

10789 *Iron*

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 Compound Engine, Direct Acting
one High Pressure & one Low pressure Cyl —*

ENGINES, maker of *Maudslay, Sons & Field*
 „ age of *Quite new*
 „ last time taken out
 „ present condition *Quite new*
 Diameter of Cylinder *High press. 36 - Low press. 60 in*
 Length of stroke *3.9*
 No. per minute of Engines *about 50*
 „ of Screw *about 50*
 Estimated power *200 H.P.*
 Effective power *900 H.P.*
 Diameter of Screw (or Paddle Wheels) *16.0*
 Pitch of Screw *19.0*
 No. of Blades (or Floats) *Four*
 Description of Screw (or Floats) *Cast iron with moveable blades*
 Holding down Bolts, size *1 1/2 in*
 „ present condition *Quite new*

Bilge Pumps, No. (*2.*) and size *6 1/2 in dia 12 strokes*
 Feed „ No. (*2.*) and size *5 in dia 20 strokes*
 Spare gear, if usual quantity on board Vessel *yes*
 Fuel, where stowed *at sides of Engines & Boilers*
 „ space between Coal Bunkers and Boilers *9 in*
 „ for what quantity is space provided *440*
 Donkey Engine and Boiler
 „ if fitted in Engine Room or on Deck *Ballast & Boiler Bunkers in Engine Room*
 „ can pump be worked by hand *Boiler Donkey Yes*
 „ size of pump (*6*) and stroke *10 in*
 „ is hose of sufficient length to reach every part of the Vessel *yes*
 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.

Double ended circular Boilers - Two in number, with return tubes over furnaces - Four furnaces in each Boiler, two at each end. No superheating apparatus fitted - Fired at fore and after ends of Boilers

BOILER, maker of *Maudslay, Sons & Field*
 „ age of *quite new*
 „ when last taken out
 „ present condition *quite new*
 „ working pressure *65 lbs*
 No. of surface Blow off Cocks to each Boiler *one*

Can each Boiler be used separately *yes*
 What clear space between top of Boiler and woodwork *5.6*
 What clear space between Funnel and woodwork *3.2*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

Screw Shaft length *110.0* diameter *10 3/4 - 11 1/2 in* Tunnel, thickness of plating *3/8* height *6.0*
 width *4.9* if water-tight door on Engine Bulkhead. *yes*

Port *Newcastle* day of *Nov* 18 *42*

we hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel *"Lisson"* belonging to *London* whereof *Brown* is Master, *1,440.00* Tons Register, and *200* H.P. have been carefully inspected and examined by *us* at *Newcastle* and *we* found the same, at this date, in good order and safe working condition.

Maudslay, Sons & Field

Marine Engineers.