

SHIP'S NAME "Maharaja"

23338 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 2/5/79

Description Compound, Inverted, Direct-Acting
Made by David Rowan
When 18 49 At Glasgow
Diameter of cylinder 34" & 61" Length of stroke 45"
No. of revolutions per minute 40 approx
Point of cut off Variable
Diameter of screw shaft 12"
Diameter of crank shaft journals 12"
Diameter of screw, or of paddle wheel 15" 6"
Pitch of screw 18" 0"
No. of blades 4 Total surface 48 sq ft
No. of bilge pumps 2 and sizes 4 1/2" dia x 1 6/8" stroke
Do they pump from each compartment Yes

Are all the bilge suction pipes fitted with roses Yes
No. of feed pumps 2 and sizes 4 1/2" dia x 9 5/8" stroke
What gauges are there attached to the engines and boilers One steam, one vacuum, one compound in E. Room, two steam in each stoke-hold
Description and size of Donkey Pumps One double-acting 4 1/2" x 10", one Gwynne's centrifugal about 2 1/2" 5" cylinder
Where do they pump from Bosley from sea, bilge & bottom, centrifugal from ballast tanks
No. of bilge injections one and sizes 5" dia
Are they connected to air, or circulating pumps 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
Made by David Rowan
When 18 49 At Glasgow
Working pressure 40 lbs
Tested by hydraulic pressure to 140 lbs, Date 12/3/49
Description of super-heating apparatus None, large steam receiver
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 (Cochran's) 3 1/4" area
No. of square feet of fire-grate surface in each boiler 40 sq feet
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
Where fixed Over stoke-hold
Working pressure 40 lbs

Tested by hydraulic pressure to 140 lbs, Date 12/3/49
Description and area of safety valves Two direct spring 1/2" area
No. of square feet of fire grate 12 sq ft approx

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 above turn of bilge
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 pipe
How are they protected Non casing (Berol's)
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock New ship, before 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 Water tight door

David Rowan, Glasgow 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 "Maharaja" owned by Asiatic Steam Navigation Co (Limited) of the Port of Liverpool of Tons Register, and 190 Registered Horse Power, and that they have been carefully inspected and examined by me at Belfast and found to be at this date, viz., 26th April 18 49 in good order and safe working condition.

Amount of Fee for Survey ... £ 9:10:03
(Travelling Expenses, if any, £ 4:14:06)
30/4/79

Alfred H. Alchin, Engineer Surveyor to Lloyd's Register of Shipping.
Clyde Foundation

No. 2600
Port Belfast
Report (if any) on Hull of Vessel.

Form No. 8-1000-22 (5/78)

The Engines 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 Machinery Certificate.
Jan 26 - April 1879 -

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5.5.79



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ENGINEER
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