

10438 Lm

## 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:—

*"Dahlia" s. s.*

ENGINES.—Here state description of Engines, whether Direct Acting or Geared; Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

*A set of Compound - Direct acting - Inverted Engines with four cylinders - Two high pressure cylinders 21 inches diam and two low pressure cylinders 47 inches diam - each 3ft 3 ins stroke.*

ENGINES, maker of *Geo Forester & Co*  
 „ age of *new*  
 „ last time taken out  
 „ present condition  
 Diameter of Cylinder *Two 21 ins and two 47 ins.*  
 Length of stroke *3ft 3 ins -*  
 No. per minute of Engines *65 revs*  
 „ of Screw *do*  
 Estimated power *200 H.P.*  
 Effective power *800 H.P.*  
 Diameter of Screw (or Paddle Wheels) *15ft*  
 Pitch of Screw *17-6"*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats) *Steel blades*  
 Holding down Bolts, size *Thirty two 1 1/2 dia*  
 „ present condition *new*

Bilge Pumps, No. ( *one* ) and size *4 3/4" dia 1-7 1/2 stroke*  
 Feed „ No. ( *one* ) and size *4 3/4" - 1-7 1/2 -*  
 Spare gear, if usual quantity on board Vessel *yes*  
 Fuel, where stowed *Bunkers at sides of Engine & Boiler room*  
 „ space between Coal Bunkers and Boilers *14 ins and 20 ins -*  
 „ for what quantity is space provided *177 tons*  
 Donkey Engine and Boiler *yes*  
 „ if fitted in Engine Room or on Deck *Donkey in Engine room and Boiler on Deck*  
 „ can pump be worked by hand *yes*  
 „ size of pump ( ) and stroke *3 1/2 dia 10" 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 *The 3 1/2 dia 10" stroke 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 Tubular Boilers with four furnaces in each boiler and fitted with superheaters - Fired fore and aft -*

BOILER, maker of *Geo. Forester & Co*  
 „ age of *new*  
 „ when last taken out  
 „ present condition  
 „ working pressure *70 lbs on 12 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 *9 inches*  
 What clear space between Funnel and woodwork *2ft 3 ins -*  
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *95ft* diameter *10 1/4 ins* Tunnel, thickness of plating *5/16* height *4-11 ins -*  
 width *3-11"* if water-tight door on Engine Bulkhead. *yes*

Port *Liverpool* 3 day of *August* 1872

*I* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Dahlia* belonging to *Wm Harcourt Ferguson and Jackson* whereof *Matthew Crawford* is Master, Tons Register, and *200* H.P. have been carefully inspected and examined by us at *Liverpool* and are found the same, at this date, in good order and safe working condition.

*BLR*

*Geo. Forester & Co.*  
 Marine Engineers.

IRON 451-0451