

S.S. "Saxon Monarch" 22647
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted Surface Condensing*
 Made by *Blair & Co. (Lm)*
 When *January 1879* At *Stockholm on Ves*
 Diameter of cylinder *32 x 60* Length of stroke *39*
 No. of revolutions per minute *About 60*
 Point of cut off *1/2 stroke*
 Diameter of screw shaft *1 1/2"*
 Diameter of crank shaft journals *11" Tunnel shaft 10"*
 Diameter of screw, or of paddle wheel *14.6"*
 Pitch of screw *About 16.0"*
 No. of blades, *4* Total surface *Not ascertained*
 No. of bilge pumps *2* and sizes *4" x 28" stroke Single Act*
 Do they pump from each compartment *Forst pump draws from aft ballast tank
 any one room, after well - for
 after pump draws from after well*

Are all the bilge suction pipes fitted with roses *Yes*

No. of feed pumps *2* and sizes *4 x 28 5th* *Single Acting*

What gauges are there attached to the engines and boilers ... } *3 Steam*
1 Vacuum

Description and size of Donkey Pumps ... *2 10 1/2 x 9 3/4 Double Acting*
2 10 2 x 8
2 10 1/2 pumps from all ballast tanks, engine room, after well & fore hold, 2 10 2 pumps from sea, hot well, ballast tanks & engine room

Where do they pump from ... *See above*

No. of bilge injections *1* and sizes *6"*

Are they connected to air, or circulating pumps *Circulating Pump*

Is there a hand pump in the engine room *Donkeys work by hand*

Can it be worked by the main engines *No*

Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*
Engine room

MAIN BOILERS.

Number *Two* Description *Cylindrical Multitubular*
Made by *Blair & Co. (Lm)*
When *January 1899* At *Stockton on Tus*
Working pressure *44 lbs per sq in.*
Tested by hydraulic pressure to *154 lbs per sq in.*
Test Certificate No. 134 *Sept 20/11/98*
Description of super-heating }
apparatus } *None*
Can each boiler be worked separately *Yes*

Can the super-heater be shut off and } *No Superheater*
the boilers worked separately }
Description and area of *Two spring valves on each boiler*
safety valves on each }
boiler *Combined area of two valves 192 sq in*
No. of square feet of fire-grate } *32.08*
surface in each boiler }
Are there separate blow off and } *Yes*
brine cocks on each boiler, }
independent of those }
on the vessel's skin }
Are all pipes, cocks, roses, and pumps in } *All except suction pipes & placed in*
connection with the machinery ac- }
cessible at all times. *Holds when ship is loaded*

DONKEY

DONKEY
 Description *Vertical Water tubes in furnace*
 Where fixed *In Stokerhole*
 Working pressure *40 lbs per sq inch*

BOILER Made by *H. Poffin Strickton on Dies*
 Tested by hydraulic pressure to *144 lbs per sq in* Date *29/10/8*
No of Test Certificate 1441
 Description and area of safety valves *1 direct 2 5/8 dia } = 10.8 sq in*
1 lever 2 5/8
 No. of square feet of fire grate *19.63 sq in.*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea } direct on the skin of the ship }	<i>Yes</i>
Are they Kingston valves } or common cocks ... }	<i>Stop valves and Cocks</i>
Are they fixed sufficiently high on } the ship's side to be seen } without lifting the stoke hold } plates	<i>Yes</i>
Are the discharge pipes above or } below the deep water line }	<i>Below</i>
Are they each fitted with a discharge } valve on the plating of the vessel }	<i>Yes</i>

What pipes are carried through the bunkers	None
How are they protected	"
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock	New
Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge	Yes
Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead	Tunnel not watertight

Geo Blair Theo & A
S. G. Blair

Manufacturers of Engines & Main Boilers only

I hereby certify that the sample of the above are correct particulars of the Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel Saxon Monarch owned by John Patton & Co of the Port of London of 1141 Tons Register, and 160 Registered Horse Power, and that they have been carefully inspected and examined by me at Stockton on Tees and found to be at this date, viz., 8th January 1879 in good order and safe working condition.

Amount of Fee for Survey _____
 Certificate _____
 Selling Expenses, if any, £ _____

Engineer Surveyor to Lloyd's Register of Shipping.

West Hattlepool

IRON 482-0339

The Machinery and Boilers of this
vessel are fitted in accordance with
the Committee's requirements submitted
that she is eligible to have
Lloyd's M.C. and a surveying
certificate Jan. 8th July 1879.

M 31.1.79



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Foundation