

LOYD'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, inverted, Compound High & Low pressure Engines - with two Cylinders

ENGINES, maker of *Jarvis & Sons*
 „ age of *new*
 „ last time taken out
 „ present condition
 Diameter of Cylinders *25 inches & 15 inches*
 Length of stroke *21 inches*
 No. per minute of Engines *100*
 „ of Screw *100*
 Estimated power *21 Horses*
 Effective power *100*
 Diameter of Screw (or Paddle Wheels) *7 feet 6 inches*
 Pitch of Screw *about 9 feet*
 No. of Blades (or Floats) *three*
 Description of Screw (or Floats)
 Holding down Bolts, size *24 & 1 Bolt*
 „ present condition

Bilge Pumps, No. (*1*) and size *3 1/2" pumps*
 Feed „ No. (*1*) and size *3 1/2" „*
 Spare gear, if usual quantity on board Vessel
 Fuel, where stowed *in Bunkers on each side of Boiler*
 „ space between Coal Bunkers } *6" & 16"*
 and Boilers
 „ for what quantity is space provided
 Donkey Engine and Boiler
 „ if fitted in Engine Room or on Deck } *Engine Room*
 „ can pump be worked by hand *Yes*
 „ size of pump (*3"*) and stroke *6" & Double Acting*
 „ is hose of sufficient length to reach every part of the Vessel
 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 fore, or after end of Boiler, &c.

One Cylindrical, flued & tubular Boiler - 2 Furnaces inside flues - fired from fore end of Boiler (forward)

BOILER, maker of *Jarvis & Sons*
 „ age of *new*
 „ when last taken out
 „ present condition
 „ working pressure *50 lbs per square inch*
 No. of surface Blow off Cocks to each Boiler *one*

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

Screw Shaft length *12 feet* diameter *5 inches* Tunnel, thickness of plating height
 width if water-tight door on Engine Bulkhead. *Yes*

Port *Glasgow* 11th day of *March* 1872

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) *Adelaide* belonging to *Mr J & J Hay*
Frederick Campbell is Master, *285* Tons Register, and *21* H.P. have been inspected and examined by us at *Glasgow* and *they* found the this date, in good order and safe working condition. *indeed they are new*

Jarvis & Sons

Marine Engineers.

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