

9257 Iron

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 Cylinders direct acting number
of Cylinders Two*

ENGINES, maker of *Richardson & Son*
 „ age of *6 years*
 „ last time taken out *never*
 „ present condition *good*
 Diameter of Cylinder *3 8 inches*
 Length of stroke *2 1/2 ft.*
 No. per minute of Engines *45*
 „ of Screw *4 1/2*
 Estimated power *100*
 Effective power *270*
 Diameter of Screw (or Paddle Wheels) *1 3/4 ft*
 Pitch of Screw *1 6*
 No. of Blades (or Floats) *3*
 Description of Screw (or Floats) *2 3/4 x 1*
 Holding down Bolts, size *3 3/4*
 „ present condition *good*

Bilge Pumps, No. (*2*) and size *5*
 Feed „ No. (*2*) and size *5*
 Spare gear, if usual quantity on board Vessel *5 coupling bolts*
 Fuel, where stowed *4 one valve rod*
 „ space between Coal Bunkers and Boilers *bunkers 7 inches*
 „ for what quantity is space provided *13 1/2 Tons*
 Donkey Engine and Boiler *one*
 „ if fitted in Engine Room or on Deck *Donkey in Engine room Boiler on Deck*
 „ can pump be worked by hand *no*
 „ size of pump () and stroke *1*
 „ is hose of sufficient length to reach every part of the Vessel *+*
 No. () 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 force, or after end of Boiler, &c.

*Ordinary Multitubular Boiler
Low Pres. Charged Forward End*

BOILER, maker of *Batchelor Brothers*
 „ age of *2nd June 1870*
 „ when last taken out *Muddling*
 „ present condition *20 lbs*
 „ working pressure *2*
 No. of surface Blow off Cocks to each Boiler *2*

Can each Boiler be used separately *one boiler*
 What clear space between top of Boiler and woodwork *9 inches*
 What clear space between Funnel and woodwork *23 inches*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *83* diameter *8 1/2* inches, thickness of plating *3/16* height *5.2 inches*
 width if water-tight door on Engine Bulkhead. *yes*

Port *Sunderland* day of *Nov 7* 18 *70*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or ~~Wood~~) Screw (or ~~Paddle~~) Steam Vessel *Elaine* belonging to *Sunderland* whereof *120y* is Master, *453* Tons Register, and *100* H.P. have been carefully inspected and examined by *me* at *Sunderland* and *have* found the same, at this date, in good order and safe working condition.

Joseph Richy
 Engineer of Ships
 Lloyd's Register
 Marine Engineers.



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Foundation