

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.

*Direct Acting
2 Cylinders*

ENGINES, maker of *W. Stephenson & Co.*
 „ age of *August 1858*
 „ last time taken out *August 1871*
 „ present condition *Good*
 Diameter of Cylinder *34 1/4 inches*
 Length of stroke *36 do*
 No. per minute of Engines *75*
 „ of Screw *75*
 Estimated power *140*
 Effective power *245*
 Diameter of Screw (or Paddle Wheels) *10 feet*
 Pitch of Screw *17 do*
 No. of Blades (or Floats) *3*
 Description of Screw (or Floats) *Screw*
 Holding down Bolts, size *2 inches*
 „ present condition *Good*

Bilge Pumps, No. (*one*) and size *4 1/2 inches*
 Feed „ No. (*one*) and size *4 1/2 do*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *Side of Boiler*
 „ space between Coal Bunkers and Boilers *5 inches*
 „ for what quantity is space provided *64 tons*
 Donkey Engine and Boiler *Donkey Engine*
 „ if fitted in Engine Room or on Deck *Engine Room*
 „ can pump be worked by hand *Yes*
 „ size of pump (*4*) and stroke *10 inches*
 „ is hose of sufficient length to reach every part of the Vessel *Yes*
 No. (*3*) and continuation of hand pumps, if fitted in Engine Room *No*

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.

One Boiler Tubular. 3 Furnaces and fitted with Superheating apparatus, fired from after end

BOILER, maker of *John Dickinson*
 „ age of *New*
 „ when last taken out *Adm. just out*
 „ present condition *Good*
 „ working pressure *25 lbs*
 No. of surface Blow off Cocks to each Boiler *One*

Can each Boiler be used separately
 What clear space between top of Boiler and woodwork *2' 6"*
 What clear space between Funnel and woodwork *4'*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *22 feet* diameter *7 1/2* Tunnel, thickness of plating *water tight*
part with if water-tight door on Engine Bulkhead. *Plate rivetted*

Port *of Sunderland* *13th* day of *October* 18*70*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Sea to 76"* belonging to *Lindsay Wood* whereof *Thomas Strong* is Master, *632.24* Tons Register, and *70* H.P. have been carefully inspected and examined by *me* at *Sunderland* and I found the same, at this date, in good order and safe working condition.

John Dickinson

