

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 Paddle Wheels~~) *16 ft*
 Pitch of Screw *20 ft to 24 ft*
 No. of Blades (~~or Floats~~) *4*
 Description of Screw (or Floats) *Right hand 2 coarse blades*
 Holding down Bolts, size *3/2 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 } *yes*
 board Vessel }
 Fuel, where stowed *in Bunker between Engine & Boilers*
 „ space between Coal Bunkers } *2' 10*
 and Boilers }
 „ for what quantity is space provided *360 tons*
 Donkey Engine and Boiler *1 Donkey & Boiler*
 „ if fitted in Engine Room or } *Donkey in Engine Room*
 on Deck } *Boiler in Stoke Hole*
 „ can pump be worked by hand *yes*
 „ size of pump (*H'*) and stroke *6"*
 „ is hose of sufficient length to } *yes*
 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 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 } *one*
 each Boiler }

Can each Boiler be used separately *yes*
 What clear space between top of } *5' 0'*
 Boiler and woodwork }
 What clear space between Funnel } *2' 0' from fore*
 and woodwork }
 Are Engine and Boiler Keelsons } *yes*
 well connected fore and aft }

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~~) Steam Vessel "*Vibilia*" belonging to *Newcastle* whereof *G. H. J. Basset* is Master, *1240.40* Tons Register, and *200* H.P. have been carefully inspected and examined by us at *Walker & Co* and we found the same, at this date, in good order and safe working condition.

P & W. Hawthorn
 Lloyd's Register
 Marine Engineers.