

55 Newburn

10905 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.

Two Inverted, direct acting, screw engines, one cylinder each engine now altered & fitted with Low face Condenser, etc.

ENGINES, maker of George Clark & Co.
age of 11 years
present condition Almost new
Diameter of Cylinder 38" dia
Length of stroke 26" stroke
No. per minute of Engines 64 rev
of Screw 64 rev
Estimated power 90 H.P.
Effective power 405 H.P.
Diameter of Screw (Paddle Wheels) 11-7" dia
Pitch of Screw 16 ft.
No. of Blades (Blades) 3 Blades
Description of Screw (Screws) Common
Holding down Bolts, size 2" dia
present condition Good

Bilge Pumps, No. (2) and size 4 1/2" dia
Feed No. (2) and size 4 1/2" dia
Spare gear, if usual quantity on board Vessel Yes
Fuel, where stowed in side Bunkers
space between Coal Bunkers and Boilers least space 4"
for what quantity is space provided 80 tons.
Donkey Engine and Boiler Yes
if fitted in Engine Room or on Deck Engine Room
can pump be worked by hand Yes
size of pump () and stroke 3"
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.

Two cylindrical, multitubular Boilers, with two furnaces in each Boiler, & fired from fore end, & fitted with an annular Superheater at base of Funnel.

BOILER, maker of Victoria Dock Engine Works Ltd.
age of new
when last taken out
present condition new
working pressure 35 lbs
No. of surface Blow off Cocks to each Boiler one
SCREW SHAFT length 11-3 1/4 diameter 7 3/4" dia
width if water-tight door on Engine Bulkhead.

Can each Boiler be used separately Yes
What clear space between top of Boiler and woodwork 6 feet.
What clear space between Funnel and woodwork 2 feet
Are Engine and Boiler Keelsons well connected fore and aft Yes

Port London 9th day of December 1872

I hereby certify that the whole of the above Machinery and Boilers of the Iron (Wood) Screw (Paddle) Steam Vessel Newburn belonging to London whereof David Aitken is Master, 529 2/100 Tons Register, and 90 H.P. have been carefully inspected and examined by me at Victoria Dock London and I found the same, at this date, in good order and safe working condition.

M. Victoria Dock Engine Works Ltd.
C. Emirch
Lloyd's Register
Marine Engineers
Foundation