

Hawthorns

1174 2 Iron Ship

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.

One pair inverted direct acting Compound Screw Engines - fitted with Surface Condenser

Engine Works Co

ENGINES, maker of Converted by Victoria Locks
,, age of New
,, last time taken out
,, present condition Good
Diameter of Cylinder one 25" & one 48" dia
Length of stroke 2' 6"
No. per minute of Engines 65
,, of Screw 65
Estimated power 99
Effective power 405
Diameter of Screw (~~Paddle Wheels~~) 11 feet
Pitch of Screw 16 to 18 feet
No. of Blades (~~Flats~~) three
Description of Screw (~~Flats~~) Common
Holding down Bolts, size 2 inches
,, present condition Good

Bilge Pumps, No. (2) and size 4" diameter
Feed ,, No. (2) and size 4" "
Spare gear, if usual quantity on } Yes
board Vessel }
Fuel, where stowed Side Bunkers
,, space between Coal Bunkers }
and Boilers }
,, for what quantity is space provided 100 Tons
Donkey Engine ~~and Boiler~~ Yes
,, if fitted in Engine Room or } Engine Room
on Deck }
,, can pump be worked by hand Yes
,, size of pump (4") and stroke 8"
,, is hose of sufficient length to } Yes
reach every part of the Vessel }
No. (0) and continuation of hand } None
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.

Two Cylindrical & Multitubular Boilers, with one Annular Superheater, two Furnaces in each Boiler, fired from forward

BOILER, maker of Victoria Locks Engine Works Co
,, age of New
,, when last taken out
,, present condition Good
,, working pressure 75 lbs
No. of surface Blow off Cocks to } one
each Boiler }
SCREW SHAFT length 16 feet diameter 8"
width if water-tight door on Engine Bulkhead.

Can each Boiler be used separately Yes
What clear space between top of } 10 feet
Boiler and woodwork }
What clear space between Funnel } 2 feet
and woodwork }
Are Engine and Boiler Keelsons } Yes
well connected fore and aft }

Port London - yth day of August 1873

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~Wood~~) crew (~~Paddle~~) Steam Vessel Hawthorns belonging to John Fenwick & Son whereof Geary is Master, 576 Tons Register, and 99 H.P. have been carefully inspected and examined by us at Victoria Locks and we found the same, at this date, in good order and safe working condition.

for Victoria Locks Engine Works Co
E. Church
Marine Engineers.