

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 direct acting inverted with two cylinders.

ENGINES, maker of *Blackwood & Gordon*
 „ age of *New*
 „ last time taken out
 „ present condition *Good*
 Diameter of Cylinder *20 inches IPK 35" E*
 Length of stroke *24 inches*
 No. per minute of Engines *75*
 „ of Screw *75*
 Estimated power *60 horses*
 Effective power *280*
 Diameter of Screw (or Paddle Wheels) *9 ft 0 ins*
 Pitch of Screw *13 1/2*
 No. of Blades (or Floats) *Three*
 Description of Screw (or Floats) *Common*
 Holding down Bolts, size *1 1/4*
 „ present condition *Good*

Bilge Pumps, No. (*Two*) and size *2 3/4 diameters*
 Feed „ No. (*Two*) and size *2 3/4 do.*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *Along side of Boilers*
 „ space between Coal Bunkers and Boilers *5 inches*
 „ for what quantity is space provided *20 tons*
 Donkey Engine and Boiler *Donkey engine, no boiler*
 „ if fitted in Engine Room or on Deck
 „ can pump be worked by hand
 „ size of pump (*3*) and stroke *6 inches*
 „ is hose of sufficient length to reach every part of the Vessel *Yes*
 No. (*One*) and continuation of hand pumps, if fitted in Engine Room *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 round horizontal tubular boiler with two furnaces

BOILER, maker of *Blackwood & Gordon*
 „ age of *New*
 „ when last taken out
 „ present condition *Good*
 „ working pressure *60*
 No. of surface Blow off Cocks to each Boiler *one surface & one bottom*

~~Can each Boiler be used separately~~
 What clear space between top of Boiler and woodwork *8 inches*
 What clear space between Funnel and woodwork *9 inches*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *46 feet* diameter *6 inches* Tunnel, thickness of plating *1/4* height *Three feet*
 width *Three feet* if water-tight door on Engine Bulkhead. *Yes.*

Port of *Port Glasgow* day of *29th April* 18*75*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Anna Clara* belonging to *London* whereof *Burkill* is Master, *129* Tons Register, and *60* H.P. have been carefully inspected and examined by *us* at *Port Glasgow* and we found the same, at this date, in good order and safe working condition.

Blackwood & Gordon
Castle Buildings, Green, Glasgow
 Marine Engineers.