

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.
New

„ age of

„ last time taken out

„ present condition

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 in 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 in x 12 in

Spare gear, if usual quantity on
board Vessel

Yes

Fuel, where stowed

Engine Room Coal Bunkers

„ space between Coal Bunkers
and Boilers

9 inches

„ for what quantity is space provided

100 tons

Donkey Engine and Boiler

Yes

„ if fitted in Engine Room or
on Deck

Engine room

„ can pump be worked by hand

Yes

„ size of pump (*3 1/2 in*) and stroke

4 in Stroke

„ 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

Yes

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

~~each~~ Boiler

Can ~~each~~ Boiler be used separately

What clear space between top of
Boiler and woodwork

14 feet

What clear space between Funnel
and woodwork

2

Are Engine and Boiler Keelsons
well connected fore and aft

Yes

SCREW SHAFT length

70 ft

diameter *8 1/4 in*

Tunnel thickness of plating

1/4 in

height

6 ft 6 in

width

4 ft

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 Nephew*
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.
John Scott Jr
Marine Engineers. *Porteus*

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