

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.

*Combined high and low pressure direct acting inverted Cylinders
Engines with Screw Propeller, having one high pressure and one
low pressure Cylinders*

ENGINES, maker of *The Greenock Foundry Co.*
 „ age of *New*
 „ last time taken out _____
 „ present condition *New*
 Diameter of Cylinder *H.P. Cyl. 25 in L.P. Cyl. 50 in*
 Length of stroke *2 feet 6 in*
 No. per minute of Engines *40*
 „ of Screw *40*
 Estimated power *110 Horses*
 Effective power *440*
 Diameter of Screw (_____) *12 feet*
 Pitch of Screw *13 „ 6 in*
 No. of Blades (_____) *Two*
 Description of Screw (_____) *Common Screw*
 Holding down Bolts, size *1 1/4 in dia*
 „ present condition *New*

Bilge Pumps, No. (*one*) and size *5 1/4 in dia x 12 in Stroke*
 Feed „ No. (*one*) and size *5 1/4 „ x 12 „*
 Spare gear, if usual quantity on } *Yes*
 board Vessel }
 Fuel, where stowed *Engines Room Coal Bunkers*
 „ space between Coal Bunkers } *9 inches*
 and Boilers }
 „ for what quantity is space provided *109 tons*
 Donkey Engine and Boiler *Yes*
 „ if fitted in Engine Room or } *Engines room*
 on Deck }
 „ can pump be worked by hand *Yes*
 „ size of pump (*3 1/2*) and stroke *4 in Stroke*
 „ is hose of sufficient length to } *Yes*
 reach every part of the Vessel }
 No. (*one*) and continuation of hand } *Yes*
 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.

*One Cylindrical Boiler with Tubes, having three furnaces
and Steam Chest on top of the Boiler. Fired from fore end
of Boiler*

BOILER, maker of *The Greenock Foundry Co.*
 „ age of *New*
 „ when last taken out _____
 „ present condition *New*
 „ working pressure *70 lbs*
 No. of surface Blow off Cocks } *one*
 _____ Boiler }

Can ~~the~~ Boiler be used separately _____
 What clear space between top of } *14 feet*
 Boiler and woodwork }
 What clear space between Funnel } *2 „*
 and woodwork }
 Are Engine and Boiler Keelsons } *Yes*
 well connected fore and aft }

SCREW SHAFT length *70 feet* diameter *8 1/4 in* — Tunnel thickness of plating *1/4* height *6 ft 6 in*
 width *4 ft 0 in* if water-tight door on Engine Bulkhead. *No.*

Port *Greenock* 29 day of *January* 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood)
 Screw (or Paddle) Steam Vessel *"Porteus"* belonging to *St Johns Messrs*
 whereof *Mr Jones* is Master, *687* Tons Register, and *110* H.P. have been
 carefully inspected and examined by *us* at *467 Dundee* and *we* found the
 same, at this date, in good order and safe working condition.

The Greenock Foundry Co
per John Scott Jr
 Marine Engineers. *Perth*

Lloyd's Register
 Foundation

DUN107-0083