

Report No. 3294 In 12623
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 & 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) *14*
 Description of Screw (or Floats)
 Holding down Bolts, size *2 1/2" diam*
 „ present condition *new*

Bilge Pumps, No. (*2*) and size *3 3/4" diam*
 Feed „ No. (*2*) and size *3 3/4" 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
 Donkey Engine and Boiler *Engine below*
 „ if fitted in Engine Room or on Deck *Boiler on deck*
 „ 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 *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 force, 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 *70 lb*
 No. of surface Blow off Cocks to each Boiler *1 Surface & 1 Bottom blow off cock*
 SCREW SHAFT length *19 ft* diameter *8 3/4"*
 width if water-tight door on Engine Bulkhead.

Can each Boiler be used separately
 What clear space between top of Boiler and woodwork *3 ft*
 What clear space between Funnel and woodwork *2 ft*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*
 height

Port *Stockton* 11th day of *April* 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Marmora* belonging to *Mr. H. H. H. H. H.* whereof *Shannon* is Master, *606* 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.

Geo Blair & Co. Ltd
G. W. Blair

Marine Engineers.