

15407 L

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.

Direct Acting Compound inverted cylinders (one high & one low pressure) with surface condenser

ENGINES, maker of *Mucard Donald & Co.*
 „ age of *New*
 „ last time taken out
 „ present condition
 Diameter of Cylinder *22" & 40"*
 Length of stroke *27 ins*
 No. per minute of Engines *75*
 „ of Screw
 Estimated power *70*
 Effective power *300*
 Diameter of Screw (~~or Paddle Wheels~~) *9.3"*
 Pitch of Screw *14.6"*
 No. of Blades (or Floats) *4*
 Description of Screw (~~or Floats~~) *Common*
 Holding down Bolts, size *1 1/8*
 „ present condition *New*

Bilge Pumps, No. (*1*) and size *3 1/2 ins*
 Feed „ No. (*1*) and size *"*
 Spare gear, if usual quantity on board Vessel *Usual quantity*
 Fuel, where stowed *Sides of boiler space*
 „ space between Coal Bunkers and Boilers *12 inches*
 „ for what quantity is space provided *bottoms*
 Donkey Engine and Boiler *Both*
 „ if fitted in Engine Room or on Deck *Engine room*
 „ can pump be worked by hand *Separate Deck Pump*
 „ size of pump (*3"*) and stroke *Is.*
 „ is hose of sufficient length to reach every part of the Vessel
 No. () and continuation of hand 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.

One round horizontal tubular boiler with three furnaces, two safety valves, water & steam gauges surface & bottom blow off & all necessary mountings. fired from after end of boiler

BOILER, maker of *Addison Hamilton & Barrie*
 „ age of *New*
 „ when last taken out
 „ present condition
 „ working pressure *65 lbs*
 No. of surface Blow off Cocks to each Boiler *one*

Can each Boiler be used separately
 What clear space between top of Boiler and woodwork *Iron deck.*
 What clear space between Funnel and woodwork
 Are Engine and Boiler Keelsons well connected fore and aft *Is.*

SCREW SHAFT length *63 feet* diameter *7 ins* Tunnel thickness of plating height
 width if water-tight door on Engine Bulkhead.

Port of *Greenock* 3rd day of *October* 18 *74*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel "*Bertha*" belonging to *H. P. Peligmann & Co.* whereof *John Campbell* is Master, *70* Tons Register, and *70* H.P. have been carefully inspected and examined by us at *Greenock* and we found the same, at this date, in good order and safe working condition.

Mucard Donald & Co.
 Marine Engineers.

Lloyd's Register
Foundation

120N 459-0019