

25387 *Iron*

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

ENGINEER'S CERTIFICATE. *Rec 12/1/80*

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.*Compound, Inverted, Direct Acting. Two (2) Cyls.*ENGINES, maker of *Blackwood & Gordon St. Glasgow.*,, age of *Built November 1877.*

,, last time taken out

,, present condition *Good*Diameter of Cylinder *26" & 46"*Length of stroke *24" & 33"*No. per minute of Engines *75*,, of Screw *One*Estimated power *95 HP*Effective power *560*Diameter of Screw (or Paddle Wheels) *10' 6"*Pitch of Screw *17' 6"*No. of Blades (or Floats) *Four*Description of Screw (or Floats) *Griffiths.*Holding down Bolts, size *1 1/2"*,, present condition *Good.*Bilge Pumps, No. ( *2* ) and size *3 1/4"*Feed ,, No. ( *2* ) and size *3 1/4"*Spare gear, if usual quantity on board Vessel *Yes*Fuel, where stowed *Stewart in front of Boiler*,, space between Coal Bunkers and Boilers *7 feet*,, for what quantity is space provided *50 tons.*

Donkey Engine and Boiler

,, if fitted in Engine Room or on Deck *On main Deck*,, can pump be worked by hand *No*,, size of pump ( *4"* ) and stroke *8"*,, is hose of sufficient length to reach every part of the Vessel *Yes*No. ( *1* ) and continuation of hand pumps, if fitted in Engine Room *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 fore, or after end of Boiler, &c.*Two Circular Multitubular, Two furnaces in each Boiler; Fire fore and aft*BOILER, maker of *Blackwood & Gordon St. Glasgow.*,, age of *Built November 1877*

,, when last taken out

,, present condition *Good*,, working pressure *65 lbs.*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~~ *1 foot, Iron main, deck*What clear space between Funnel and woodwork *3' 6"*Are Engine and Boiler Keelsons well connected fore and aft *Yes*SCREW SHAFT length *15' 6"* diameter *8 1/2* Tunnel thickness of plating *5/16"* height *5 feet*  
width *4 feet* if water-tight door on Engine Bulkhead. *Yes*Port *Adelaide, Twelfth* day of *November* 18 *79.*

*We* hereby certify, that the whole of the above Machinery and Boilers of the *Iron (or Wood)*  
Screw (or Paddle) Steam Vessel *"Emu"* belonging to *Port Line Steamship Co.*  
whereof *Robert W. Osborne* is Master, *392* Tons Register, and *95* H.P. have been  
carefully inspected and examined by *us* at *St. Adelaide* and *we* found the  
same, at this date, in good order and safe working condition.

*James McCulloch, Engineer, Surveyor Marine Board*  
*Alfred Gray, Chief Engineer*  
Marine Engineers.

*\*Emu Steamship Co. Ltd.*Lloyd's Register  
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The engines & boilers of this vessel  
have been inspected in Novr last  
and are reported by the Engineer  
Surveyor to the Marine Board  
of Australia to be in good  
working order.

It is submitted that  
the vessel is eligible to  
remain as classed.

MD  
13-1-80



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