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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 compound with surface condenser, one high & one low pressure cylinder.

ENGINES, maker of	Palmer's Shipbuilding & Iron Co. Ltd.	Bilge Pumps, No. (2) and size	4 1/2" diam, 18" stroke
„ age of	new	Feed „ No. (2) and size	4 1/2" „ 18" stroke
„ last time taken out	—	Spare gear, if usual quantity on board Vessel	yes
„ present condition	new	Fuel, where stowed	In side & cross bunkers
Diameter of Cylinder	30 1/2" x 61.	„ space between Coal Bunkers and Boilers	17"
Length of stroke	36"	„ for what quantity is space provided	196 tons
No. per minute of Engines	66	Donkey Engine and Boiler	yes
„ of Screw	66	„ if fitted in Engine Room or on Deck	Donkey in Engine room
Estimated power	150 HP nom	„ can pump be worked by hand	Boiler in Fore hold
Effective power	700 „ indicated	„ size of pump (4") and stroke	8" also a ballast donkey in Engine room.
Diameter of Screw (or Paddle Wheels)	15.0	„ is hose of sufficient length to reach every part of the Vessel	yes
Pitch of Screw	14.6" increasing to 17.0"	No. () and continuation of hand pumps, if fitted in Engine Room	none
No. of Blades (or Paddles)	4		
Description of Screw (or Paddles)	movable steel blades		
Holding down Bolts, size	1 1/2" x 2 1/2"		
„ present condition	new		

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.

There are 2 cylindrical tubular single end boilers with 6 furnaces (circular), dry uptake with a vertical annular superheater on top. The boilers are fired from forward

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	2.1 1/2"
„ present condition	new	Are Engine and Boiler Keelsons well connected fore and aft	yes.
„ working pressure	75 lbs per square inch		
No. of surface Blow off Cocks to each Boiler	on		
SCREW SHAFT length	111.8"	diameter	10" x 10 1/2"
width	3.9"	Tunnel thickness of plating	5/16" & 3/8"
		height	4.1" to 5.6"
		if water-tight door on Engine Bulkhead.	no, the tunnel is water tight

Port Newcastle on Tyne 24th day of November 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Trident" belonging to London whereof Reid is Master, 160 7/8 Tons Register, and 150 H.P. have been carefully inspected and examined by us at Farrow on Tyne and we found the same, at this date, in good order and safe working condition.

FOR Palmer's Shipbuilding & Iron Company Limited
Mr. L. Neish
Marine Engineers.



Lloyd's Register Foundation

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