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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 *24" High Press 42" Low Pressure*
 Length of stroke *27"*
 No. per minute of Engines *80*
 „ of Screw *80*
 Estimated power *100*
 Effective power *400*
 Diameter of Screw (or Paddle Wheel) *11" 0"*
 Pitch of Screw *16" 0"*
 No. of Blades (or Floats) *Three*
 Description of Screw (or Floats) *Common*
 Holding down Bolts, size *1 1/2"*
 „ present condition *Good*

Bilge Pumps, No. (*Two*) and size *3" Diameter*
 Feed „ No. (*Two*) and size *3" do*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *Athwartship bunkers forward of Engines*
 „ space between Coal Bunkers and Boilers *no Bunkers next Boilers*
 „ for what quantity is space provided *50 Tons*
 Donkey Engine and Boiler *Yes*
 „ if Fitted in Engine Room or on Deck *in Engine room*
 „ can pump be worked by hand *no*
 „ size of pump (*3"*) and stroke *6"*
 „ is hose of sufficient length to reach every part of the Vessel *Yes*
 No. (*one*) and condition of hand pumps, if fitted in Engine Room *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.

Two Round Horizontal Tubular Boilers with two furnaces in each no Superheating Apparatus, fired from forward end

BOILER, maker of *Blackwood and Gordon*
 „ age of *New*
 „ when last taken out
 „ present condition *Good*
 „ working pressure *65 lbs*
 No. of surface Blow off Cocks to each Boiler *1 Surface & 1 Bottom blow off*

Can each Boiler be used separately *Yes*
 What clear space between top of Boiler and woodwork *36"*
 What clear space between Funnel and woodwork *12"*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *54 feet* diameter *7 1/4"* Tunnel, thickness of plating *3/16* height *3' 6"*
 width *3' 6"* if water-tight door on Engine Bulkhead *yes*

Port of *Port Glasgow* *14th* day of *August* 1872

hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Taknam*" belonging to *James Guthrie Esq* whereof *Dickie* is Master, Tons Register, and *100* 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.

Pro Blackwood & Gordon
Andrew McGeachan
 Marine Engineers.