

10913 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.

Direct acting Inverted Cylinder Engines
Two Cylinders

ENGINES, maker of *William King & Co*
 „ age of *New*
 „ last time taken out *—*
 „ present condition *New*
 Diameter of Cylinder *15 inches*
 Length of stroke *16 inches*
 No. per minute of Engines *100*
 „ of Screw *100*
 Estimated power *20 H.P.*
 Effective power *70 H.P.*
 Diameter of Screw (~~or Paddle Wheels~~) *7 feet*
 Pitch of Screw *8 1/2 inches*
 No. of Blades (~~or Floats~~) *Three*
 Description of Screw (~~or Floats~~) *Common*
 Holding down Bolts, size *1"*
 „ present condition *New*

Bilge Pumps, No. (*1*) and size *1 7/8"*
 Feed „ No. (*1*) and size *1 7/8"*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *Bunkers*
 „ space between Coal Bunkers and Boilers *8"*
 „ for what quantity is space provided *20 tons*
 Donkey Engine ~~1 Boiler~~ *Yes*
 „ if fitted in Engine Room or on Deck *Engine Room*
 „ can pump be worked by hand *Yes.*
 „ size of pump (*1 7/8"*) and stroke *10 1/2"*
 „ 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 *One*

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.

One Horizontal tubular boiler with two furnaces
fired forward

BOILER, maker of *William King & Co*
 „ age of *New*
 „ when last taken out *—*
 „ present condition *New*
 „ working pressure *30 lb*
 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 *all iron*
 What clear space between Funnel and woodwork *all iron*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *13.6* diameter *4 1/2* Tunnel, thickness of plating *—* height *—*
 width *—* if water-tight door on Engine Bulkhead. *—*

Port *Glasgow* *13th* day of *December* 18 *72*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel *Namagua* belonging to *James Watson & Co* whereof *C. Gibson* is Master, *45.63* Tons Register, and *20* H.P. have been carefully inspected and examined by *us* at *Glasgow* and *We* found the same, at this date, in good order and safe working condition.

William King & Co
Dock Engine Works Glasgow
 Marine Engineers.