

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.

ENGINES, maker of David Rowan
 „ age of new
 „ last time taken out —
 „ present condition good
 Diameter of Cylinder 25 & 43 inches
 Length of stroke 36 inches
 No. per minute of Engines 67 revs-
 „ of Screw —
 Estimated power 90 HP
 Effective power 360
 Diameter of Screw (or Paddle Wheels) 12 feet 8 inches
 Pitch of Screw 15 feet
 No. of Blades (or Floats) —
 Description of Screw (or Floats) Cast Iron Propeller
 Holding down Bolts, size inch bolts
 „ present condition good

Bilge Pumps, No. (1) and size 3 1/2 diam 18 in Stroke
 Feed „ No. (1) and size do do
 Spare gear, if usual quantity on board Vessel usual quantity
 Fuel, where stowed along side engine & Boiler
 „ space between Coal Bunkers and Boilers 6 inches
 „ for what quantity is space provided 120 Tons
 Donkey Engine and Boiler yes
 „ if fitted in Engine Room or on Deck Boiler on Deck engine in engine room
 „ can pump be worked by hand no
 „ size of pump (3 3/4) and stroke 9 inch stroke
 „ 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 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 fore, or after end of Boiler, &c.
one Cylindrical Boiler. Tubular 3 Furnaces - no superheating apparatus fired from forward aft

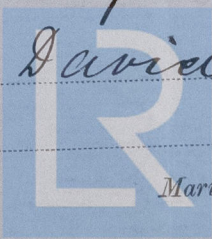
BOILER, maker of David Rowan
 „ age of new
 „ when last taken out —
 „ present condition good
 „ working pressure 76 lbs -
 No. of surface Blow off Cocks to each Boiler one

Can each Boiler be used separately —
 What clear space between top of Boiler and woodwork 2 ft 9 inches
 What clear space between Funnel and woodwork 2 ft 6 inches
 Are Engine and Boiler Keelsons well connected fore and aft yes

SCREW SHAFT length 76 feet diameter 8 inches Tunnel, thickness of plating 3/8 thick height 5 feet
 width 3 ft 7 in if water-tight door on Engine Bulkhead yes

Port Glasgow 18th day of June 1872

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel Puerto Rico belonging to — whereof — is Master, — Tons Register, and — H.P. have been carefully inspected and examined by me at Port Glasgow and I found the same, at this date, in good order and safe working condition.

David Rowan

 Lloyd's Register
 Marine Engineers.
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