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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 Cylinder

ENGINES, maker of Maudslay Sons & Field
,, age of Quite new
,, last time taken out
,, present condition
Diameter of Cylinders High Pressure 36 inches, Low Pressure 60 inches
Length of stroke 3 Feet 9 inches
No. per minute of Engines about 60
,, of Screw about 60
Estimated power 200 Horses
Effective power 1000 Horses
Diameter of Screw (~~or Paddle Wheels~~) 16 Feet
Pitch of Screw 19 Feet
No. of Blades (~~or Floats~~) Four
Description of Screw (~~or Floats~~) Cast Iron with moveable blades
Holding down Bolts, size 1½ Inch
,, present condition Quite new

Bilge Pumps, No. (Two) and size 6½ Inches diam
Feed ,, No. (Two) and size 5 Inches diam
Spare gear, if usual quantity on board Vessel: Yes
Fuel, where stowed Engine Room and Forward Bunkers
,, space between Coal Bunkers and Boilers: 9 inches least space
,, for what quantity is space provided 400 Tons
Donkey Engine and Boiler
,, if fitted in Engine Room or on Deck: Donkey Engine in Engine Room
,, can pump be worked by hand Yes
,, size of pump (4½ inch) and stroke 9 inches
,, is hose of sufficient length to reach every part of the Vessel: Yes
No. ( ) 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.

Two Cylindrical Tubular Boilers with Furnaces at each end, tubes returning over Furnaces, Iron Boilers with iron Tubes. Four Furnaces in each Boiler. No Superheating apparatus fitted. Boilers fired at forward and after ends.

BOILER, maker of Maudslay Sons and Field
,, age of Quite new
,, when last taken out
,, present condition
,, working pressure 75 lbs. per sqr. inch
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 Feet 6 Inches
What clear space between Funnel and woodwork: 3 Feet 6 Inches
Are Engine and Boiler Keelsons well connected fore and aft: Yes

Screw Shaft length 119 Feet diameter 10¾ ~~or~~ 11½ inch Tunnel, thickness of plating 3/8 height 6 Feet width 4 Feet 9 inches if water-tight door on Engine Bulkhead. Yes

Port Newcastle on Tyne 3rd day of March 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel "Arratoon Apcar" belonging to London whereof Mr Jacob is Master, 1392-00 Tons Register, and 200 H.P. have been carefully inspected and examined by us at above port and we found the same, at this date, in good order and safe working condition.

Maudslay Sons & Field
London
Marine Engineers.

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IRON456-0328