

11424 In

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.

Compound Direct Acting, Inverted Cylinders & Surface Condensing Engines, No. of Cylinders, Two,

ENGINES, maker of *M^r Richardson & Sons*
 „ ~~age of~~
 „ last time taken out
 „ present condition *New*
 Diameter of Cylinders *25 x 48"*
 Length of stroke *30"*
 No. per minute of Engines *40*
 „ of Screw *40*
 Estimated power *900*
 Effective power *400*
 Diameter of Screw (or Paddle Wheels) *12 "0"*
 Pitch of Screw
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Ordinary*
 Holding down Bolts, size *1 1/4" Diam^r*
 „ present condition *New*

Bilge Pumps, No. (*One*) and size *3 1/4" Diam^r & 22 1/4" Stroke*
 Feed „ No. (*1*) and size " " " "
 Spare gear, if usual quantity on board Vessel } *Yes*
 Fuel, where stowed *Side Bunkers*
 „ space between Coal Bunkers and Boilers } *12" x 21"*
 „ for what quantity is space provided
 Donkey Engine and Boiler *Yes*
 „ if fitted in Engine Room or on Deck } *In the engine room*
 „ can pump be worked by hand *No. A separate hand pump fitted*
 Two „ size of pump (*4 1/2"*) and stroke *9 1/2" Double acting*
 „ is hose of sufficient length to reach every part of the Vessel } *Yes*
 No. (*One*) and continuation of hand pumps, if fitted in Engine Room } *Fitted in the 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.

Cylindrical Boiler, Tubular, Three Furnaces, No Superheater, & Fired at Fore End

BOILER, maker of *M^r Richardson & Sons*
 „ ~~age of~~
 „ when last taken out
 „ present condition *New*
 „ working pressure *65 lbs. p. sq. inch*
 No. of surface Blow off Cocks to each Boiler } *One Bottom & one Surface*

Can each Boiler be used separately *Single Boiler*
 What clear space between top of Boiler and woodwork } *24" in*
 What clear space between Funnel and woodwork } *24" in*
 Are Engine and Boiler Keelsons well connected fore and aft } *Yes*

SCREW SHAFT length *66" 3"* diameter *4 1/2" x 8"* Tunnel, thickness of plating *5/16* height *4" 6"*
 width *3" 9"* if water-tight door on Engine Bulkhead. *Yes*

Port *West Hartlepool* 26th day of *April* 18⁹³

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) crew (or Paddle) Steam Vessel "*Isidora*" belonging to *London* thereof *Chas. Morice* is Master, *347 2/100* Tons Register, and *90* H.P. have been carefully inspected and examined by Us at *West Hartlepool* and we found the me, at this date, in good order and safe working condition.

R. Richardson & Sons
per Chas. Morice
 Marine Engineers.