

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. Compound. 2 Cylinders

ENGINES, maker of *Messrs J & S Thomson*
,, age of *New*
,, last time taken out *do*
,, present condition *do*
Diameter of Cylinder *43" x 76" dia*
Length of stroke *3' 6"*
No. per minute of Engines *55 to 60*
,, of Screw *do*
Estimated power *270*
Effective power *1200*
Diameter of Screw (or Paddle Wheels)
Pitch of Screw
No. of Blades (or Floats)
Description of Screw (or Floats) *Cast Iron*
Holding down Bolts, size *1 1/2" dia*
,, present condition *new*

Bilge Pumps, No. (*2*) and size *5" dia 21" Stroke*
Feed ,, No. (*2*) and size *4 1/2" dia 21" Stroke*
Spare gear, if usual quantity on }
board Vessel
Fuel, where stowed *alongside Engine room & Boilers*
,, space between Coal Bunkers } *12" inches*
and Boilers
,, for what quantity is space provided
Donkey Engine and Boiler *Yes*
,, if fitted in Engine Room or } *Engine Room*
on Deck
,, can pump be worked by hand *Yes*
,, size of pump () and stroke *5" dia 10" Stroke*
,, is hose of sufficient length to }
reach every part of the Vessel
No. (*1*) 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 force, or after end of Boiler, &c.

Two Round Tubular Boilers. Four furnaces in each. Fitted with Super heaters. Fired. Fore & Aft

BOILER, maker of *Messrs J & S Thomson*
,, age of *New*
,, when last taken out *do*
,, present condition *do*
,, working pressure *60 lbs*
No. of surface Blow off Cocks to } *1*
each Boiler

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

SCREW SHAFT length *24 feet* diameter *12 3/4"* Tunnel, thickness of plating
width if water-tight door on Engine Bulkhead. height

Port *Glasgow* 10 day of *July* 18 *72*

Me hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Panormos* belonging to *James Thomson & Co* whereof *H. Montechiano* is Master, *1530* Tons Register, and *270* H.P. have been carefully inspected and examined by *us* at *Glasgow* and *me* found the same, at this date, in good order and safe working condition.

Robert James Thomson
James Thomson & Co
Marine Engineers.

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