

Report No. 3141

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.

Compound Engines with direct acting inverted Cylinders One High and one Low pressure

ENGINES, maker of Maier & Co
 age of New
 last time taken out _____
 present condition _____
 diameter of Cylinder 25½" x 51½"
 length of stroke 33"
 per minute of Engines about 65
 of Screw _____
 estimated power 99 H.P.
 effective power about 400 H.P.
 diameter of Screw (or Paddle Wheels) 12' 6"
 pitch of Screw about 14 ft
 of Blades (or Floats) 4
 description of Screw (or Floats) _____
 holding down Bolts, size 2½" diam
 present condition new

Bilge Pumps, No. (2) and size 3¾" diam
 Feed „ No. (2) and size 3¾" diam
 Spare gear, if usual quantity on board Vessel yes
 Fuel, where stowed in Bunkers
 „ space between Coal Bunkers and Boilers 12"
 „ for what quantity is space provided _____
 Donkey Engine and Boiler both below
 „ if fitted in Engine Room or on Deck _____
 „ can pump be worked by hand yes
 „ size of pump (7½) and stroke 9" double acting
 There is hose of sufficient length to reach every part of the Vessel deck
 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.

One Tubular Boiler with four furnaces fired from forward

BOILER, maker of Maier & Co
 age of New
 when last taken out _____
 present condition _____
 working pressure 65 lbs
 of surface Blow off Cocks to each Boiler 1 Surface & 1 Bottom
Blow off cock
 NEW SHAFT length 21 ft diameter 8½" Tunnel, thickness of plating _____
 width _____ if water-tight door on Engine Bulkhead.

Can each Boiler be used separately _____
 What clear space between top of Boiler and woodwork 2' 3"
 What clear space between Funnel and woodwork 2 ft
 Are Engine and Boiler Keelsons well connected fore and aft yes
 height _____

Port Whitby 19th day of April 1873

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Iron Steam Vessel "Ingles" belonging to Mr Hartland of James Luty is Master, 741 Tons Register, and 99 H.P. have been carefully inspected and examined by us at Whitby and we found the same, at this date, in good order and safe working condition.

For Blair & Co. Surveyors
W. Blair
 Lloyd's Register
 Marine Engineers.