

Iron 9579

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:—

Vessel building by M^r J. R. Thompson
 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

ENGINES, maker of *Geo Black*
 „ age of *new*
 „ last time taken out
 „ present condition
 Diameter of Cylinder *27 & 50 in*
 Length of stroke *30 in*
 No. per minute of Engines *at 65*
 „ of Screw
 Estimated power *98*
 Effective power *at 400*
 Diameter of Screw (or Paddle Wheels) *12.6 dia*
 Pitch of Screw *15.6*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Primary*
 Holding down Bolts, size *1 1/2 & 1 1/4 in*
 „ present condition

Bilge Pumps, No. (*2*) and size *4 1/4*
 Feed „ No. (*2*) and size *4 1/4*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *In Bunkers*
 „ space between Coal Bunkers and Boilers *12 in*
 „ for what quantity is space provided *180 Tons*
 Donkey Engine and Boiler *Yes*
 „ if fitted in Engine Room or on Deck *Engine room*
 „ can pump be worked by hand *separate hand pump*
 „ size of pump (*6*) and stroke *8*
 „ 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.

*2 Multi tubular - 2 Furnaces each, no superheating
 Fired from fore end*

BOILER, maker of *Geo Black*
 „ age of *new*
 „ when last taken out
 „ present condition
 „ working pressure *65 lbs*
 No. of surface Blow off Cocks to each Boiler *one surface one bottom*

Can each Boiler be used separately *Yes*
 What clear space between top of Boiler and woodwork *2 feet*
 What clear space between Funnel and woodwork *3 feet*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *8 ft 6 in* diameter *8 1/2 in* Tunnel, thickness of plating *3/16* height *4 feet 6 in*
 width *3.9* if water-tight door on Engine Bulkhead. *Yes*

Port *London* day of *December* 18 *78*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Celsus"* belonging to *J. M. Hall and Co* whereof *Geo. Waig* is Master, *655* Tons Register, and *98* H.P. have been carefully inspected and examined by *me* at *London* and *I* found the same, at this date, in good order and safe working condition.

Geo Black
 Engineer
 Marine Engineers.