

13535 *Ln*

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, direct-acting, Compound, Surface-condensing
Screw Engines. 2 cylinders*

ENGINES, maker of *R & W. Hawthorn*

„ age of *New*

„ last time taken out

„ present condition

Diameter of Cylinder *52" H.P. 96" L.P.*

Length of stroke *4' 3"*

No. per minute of Engines *50*

„ of Screw *50*

Estimated power *450 H.P. Nominal*

Effective power *2000*

Diameter of Screw (or Paddle Wheels) *20' 0"*

Pitch of Screw *22 ft at base, increasing to 26 ft at crown*

No. of Blades (or Floats) *4*

Description of Screw (or Floats) *Right handed, moveable blades*

Holding down Bolts, size *1 1/2" dia*

„ present condition *New*

Bilge Pumps, No. (*2*) and size *6 1/2" dia. 18" Stroke*

Feed „ No. (*2*) and size *8 1/2" - 13 1/4"*

Spare gear, if usual quantity on board Vessel *Yes*

Fuel, where stowed *In bunkers athwartships*

„ space between Coal Bunkers and Boilers *8' 6"*

„ for what quantity is space provided *1000 Tons*

Donkey Engine and Boiler *Yes*

„ if fitted in Engine Room or on Deck *Donkey in Eng. room. Boiler in Stowage*

„ can pump be worked by hand *Yes*

„ size of pump *Feed 6" and stroke 12"*

„ 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.

*3 Cylindrical, double-ended, multitubular boilers. 6 furnaces in each.
Fitted with Superheating apparatus & fired fore & aft.*

BOILER, maker of *R & W. Hawthorn*

„ age of *New*

„ when last taken out

„ present condition

„ working pressure *70 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 *7' 3"*

What clear space between Funnel and woodwork *3' 0"*

Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *124 ft.* diameter

width *4' 6"* if water-tight door on Engine Bulkhead. *Yes*

Tunnel thickness of plating *3/8* height *6' 9"*

Port *Newcastle* *4th* 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 "*St Onytha*" belonging to *London* whereof *R. Mc Nab* is Master, 2296.32 Tons Register, and 450 H.P. have been carefully inspected and examined by us at *Newcastle on Tyne* and we found the same, at this date, in good order and safe working condition.



Marine Engineers.

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Foundation

IRON 459-0172