

# 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*  
 To. per minute of Engines *72 Rev. per Min.*  
 , of Screw *72*  
 Estimated power *80 H.P.*  
 Effective power *400 H.P.*  
 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 1/2 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 *16"*  
 , 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*  
 , of surface Blow off Cocks to each Boiler *One*

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*

REW SHAFT length *21 ft* diameter *7/8* Tunnel, thickness of plating height  
 width if water-tight door on Engine Bulkhead. *Yes*

Port *Port Glasgow* 19<sup>th</sup> day of *Nov.* 18<sup>th</sup> *93.*

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

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