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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, inverted, compound, surface condensing. two cylinders

ENGINES, maker of Thos Wingate & Co, age of new, last time taken out do, present condition do, Diameter of Cylinder 35 and 70, Length of stroke 39, No. per minute of Engines 50, of Screw 50, Estimated power 220, Effective power 1000, Diameter of Screw 16 ft, Pitch of Screw 24 ft, No. of Blades 4, Description of Screw Common, Holding down Bolts, size 1 1/8, present condition new

Bilge Pumps, No. (2) and size 5 inches, Feed, No. (2) and size 5 ins, Spare gear, if usual quantity on board Vessel Yes, Fuel, where stowed cross bunker wings of boiler space, space between Coal Bunkers and Boilers 2 feet, for what quantity is space provided 300 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 (5) and stroke 10 ins, is hose of sufficient length to reach every part of the Vessel Yes, No. (1) and continuation of hand pumps, if fitted in Engine Room Bilge & sea

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.

Three Boilers 10 feet diam - 12'-6" long, tubular, 9 furnaces (3 in each) no superheating apparatus, fired from fore end

BOILER, maker of Thos Wingate & Co, age of new, when last taken out do, present condition do, working pressure 70 lbs, No. of surface Blow off Cocks to each Boiler One, with main seacock

Can each Boiler be used separately Yes, What clear space between top of Boiler and woodwork 14 feet, What clear space between Funnel and woodwork 2 feet, Are Engine and Boiler Keelsons well connected fore and aft Yes

SCREW SHAFT length 130' diameter 12 1/2, Tunnel, thickness of plating 1/2, height 5 ft, width 3 ft if water-tight door on Engine Bulkhead. yes

Port Glasgow, 26 day of August 1872

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Louisiana" belonging to L. J. Moxrow & Others whereof Stewart is Master, Tons Register, and 220 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.

Thomas Wingate & Co Whiteinch, Glasgow Marine Engineers.