

S.S. "Maharani" 23678 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description Compound Inverted Direct Acting
Made by David Rowan
When 18 79 At Glasgow
Diameter of cylinder 3 3/4 x 61 Length of stroke 45
No. of revolutions per minute about 65
Point of cut off
Diameter of screw shaft 12
Diameter of crank shaft journals 12
Diameter of screw, or of paddle wheel 15 1/2
Pitch of screw 18 1/2
No. of blades, Low Total surface 48 1/2
No. of bilge pumps Two and sizes 4 1/2 dia x 16 1/2 stroke
Do they pump from each compartment Yes
Are all the bilge suction pipes fitted with roses Yes
No. of feed pumps Two and sizes 4 1/2 dia x 9 1/2 stroke
What gauges are there attached to the engines and boilers ... Five Steam, One Vacuum + One Compound
Description and size of Donkey Pumps ... One Double acting 4 1/2 x 10 stroke
Where do they pump from ... From the Sea, Bilge, Hotwells + Ballast Tanks
No. of bilge injections One and sizes 6
Are they connected to air, or circulating pumps To Circulating
Is there a hand pump in the engine room Yes
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

MAIN BOILERS.

Number Two Description Round Horizontal double ended
Made by David Rowan
When 18 79 At Glasgow
Working pressure 40 lbs
Tested by hydraulic pressure to 140 lbs, Date April 26th 1879
Description of super-heating apparatus None a Receiver is fitted on each boiler
Can each boiler be worked separately Yes
Can the super-heater be shut off and the boilers worked separately
Description and area of safety valves on each boiler ... Two Direct Spring each 14 1/2 sq. inches area
No. of square feet of fire-grate surface in each boiler 40 1/2
Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin Yes
Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. Yes

DONKEY BOILER

Description Round Vertical Made by Wilson Liverpool
Where fixed In recess above after-stowhold
Working pressure 40 lbs
Tested by hydraulic pressure to 140 lbs, Date 4.2.79
Description and area of safety valves Two Direct Spring each 15 1/2 sq. area
No. of square feet of fire grate 15 1/2

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship Yes
Are they Kingston valves or common cocks ... Screw down valves + Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... All fitted above the turn of the pipe
Are the discharge pipes above or below the deep water line Above
Are they each fitted with a discharge valve on the plating of the vessel Yes
What pipes are carried through the bunkers Main Steam pipes
How are they protected By Iron casing
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock On ship previous to being launched
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 Yes
David Rowan Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Maharani" owned by Asiatic Steam Navigation Co. (Limited) of the Port of Liverpool of 104 1/2 Tons Register, and 190 Registered Horse Power, and that they have been carefully inspected and examined by me at Belfast June 5th 1879 in good order and safe working condition.

Amount of Fee for Survey ... £ 9 : 10 : 0 3/4 5/6/79 J.M.
(Travelling Expenses, if any, £ 4 " 14 " 6)

James Morrison
Engineer Surveyor to Lloyd's Register of Shipping.
© 2019 Lloyd's Register

IRON 485-0134

The Machinery of this vessel has
been made and fitted in accordance
with the rules submitted that she
is eligible to draw Licenses M
C and a certificate for

5 June 1879

M 9.6.79



© 2019

Lloyd's Register
Foundation