

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 *along side 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 of *Glasgow* th *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 *Furness & Co* whereof *A. Montechiano* is Master, *1530* Tons Register, and *270* H.P. have been carefully inspected and examined by *us* at *Glasgow* and *we* found the same, at this date, in good order and safe working condition.

Robert James Thomson
Furness & Co
 Marine Engineers.