

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 directacting compound with Surface Condenser and two Cylinders.

ENGINES, maker of	Palmer's Shipbuilding new & Iron Co. Ltd	Bilge Pumps, No. (2) and size	6 diam 7 1/2 stroke
" age of		Feed " No. (2) and size	5 " 10 "
" last time taken out		Spare gear, if usual quantity on board Vessel	yes
" present condition		Fuel, where stowed	In Sea bunkers
Diameter of Cylinder	30 & 55.	" space between Coal Bunkers and Boilers	14
Length of stroke	33	" for what quantity is space provided	129 tons
No. per minute of Engines	70 revolution	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	190 HP nominal	" can pump be worked by hand	yes
Effective power	675 HP indicated	" size of pump (4) and stroke	8
Diameter of Screw (on Paddle Wheels)	13. 6	" is hose of sufficient length to reach every part of the Vessel	yes
Pitch of Screw	15. 0 increasing to 17. 0	No. () and continuation of hand pumps, if fitted in Engine Room	none
No. of Blades (on Floats)	4		
Description of Screw (on Floats)	moveable blades		
Holding down Bolts, size	2 1/2 diam		
" present condition			

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 four circular Furnaces, dry uptake and an annular vertical Superheater round base of Funnel. The boilers are fired from their forward Ends.

BOILER, maker of	Palmer's Shipbuilding new & Iron Co. Ltd	Can each Boiler be used separately	yes
" age of		What clear space between top of Boiler and woodwork	10. 0
" when last taken out		What clear space between Funnel and woodwork	1. 9
" 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		

SCREW SHAFT length 33. 7 diameter 9 & 9 1/2 Tunnel, thickness of plating height
width if water-tight door on Engine Bulkhead. No Tunnel; the space in which
the shafting works forms part of Engine room as far aft as Stern tube
bulkhead.

Port Newcastle on Tyne 24th day of May 1872

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~on Wood~~)
Screw (~~on Paddle~~) Steam Vessel "Mareppa" belonging to London
hereof G. J. Martin is Master, 922. 07 Tons Register, and 190 H.P. have been
carefully inspected and examined by us at Jarrow on Tyne and we found the
same, at this date, in good order and safe working condition.

for Palmer's Shipbuilding & Iron Co. Ltd

John Smith
Marine Engineers.