

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.

John James

ENGINES, maker of *J. & J. Thomson*
 „ age of *New*
 „ last time taken out *“*
 „ present condition *“*
 Diameter of Cylinder *24" & 45"*
 Length of stroke *21" 6"*
 No. per minute of Engines
 „ of Screw
 Estimated power *90 H.P.*
 Effective power *about 480 H.P.*
 Diameter of Screw (or Paddle Wheels) *11" 0"*
 Pitch of Screw *15" 0"*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Cast Iron*
 Holding down Bolts, size *1 1/4"*
 „ present condition *New*

Bilge Pumps, No. (*1*) and size *5" X 16 1/2"*
 Feed „ No. (*1*) and size *3 3/4" X 16 1/2"*
 Spare gear, if usual quantity on }
 board Vessel }
 Fuel, where stowed *Along side on Engines & Boilers*
 „ space between Coal Bunkers } *and in front of Boilers*
 and Boilers } *8"*
 „ 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 (*2 1/2"*) and stroke *6"*
 „ is hose of sufficient length to }
 reach every part of the Vessel }
 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 force, or after end of Boiler, &c.

John James

BOILER, maker of *J. & J. Thomson*
 „ age of *New*
 „ when last taken out *“*
 „ present condition *“*
 „ working pressure *65 lbs*
 No. of surface Blow off Cocks to }
 each Boiler } *1*

Can each Boiler be used separately *On Boiler*
 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 *17' 11 3/4"* diameter *8 1/2"* Tunnel thickness of plating height *4' 0"*
 width *3' 2"* if water-tight door on Engine Bulkhead.

Port of *Hurgen* 13 day of *May* 1875

We hereby certify that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Sylphide* belonging to *Bergen* whereof *B. Vellisen* is Master, *509 1/2* Tons Register, and *90* H.P. have been carefully inspected and examined by us at *Hurgen* and we found the same, at this date, in good order and safe working condition.

John James Jameson
Funston & Co. Marine Engineers