

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 *2 1/2" Bolts*
 „ 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 } *Engine Room*
 on Deck }
 „ 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 ^(forward) fore end of Boiler.

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 } *one*
 each Boiler }

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* 187*2*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or ~~Wood~~)
 Screw (or Paddle) Steam Vessel *"Adelaide"* belonging to *Messrs J & J Hay*
Donald Campbell is Master, *285* Tons Register, and *21* *108* *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
 Lloyd's Register
 Marine Engineers.