

10343 *Ln*

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 *P & W. Hawthorn*

„ age of *New*

„ last time taken out

„ present condition *New*

Diameter of Cylinder *30 High Press 40 Low Press*

Length of stroke *3' 6"*

No. per minute of Engines *65*

„ of Screw *65*

Estimated power *200 HP*

Effective power *900 HP*

Diameter of Screw (~~or Floats~~) *16 ft*

Pitch of Screw *20 ft to 24 ft*

No. of Blades (~~or Floats~~) *4*

Description of Screw (or Floats) *Right hand loose blades*

Holding down Bolts, size *3 1/2 dia*

„ present condition *New*

Bilge Pumps, No. ( *2* ) and size *4 dia 10' Stroke*

Feed „ No. ( *2* ) and size *5 1/2 dia 18' Stroke*

Spare gear, if usual quantity on board Vessel *yes*

Fuel, where stowed *in Bunker between Eng's & Boilers*

„ space between Coal Bunkers and Boilers *2' 10"*

„ for what quantity is space provided *360 tons*

Donkey Engine and Boiler *1 Donkey & Boiler*

„ if fitted in Engine Room or on Deck *Donkey in Engine Room  
Boiler in Stoke Hole*

„ can pump be worked by hand *yes*

„ size of pump ( *H'* ) and stroke *6"*

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

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 fore, or after end of Boiler, &c.

*2 Cylindrical Multitubular Boilers 4 Furnaces in each  
Fitted with Superheating Apparatus & Fired Athwartships*

BOILER, maker of *P & W. Hawthorn*

„ age of *New*

„ when last taken out

„ present condition *New*

„ working pressure *65 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 *5' 0"*

What clear space between Funnel and woodwork *2' 0" from front*

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

SCREW SHAFT length *94' 6"* diameter *10 1/2"* Tunnel, thickness of plating *5/16"* height *5' 6"*  
width *3' 9"* if water-tight door on Engine Bulkhead. *yes*

Port *Newcastle*, day of *June* 18 *72*

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Steam~~) Vessel "*Vibilia*" belonging to *Newcastle* whereof *C. H. J. Basset* is Master, 1240.4 Tons Register, and 200 H.P. have been carefully inspected and examined by us at *Walker & Son* and we found the same, at this date, in good order and safe working condition.

*P & W. Hawthorn*  
Marine Engineers.

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