

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE.

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.

Direct Acting Inverted Compound Surface condensing Engines 2 Cylinders

10842 Iron

ENGINES, maker of *Walker Henderson & Co.*
 , age of *New*
 , last time taken out
 , present condition
 Diameter of Cylinders *24" & 42"*
 Length of stroke *30" inches*
 No. per minute of Engines *72 Rev. per Min.*
 , of Screw *72*
 Estimated power *80 HP N.*
 Effective power *400 HP S.*
 Diameter of Screw (or Paddle Wheels) *11 ft.*
 Pitch of Screw *12 ft.*
 No. of Blades (or Floats) *4 Blades*
 Description of Screw (or Floats) *Ordinary*
 Folding down Bolts, size *1 1/4 inch diam.*
 , present condition *New*

Bilge Pumps, No. (*1*) and size *3 1/2" x 15" stroke*
 Feed , No. (*1*) and size *3 1/2" x 15" stroke*
 Spare gear, if usual quantity on board Vessel } *None*
 Fuel, where stowed *Sides of Engine & Boiler spaces*
 , space between Coal Bunkers and Boilers } *6"*
 , for what quantity is space provided *83 tons*
 Donkey Engine and Boiler *Engine 8" x 12"*
 , if fitted in Engine Room or on Deck } *In Engine Room*
 , can pump be worked by hand *No*
 , size of pump (*4 1/2*) and stroke *12"*
 , is hose of sufficient length to reach every part of the Vessel } *Yes*
 No. (*1*) and continuation of hand pumps, if fitted in Engine Room } *Yes*

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.

1 Round Flue & Tubular Boiler 3 Furnaces Round Steam Dome on Top of Boiler not superheating fired from forward end of Boiler

BOILER, maker of *Walker Henderson & Co.*
 , age of *New*
 , when last taken out
 , present condition
 , working pressure *65 lbs per sq. inch*
 No. of surface Blow off Cocks to each Boiler } *one*
 STEAM SHAFT length *21 ft* diameter *7/8* Tunnel, thickness of plating
 width if water-tight door on Engine Bulkhead. *Yes*

Can each Boiler be used separately
 What clear space between top of Boiler and woodwork } *4 ft 6"*
 What clear space between Funnel and woodwork } *2 ft 0"*
 Are Engine and Boiler Keelsons well connected fore and aft } *Yes*

Port *Port Glasgow* 19th day of *June* 18*73*

W. S. hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Thornham* belonging to *London* thereof *Charles Bennet* is Master, *1490* Tons Register, and *80* H.P. have been carefully inspected and examined by *us* at *Port Glasgow* and *us* found the same *is* date, in good order and safe working condition.

Do.
Do.
Do.
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Walker Henderson & Co.
Bishop St. Engineer & Register
 Marine Engineers.