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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.

*Inverted Cylinder Direct Acting Surface Condenser
Compound Engines*

ENGINES, maker of *Londonderry & Co. Eng. & Shipbldg.*
 age of *New*
 last time taken out *—*
 present condition *New*
 diameter of Cylinder *46" x 82"*
 length of stroke *3' 9"*
 revolutions per minute of Engines *32*
 pitch of Screw *52*
 indicated power *400 horses*
 effective power *1650*
 diameter of Screw (or Paddle Wheels) *14' 6"*
 pitch of Screw *25 - 0"*
 number of Blades (or Floats) *4*
 description of Screw (or Floats) *Common*
 length of down Bolts, size *1 1/4"*
 present condition *New*

Bilge Pumps, No. (*2*) and size *8 diam. 10 1/2 stroke*
 Feed „ No. (*2*) and size *4" 1 1/4"*
 Spare gear, if usual quantity on board Vessel *yes*
 Fuel, where stowed *Side and fore & aft Bunkers*
 „ space between Coal Bunkers and Boilers *15"*
 „ for what quantity is space provided
 Donkey Engine and Boiler *Boiler in Stoketole*
 „ if fitted in Engine Room or on Deck *Engine in Engine Room*
 „ can pump be worked by hand *yes*
 „ size of pump () and stroke *10"*
 „ is hose of sufficient length to reach every part of the Vessel *yes*
 No. (*1*) and continuation of hand *To Boiler, Deck & Sea*
 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 fore, or after end of Boiler, &c.

*Two double ended Circular Boilers fixed fore & aft,
12 furnaces*

BOILER, maker of *Londonderry & Co. Eng. & Shipbldg.*
 age of *New*
 when last taken out *—*
 present condition *New*
 working pressure *40 lbs*
 surface Blow off Cocks to each Boiler *one*

Can each Boiler be used separately *yes*
 What clear space between top of Boiler and woodwork *6 ft*
 What clear space between Funnel and woodwork *3 ft*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SHAFT length *112 ft* diameter *13 1/2"* Tunnel, thickness of plating *5/16"* height *6 ft*
4' 6" if water-tight door on Engine Bulkhead. *no*

Port *Glasgow* Second day of *June* 18*93*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) *(or Paddle)* Steam Vessel *Virginia* belonging to *the State, being Steam Ship*
 of *Sadler* is Master, *1593.72* Tons Register, and *400* H.P. have been
 fully inspected and examined by *us* at *Glasgow* and *we* found the
 at this date, in good order and safe working condition.

*Londonderry & Co. Engineering
& Shipbuilding Co. Limited
Marine Engineers.*
Geo. H. Kelly