

# 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 compound Engines, with two inverted cylinders & Surface Condensers*  
*1350 Iron*

ENGINES, maker of *A & J Inglis, Glasgow*  
,, age of *New*  
,, last time taken out  
,, present condition *New*  
Diameter of Cylinder *40 inches & 71 inches*  
Length of stroke *5' 6"*  
No. per minute of Engines *60*  
,, of Screw *60*  
Estimated power *250*  
Effective power *1350*  
Diameter of Screw (or Paddle Wheels) *16 feet*  
Pitch of Screw *22 feet*  
No. of Blades (or Floats) *Four*  
Description of Screw (or Floats) *Swing's patent*  
Holding down Bolts, size *1 inch*  
,, present condition *New*

Bilge Pumps, No. ( *2* ) and size *5" dia x 1' 9" Stroke*  
Feed ,, No. ( *2* ) and size *5" dia x 1' 9" Stroke*  
Spare gear, if usual quantity on board Vessel *Yes*  
Fuel, where stowed *Stowage in Ship's bunkers*  
,, space between Coal Bunkers and Boilers  
,, for what quantity is space provided  
Donkey Engine and Boiler *Yes*  
,, if fitted in Engine Room or on Deck *Donkey in Engine Room*  
,, can pump be worked by hand *No*  
,, size of pump ( ) and stroke *10" double acting*  
,, 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 *one 4 1/4" dia x 10" Stroke double acting*

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.

*Four Tubular Boilers with 2 furnaces in each. 2 Boilers fired from forward and 2 from aft one superheater with 4 Tubes.*

BOILER, maker of *A & J Inglis, Glasgow*  
,, age of *New*  
,, when last taken out  
,, present condition *New*  
,, working pressure *70 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 *all Iron*  
What clear space between Funnel and woodwork *12 inches*  
Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *68 feet* diameter *12 ins* Tunnel thickness of plating *9/16"* height *4 feet*  
width *4' 3"* if water-tight door on Engine Bulkhead *Yes*

Port of *Glasgow* 28<sup>th</sup> day of *September* 18<sup>74</sup>

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood)  
Screw (or Paddle) Steam Vessel *Bushane* belonging to *Eastern & Australian Mail Steam Co Ltd*  
whereof *Robert Balfour* is Master, *201-18* Tons Register, and *250* H.P. have been  
carefully inspected and examined by us at *Glasgow* and we found the  
same, at this date, in good order and safe working condition.

*W. J. Inglis*  
*Glasgow*

Marine Engineers.



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IRON 458-0351