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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 1-7/8 stroke
Feed ,, No. (one) and size 4 3/4 - 1-7/8 -
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 force, 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

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel Dahlia belonging to Messrs Harcourt Ferguson and 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.

Signature of Matthew Crawford

Geo. Forester & Co. Marine Engineers.
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