

10506

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, and now fitted with surface condenser, & arranged to work on the compound principle, having one high & one low pressure cylinder.

ENGINES, maker of *R. & W. Hawthorn Newcastle* Bilge Pumps, No. (*2*) and size *4 diam 18 stroke*
 „ age of *Built 1866* Feed „ No. (*2*) and size *4 - 18*
 „ last time taken out *next part taken out 1872* Spare gear, if usual quantity on board Vessel *yes.*
 „ present condition *In thorough repair* Fuel, where stowed *In side bunkers*
 Diameter of Cylinder *25 & 43* „ space between Coal Bunkers and Boilers *10*
 Length of stroke *30* „ for what quantity is space provided *90 tons*
 No. per minute of Engines *70 revs* Donkey Engine and Boiler *are both provided*
 „ of Screw *70* „ if fitted in Engine Room or on Deck *Donkey in Engine Room, Boiler on Deck.*
 Estimated power *140 HP nom* „ can pump be worked by hand *yes*
 Effective power *400 76P indicate* „ size of pump () and stroke *Also a Ballast donkey in Engine room*
 Diameter of Screw (~~Paddle Wheels~~) „ is hose of sufficient length to reach every part of the Vessel *yes*
 Pitch of Screw „ No. () and continuation of hand pumps, if fitted in Engine Room *none*
 No. of Blades (~~or Floes~~) *4*
 Description of Screw (~~Floes~~) *fixed blades.*
 Holding down Bolts, size „ present condition *good.*

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 above uptake round base of Funnel. The Boilers are fired from their forward ends.

BOILER, maker of *Palmer Shipbuilding & Iron Co. Ltd* Can each Boiler be used separately *yes*
 „ age of *new* What clear space between top of Boiler and woodwork *11.0*
 „ when last taken out *-* What clear space between Funnel and woodwork *1.6*
 „ present condition *-* Are Engine and Boiler Keelsons well connected fore and aft *yes.*
 „ working pressure *75 lbs.*

No. of surface Blow off Cocks to each Boiler *one*

CREW SHAFT length *The Engines are etc.* diameter

Tunnel, thickness of plating

height

width

if water-tight door on Engine Bulkhead.

Port *Newcastle on Tyne* 16th day of *August* 1872

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~)
 crew (~~or Paddle~~) Steam Vessel *"Palmyra"* belonging to *London*
 crew of *10* is Master, *706.00* Tons Register, and *140* H.P. have been
 fully inspected and examined by us at *Larrow on Tyne* and we found the
 e, at this date, in good order and safe working condition.

Palmer Shipbuilding & Iron Co. Ltd
Thos. Leitch
 Marine Engineers