

11586. 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 Compound Engines with
Surface Condenser*

ENGINES, maker of *Martin Samuelson Hull*
 „ age of *new*
 „ last time taken out
 „ present condition *new*
 Diameter of Cylinder *24" and 44"*
 Length of stroke *30"*
 No. per minute of Engines *65 per minute*
 „ of Screw
 Estimated power *90 H.P.*
 Effective power *32.0 H.P.*
 Diameter of Screw (or Paddle Wheels) *12 feet*
 Pitch of Screw *16.0"*
 No. of Blades (or Vanes) *4*
 Description of Screw (or Paddle) *Loose Blades*
 Holding down Bolts, size *1 1/2 dia*
 „ present condition *new*

Bilge Pumps, No. (*2*) and size *5" dia*
 Feed „ No. (*2*) and size *5" dia*
 Spare gear, if usual quantity on board Vessel *usual supply*
 Fuel, where stowed *Side of Boiler. Fore & Aft*
 „ space between Coal Bunkers and Boilers *9"*
 „ for what quantity is space provided *about 180 tons*
 Donkey Engine and Boiler *yes*
 „ if fitted in Engine Room or on Deck *Boiler on Deck*
 „ can pump be worked by hand *yes*
 „ size of pump (*5"*) and stroke *4" Double Acting*
 „ 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.

*The Boiler of the Multitubular Principal with
3 Furnaces and Fired at the Fore End*

BOILER, maker of *Martin Samuelson Hull*
 „ age of *new*
 „ when last taken out
 „ present condition *new*
 „ working pressure *about 65 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 *3 feet*
 What clear space between Funnel and woodwork *2 feet*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *42.0"* diameter *4"* Tunnel thickness of plating *3/16"* height *5'0"*
 width *4'0"* if water-tight door on Engine Bulkhead. *yes*

Port *Sunderland* 4th day of *August* 1873

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Almeria* belonging to *James Hunter* whereof *is* Master, Tons Register, and *90* H.P. have been carefully inspected and examined by *us* at *Sunderland* and *we* found the same, at this date, in good order and safe working condition.

Osbourne Graham & Co
James Hutchison
 Marine Engineer