

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" HP & 96" Low P.*

Length of stroke *4' 3"*

No. per minute of Engines *50*

„ of Screw

Estimated power *450 HP Nominal.*

Effective power *2000*

Diameter of Screw (or Paddle Wheels) *20' 0"*

Pitch of Screw *22 ft at boss, increasing to 26 ft at circumference*

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*

Donkey Engine and Boiler *Yes*

„ if fitted in Engine Room or on Deck *Donkey in Engine room Boilers in stokehole.*

„ can pump be worked by hand *Yes*

„ size of pump *4" dia and stroke 12"*

„ is hose of sufficient length to reach every part of the Vessel *Yes*

No. () and continuation of hand pumps, if fitted in Engine Room *One*

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*

SCREW SHAFT length *124' 0" diameter 14"*

width *4' 6"* if water-tight door on Engine Bulkhead. *Yes.*

Can each Boiler be used separately *Yes*

What clear space between top of Boiler and woodwork *4' 3"*

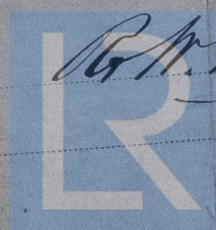
What clear space between Funnel and woodwork *3' 0"*

Are Engine and Boiler Keelsons well connected fore and aft *Yes*

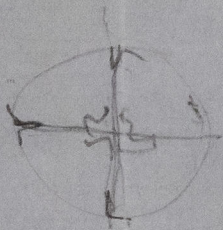
Tunnel, thickness of plating *7/16* height *6' 9"*

Port *Newcastle* 22nd day of *January* 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Hawthorn"* belonging to *London* whereof *Deputy Master* is Master, *2331.75* Tons Register, and *450 HP* have been carefully inspected and examined by us at *Newcastle a/c* and we found the same, at this date, in good order and safe working condition.



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