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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.

The Engines are inverted direct acting, and now fitted with Surface condensers & arranged to work as compound engines, having one high & one low pressure cylinder.

ENGINES, maker of	R & W. Hawthorn Newcastle	Bilge Pumps, No. (2) and size	-
„ age of	Built 1863	Feed „ No. (2) and size	-
„ last time taken out	Most parts 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	26 & 51	„ space between Coal Bunkers and Boilers	9'
Length of stroke	30	„ for what quantity is space provided	73 tons
No. per minute of Engines	70 revol	Donkey Engine and Boiler	-
„ of Screw	70	„ if fitted in Engine Room or on Deck	Donkey in Engine room
Estimated power	160 HP nom	„ can pump be worked by hand	yes
Effective power	450 HP indic	„ size of pump (4) and stroke	8'
Diameter of Screw (or 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 Floats)	-		
Description of Screw (or Floats)	Fixed blades		
Holding down Bolts, size	-		
„ present condition	good		

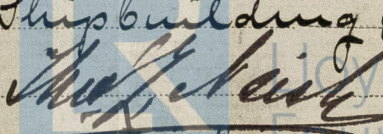
BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired athwartships, or from fore, or after end of Boiler, &c.

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 end.

BOILER, maker of	Palmer's Shipbuilding & Iron Co. Ltd	Can each Boiler be used separately	yes
„ age of	new	What clear space between top of Boiler and woodwork	8' 9"
„ when last taken out	-	What clear space between Funnel and woodwork	2' 4"
„ 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	37' 6"	diameter	
width		Tunnel, thickness of plating	height
		if water-tight door on Engine Bulkhead.	

Port Newcastle on Tyne 21st day of June 1872.

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel Aurora belonging to London whereof Badcock is Master, 446 Tons Register, and 160 H.P. have been carefully inspected and examined by us at Garrow on Tyne and we found the same, at this date, in good order and safe working condition.

for Palmer's Shipbuilding & Iron Co. Ltd

 Marine Engineers.