

13535 In

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.

Inverted, direct-acting, Compound, Surface-condensing Screw Engines. 2 cylinders.

ENGINES, maker of R & W. Hawthorn
age of New
last time taken out
present condition
Diameter of Cylinder 52" H.P. 96" L.P.
Length of stroke 4' 3"
No. per minute of Engines 50
of Screw 50
Estimated power 450 H.P. Nominal
Effective power 2000
Diameter of Screw (or Paddle Wheels) 20' 0"
Pitch of Screw 22 ft at base, increasing to 26 ft at crown
No. of Blades (or Floats) 4
Description of Screw (or Floats) Right handed, moveable blades
Holding down Bolts, size 1 1/2" dia
present condition New

Bilge Pumps, No. (2) and size 6 1/2" dia. 18" Stroke.
Feed No. (2) and size 8 1/2" - 13 1/4"
Spare gear, if usual quantity on board Vessel Yes
Fuel, where stowed In bunkers athwartships
space between Coal Bunkers and Boilers 8' 6"
for what quantity is space provided 1000 Tons
Donkey Engine and Boiler Yes
if fitted in Engine Room or on Deck Donkey in Eng. room, Boiler in Stowage
can pump be worked by hand Yes
size of pump 8" and stroke 12"
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

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.

3 Cylindrical, double-ended, multitubular boilers. 6 furnaces in each. Fitted with Superheating apparatus & fired fore & aft.

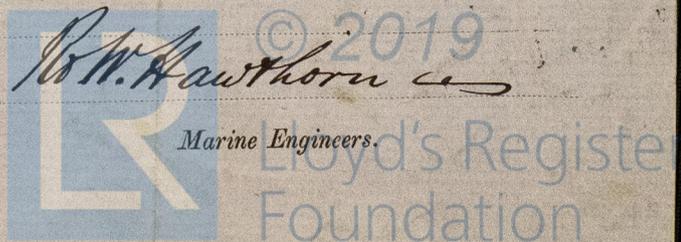
BOILER, maker of R & W. Hawthorn
age of New
when last taken out
present condition
working pressure 70 lbs
No. of surface Blow off Cocks to each Boiler One

Can each Boiler be used separately Yes
What clear space between top of Boiler and woodwork 7' 3"
What clear space between Funnel and woodwork 3' 0"
Are Engine and Boiler Keelsons well connected fore and aft Yes

SCREW SHAFT length 124 ft. diameter Tunnel thickness of plating 3/8 height 6' 9"
width 4' 6" if water-tight door on Engine Bulkhead. Yes

Port Newcastle 4th day of October 1874

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "St Onytha" belonging to London whereof B. Mc Nab is Master, 2296.32 Tons Register, and 450 H.P. have been carefully inspected and examined by us at Newcastle on Tyne and we found the same, at this date, in good order and safe working condition.



IRON 459-0172