

## 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 Engines, Direct Acting  
one High Pressure and one Low pressure Cyl*

ENGINES, maker of *Maudslays, Sons & Field*  
 „ age of *quite new*  
 „ last time taken out  
 „ present condition *quite new*  
 Diameter of Cylinder *38 High pres. & 70 Low pres.*  
 Length of stroke *4.0*  
 No. per minute of Engines *about 54*  
 „ of Screw *about 54*  
 Estimated power *300 Horses*  
 Effective power *1000 Horses*  
 Diameter of Screw (or Paddle Wheels) *16.0*  
 Pitch of Screw *20.0*  
 No. of Blades (or Floats) *4 Bladed*  
 Description of Screw (or Floats) *Cast iron with moveable blades*  
 Holding down Bolts, size *1.5 in*  
 „ present condition *quite new*

Bilge Pumps, No. ( *2* ) and size *6 1/2 di 13 stroke*  
 Feed „ No. ( *2* ) and size *5 di 21 stroke*  
 Spare gear, if usual quantity on board Vessel  
 Fuel, where stowed *Engine room & forward Bunker*  
 „ space between Coal Bunkers and Boilers *9 lead space*  
 „ for what quantity is space provided *500*  
 Donkey Engine and Boiler *Yes*  
 „ if fitted in Engine Room or on Deck *Ballast & Bilge Room*  
 „ can pump be worked by hand *Boiler Donkey Yes*  
 „ size of pump *1 1/2 di 10 inch* and stroke *4 x 8 inch*  
 „ 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.

*Double ended Circular Boilers. Two in number, with return tube over furnaces. Four furnaces in each Boiler, two at each end. No superheating apparatus fitted. Fired at fore & aft ends of Boilers.*

BOILER, maker of *Maudslays, Sons & Field*  
 „ age of *quite new*  
 „ when last taken out  
 „ present condition *quite new*  
 „ working pressure *7.5 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 *4.9*  
 What clear space between Funnel and woodwork *3.8 lead*  
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *120.0* diameter *1 1/4* Stem shaft *12 1/2* Tunnel, thickness of plating  
 width *5.5* if water-tight door on Engine Bulkhead *Yes*

height *6.0*

Port *Newcastle* day of *Jan* 18 *73*.

*we* hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (or Paddle) Steam Vessel "*Kanstein*" belonging to *London* whereof *R. Mc Rabb* is Master, *1029.87* Tons Register, and *300* H.P. have been carefully inspected and examined by *us* at *Liverpool* and *we* found the same, at this date, in good order and safe working condition.

*Maudslays, Sons & Field*  
*Ldms*

Marine Engineers.

Rankin

Maudslayi



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