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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:—

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

*Direct Acting Inverted Surface Condensing screw engine
Two Cylinders.*

ENGINES, maker of *R & W Hawthorn*
,, age of *18 years*
,, last time taken out *1891*
,, present condition *Good*
Diameter of Cylinder *3 1/2*
Length of stroke *26*
No. per minute of Engines *70*
,, of Screw *40*
Estimated power *140*
Effective power *280*
Diameter of Screw (or Paddle Wheels) *10.0*
Pitch of Screw *17-0*
No. of Blades (or Floats) *11*
Description of Screw (or Floats) *Screw*
Holding down Bolts, size *2"*
,, present condition *Good*

Bilge Pumps, No. (*1*) and size *4 1/2 dia*
Feed ,, No. (*1*) and size *4 1/2 dia*
Spare gear, if usual quantity on board Vessel }
Fuel, where stowed *Bunkers*
,, space between Coal Bunkers and Boilers } *Close*
,, for what quantity is space provided }
Donkey Engine and Boiler *No Donkey Boiler*
,, if fitted in Engine Room or on Deck } *Engine Room*
,, can pump be worked by hand *Yes*
,, size of pump (*9*) and stroke *10"*
,, is hose of sufficient length to reach every part of the Vessel }
No. () and continuation of hand pumps, if fitted in Engine Room } *None*

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.

1 Multitubular Boiler 2 furnaces fired aft

BOILER, maker of *John Dickson*
,, age of *3 years*
,, when last taken out
,, present condition *Good*
,, working pressure *30 lbs*
No. of surface Blow off Cocks to each Boiler } *One*

Can each Boiler be used separately
What clear space between top of Boiler and woodwork } *Iron*
What clear space between Funnel and woodwork } *5.0*
Are Engine and Boiler Keelsons well connected fore and aft }

SCREW SHAFT length *10.9* diameter *4 1/2* Tunnel thickness of plating *Engines aft*
~~width of water tight door on Engine Bulkhead.~~

Port *Sunderland* *10th* day of *November* 18 *74*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Seaton* belonging to whereof *Seaton* is Master, *622* Tons Register, and *70* H.P. have been carefully inspected and examined by me at *Sunderland* and I found the same, at this date, in good order and safe working condition.

John Dickson
Palmer Hill Engine Works
Marine Engineers.



Lloyd's Register Foundation

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