

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 25½" & 51½"
 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) 14
 Description of Screw (or Floats) _____
 Holding down Bolts, size 2½" diam
 „ present condition new

Bilge Pumps, No. (2) and size 3½" diam
 Feed „ No. (2) and size 3½" diam
 Spare gear, if usual quantity on }
 board Vessel } yes
 Fuel, where stowed in Bunkers
 „ space between Coal Bunkers } 12"
 and Boilers }
 „ for what quantity is space provided 200 tons
 Donkey Engine and Boiler _____
 „ if fitted in Engine Room or } both below
 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 } check
 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 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 } Surface & 1 Bottom
 each Boiler } blow off cock
 SCREW SHAFT length 21 ft diameter 8½" 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 } 2' 3"
 Boiler and woodwork }
 What clear space between Funnel } 2' 3"
 and woodwork }
 Are Engine and Boiler Keelsons } yes
 well connected fore and aft }

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. Hamming & Co.
 whereof Brookitt 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

Marine Engineers.

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Lloyd's Register
Foundation