

S.S. "John Vaughan" Report No 2846  
 LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.  
 8217  
 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 into two cyls direct acting inverted

ENGINES, maker of Blair & Co Ltd  
 ,, age of new  
 ,, ~~last time taken out~~  
 ,, ~~present condition~~  
 Diameter of Cylinder 22 1/2 & 4 1/2 each  
 Length of stroke 30 inches  
 No. per minute of Engines 70  
 ,, of Screw  
 Estimated power 70 H.P.  
 Effective power 280 u u  
 Diameter of Screw (or Paddle Wheels) 11ft  
 Pitch of Screw 14ft  
 No. of Blades (or Floats) 4 blades  
 Description of Screw (or Floats)  
 Holding down Bolts, size 2 inches  
 ,, present condition new  
 Are the shut-off valves or cocks of all openings for the inlet or outlet of water in connection with the Engines & Boilers fitted close to the ship's sides, and are they accessible at all times? yes

Bilge Pumps, No. ( 1 ) and size 3 1/2 diam 1/2  
 Feed ,, No. ( 1 ) and size " "  
 Spare gear, if usual quantity on board Vessel yes  
 Fuel, where stowed In Bulk Rm  
 ,, space between Coal Bunkers and Boilers 12 inches  
 ,, for what quantity is space provided 73 tons  
 Donkey Engine and Boiler Keel below and  
 ,, if fitted in Engine Room or on Deck Boiler on deck  
 ,, can pump be worked by hand yes  
 ,, size of pump ( 5 1/4 ) and stroke 8 inches  
 ,, is hose of sufficient length to throw water on  
 ,, 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 fore, or after end of Boiler, &c.

One Tubular boiler fired from aft into superheater 3 furnaces in boiler

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 one  
 Can each Boiler be used separately  
 What clear space between top of Boiler and woodwork 3' 6"  
 What clear space between Funnel and woodwork 2' 0"  
 Are Engine and Boiler Keelsons well connected fore and aft yes  
 SCREW SHAFT length 16-2 diameter 8 1/4 Tunnel, thickness of plating 1/4 height 4' 0"  
 width 3' 6" if water-tight door on Engine Bulkhead. yes

Port of Middlesbro 5<sup>th</sup> day of Aug 1870

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel John Vaughan belonging to C. G. Müller whereof John Walker is Master, 301.60 Tons Register, and 70 H.P. have been carefully inspected and examined by us at Middlesbro and we found the same, at this date, in good order and safe working condition.

Geo Blair & Co Ltd  
W Blair  
 Marine Engineers.

*Mason*



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