No. of Blades (or Floats) *four*  
 Description of Screw (or Floats) *ordinary*  
 Holding down Bolts, size *1 1/2"*  
 „ present condition *Good*

Bilge Pumps, No. (*Two*) and size *3 1/2" dia x 20" Stroke*  
 Feed „ No. (*Two*) and size *3 1/2" dia 20" do*  
 Spare gear, if usual quantity on board Vessel *yes*  
 Fuel, where stowed *alongside of Engines & Boilers*  
 „ space between Coal Bunkers and Boilers *9" inches*  
 „ for what quantity is space provided *200 Tons*  
 Donkey Engine and Boiler *yes*  
 „ if fitted in Engine Room or on Deck *in Engine Room*  
 „ can pump be worked by hand *yes*  
 „ size of pump (*8 1/2*) and stroke *12"*  
 „ is hose of sufficient length to reach every part of the Vessel *yes*  
 No. (*one*) and continuation of hand pumps, if fitted in Engine Room *yes*

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.

*Two Multitubular Boilers with 2 furnaces each and superheating and fired from fore end*

BOILER, maker of *John Readhead & Co*  
 „ age of *New*  
 „ when last taken out \_\_\_\_\_  
 „ present condition *Good*  
 „ working pressure *65 lbs*  
 No. of surface Blow off Cocks to each Boiler *Two*

Can each Boiler be used separately *yes*  
 What clear space between top of Boiler and woodwork *6 feet*  
 What clear space between Funnel and woodwork *3 feet*  
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

CREW SHAFT length *9 ft* diameter *9"* Tunnel, thickness of plating *5/16* height *4 feet*  
 width *3 1/2 ft* if water-tight door on Engine Bulkhead *yes*

Port *South Shields 29th* day of *January* 18*73*

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel "*Matthew Bay*" belonging to *South Shields* whereof *J. Bradley* is Master, *809.5* Tons Register, and *120* H.P. have been carefully inspected and examined by us at *South Shields* and we found the same, at this date, in good order and safe working condition.

*John Readhead & Co*  
*South Shields*  
 Marine Engineers.