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## LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER'S CERTIFICATE

Recd 24/11/79

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.

ENGINES, maker of *Blair & Co. Stockton on Tees*  
 „ age of *None years*  
 „ last time taken out *Never*  
 „ present condition *Good*  
 Diameter of Cylinders *25 1/2 & 47 1/2 inches*  
 Length of stroke *33 inches*  
 No. per minute of Engines *63*  
 „ of Screw *—*  
 Estimated power *99*  
 Effective power *—*  
 Diameter of Screw (or Paddle Wheels) *12 1/2 feet*  
 Pitch of Screw *15 1/3*  
 No. of Blades (or Floats) *3*  
 Description of Screw (or Floats) *Ordinary, Solid*  
 Holding down Bolts, size *Two inches diam.*  
 „ present condition *Good*

Bilge Pumps, No. ( *2* ) and size *3 1/2 diam. 18" stroke*  
 Feed „ No. ( *2* ) and size *3 1/2 18*  
 Spare gear, if usual quantity on board Vessel *Full supply*  
 Fuel, where stowed *one thwartship & two side bunkers*  
 „ space between Coal Bunkers and Boilers *7 inches*  
 „ for what quantity is space provided *220 Tons*  
 Donkey Engine and Boiler *One*  
 „ if fitted in Engine Room or on Deck *in Engine Room*  
 „ can pump be worked by hand *yes*  
 „ size of pump ( ) and stroke *—*  
 „ is hose of sufficient length to reach every part of the Vessel *yes*  
 No. ( ) and continuation of hand pumps, if fitted in Engine Room *—*

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.

*Multitubular, flat sided, semi-circular tops & bottoms - 12" Two with two furnaces in each boiler, Fired from forward ends - No steam domes or superheaters*

BOILER, maker of *Morris' Dock & Engineering Co.*  
 „ age of *Never*  
 „ when last taken out *—*  
 „ present condition *—*  
 „ working pressure *70 lbs on the square inch*  
 No. of surface Blow off Cocks to each Boiler *One*

Can each Boiler be used separately *yes*  
 What clear space between top of Boiler and woodwork *Three feet*  
 What clear space between Funnel and woodwork *Casing 1/2 iron 9 1/2 inches*  
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *50 ft* diameter *8 inches* Tunnel thickness of plating *1/4 inch* height *5 ft 6 in*  
 width *3' 4"* if water-tight door on Engine Bulkhead. *yes*

Port

of *Sydney*4<sup>th</sup> day of *September* 18 *79*

hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood)

Screw (or Paddle) Steam Vessel

belonging to *E. G. & Co. Ltd*

whereof *G. R. Lums* is Master, *559 7/100* Tons Register, and *99* H.P. have been carefully inspected and examined by *me* at *Sydney New South Wales* and *I* found the same, at this date, in good order and safe working condition.

*D. Broderick*

Marine Engineers.



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Foundation