

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.

The engines are inverted direct-acting compound with surface condenser, one high & one low pressure cylinder.

ENGINES, maker of Palmers Shipbuilding & Iron Co. Ltd.
age of new
last time taken out
present condition new
Diameter of Cylinder 30 & 60.
Length of stroke 33.
No. per minute of Engines 70
of Screw 70
Estimated power 140
Effective power 700
Diameter of Screw (or Paddle) 15.0
Pitch of Screw 15.0 increasing to 15.6
No. of Blades (or Paddles) 4
Description of Screw (or Paddles) movable steel blades
Holding down Bolts, size 2 1/2 dia
present condition new

Bilge Pumps, No. (2) and size 4 dia 16 stroke
Feed ,, No. (2) and size 4 - 16 -
Spare gear, if usual quantity on board Vessel } yes
Fuel, where stowed In side & cross bunkers
space between Coal Bunkers and Boilers } 12.
for what quantity is space provided 220 tons
Donkey Engine and Boiler yes.
if fitted in Engine Room or on Deck Donkey in engine room Boiler in donkey in engine room
can pump be worked by hand yes
size of pump (4) and stroke 8 -
is hose of sufficient length to reach every part of the Vessel } yes
No. () and continuation of hand pumps, if fitted in Engine Room } none

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 tubular Boilers with four circular furnaces dry uptake and an annular vertical superheater round base of Funnel. The boilers are fired from forward.

BOILER, maker of Palmers Shipbuilding & Iron Co. Ltd.
age of new
when last taken out
present condition new
working pressure 75 lbs per sq. in.
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 } 10.0
What clear space between Funnel and woodwork } 2.3
Are Engine and Boiler Keelsons well connected fore and aft } yes

SCREW SHAFT length 111.8 diameter 9 & 9 1/2 Tunnel thickness of plating 5/16 x 3/8 height 4.1 & 5.3
width 3.7 if water-tight door on Engine Bulkhead. no, the tunnel is watertight.

Port Newcastle on Tyne, 29 day of July 1874.

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Royal Crown" belonging to London whereof Reed is Master, 1176.94 Tons Register, and 140 H.P. have been carefully inspected and examined by us at Larrow on Tyne and we found the same, at this date, in good order and safe working condition.

Palmers Shipbuilding & Iron Co. Ltd.
Marine Engineers.

