

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 & 42 each
 Length of stroke 30 inches
 No. per minute of Engines 70
 „ of Screw
 Estimated power 70 H.P.
 Effective power 280 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?

Bilge Pumps, No. (1) and size 3 1/2 diam
 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 Engine below and Boiler on deck
 „ if fitted in Engine Room or 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 with 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
 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

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

Port of Middlesbrough 5th day of Augth 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 Middlesbrough and we found the same, at this date, in good order and safe working condition.

Geo Blair & Co Ltd
G. W. Blair
 Marine Engineers.

W. H. W.



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