

504

9441 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 Direct Acting Surface Condensing
Screw Engines with 2 Cylinders*

ENGINES, maker of *Rand W Hawthorn*
 „ age of *New*
 „ last time taken out _____
 „ present condition *New*
 Diameter of Cylinder *38 ins*
 Length of stroke *30 ins*
 No. per minute of Engines *65*
 „ of Screw *65*
 Estimated power *90*
 Effective power *360*
 Diameter of Screw (or Paddle Wheel) *12 - 0*
 Pitch of Screw *12 1/2 to 15 1/2 ft*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *fixed*
 Holding down Bolts, size *2 3/4 ins*
 „ present condition *New*

Bilge Pumps, No. (*2*) and size *5" dia x 12" stroke*
 Feed „ No. (*2*) and size *4" x 18"*
 Spare gear, if usual quantity on board Vessel *yes*
 Fuel, where stowed *At sides of Engines & Boilers*
 „ space between Coal Bunkers and Boilers *9"*
 „ for what quantity is space provided *120 tons*
 Donkey Engine and Boiler *yes*
 „ if fitted in Engine Room or on Deck *Donkey Eng^d in Eng^d room*
 „ can pump be worked by hand *yes*
 „ size of pump (*6*) and stroke *10 in Double acting also*
 „ is hose of sufficient length to reach every part of the Vessel *1 - 4 in dia x 8 stroke single act. yes*
 No. () and continuation of hand pumps, if fitted in Engine Room *Small Donkey worked by hand*

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.

*One Multitubular Boiler with 3 Furnaces, Fitted with
Superheating Apparatus and fired from fore end
of Boiler*

BOILER, maker of *Rand W Hawthorn*
 „ age of *New*
 „ when last taken out _____
 „ present condition *New*
 „ working pressure *40 lbs*
 No. of surface Blow off Cocks to each Boiler *One*

Can each Boiler be used separately *Only one*
 What clear space between top of Boiler and woodwork *6 - 6*
 What clear space between Funnel and woodwork *2 - 2*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *about 15 - 0* diameter *8 ins* Tunnel, thickness of plating *5/16"* height *5 - 0*
 width *3 - 6* if water-tight door on Engine Bulkhead. *On recess aft of Thrust Bearing*

Port *Newcastle* *17th* day of *June* 187*1*

we hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"King Coal."* belonging to *C. Eccles & Partners* whereof *John Chase* is Master, *562.99* Tons Register, and *90* H.P. have been carefully inspected and examined by *us* at *Newcastle* and *we* found the same, at this date, in good order and safe working condition.

Rand W Hawthorn

Marine Engineers.

Lloyd's Register
Foundation

IRON504-0208