

Report No. 3363

13376 Lm

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 Blair & Co Ltd, age of new, last time taken out, present condition, Diameter of Cylinder 25 1/2" & 51 1/2", Length of stroke 33", No. per minute of Engines about 65, of Screw, Estimated power 99 HP, Effective power about 400 HP, Diameter of Screw (or Paddle Wheels) 12' 6", Pitch of Screw about 14 ft, No. of Blades (or Floats) 4, Description of Screw (or Floats), Holding down Bolts, size 2 1/2" diam, present condition new

Bilge Pumps, No. (2) and size 3 1/2" diam, Feed, No. (2) and size 3 1/2" 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 200 tons, Donkey Engine and Boiler, if fitted in Engine Room or on Deck both below, can pump be worked by hand yes, size of pump (7 1/2") and stroke 9" double acting, there is hose of sufficient length to reach every part of the Vessel yes, 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 fore, or after end of Boiler, &c.

One Tubular Boiler with four furnaces fired from forward

BOILER, maker of Blair & Co Ltd, age of new, when last taken out, present condition, working pressure 65 lbs, No. of surface Blow off Cocks to each Boiler Surface & 1 Bottom blow off cock, SCREW SHAFT length 21 ft diameter 8 1/2", Tunnel thickness of plating 4/16", height 4' 6", width 3' 2" if water-tight door on Engine Bulkhead. yes

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' 3", Are Engine and Boiler Keelsons well connected fore and aft yes

Port Stockton 28 day of September 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Unity" belonging to Messrs. Harman & Co. whereof Brockett is Master, 1637 Tons Register, and 99 H.P. have been carefully inspected and examined by us at Stockton on Tees and we found the same, at this date, in good order and safe working condition.

J. Blair & Co. Ltd, J. Blair



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