

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* Are all the bilge suction pipes fitted with roses *Yes*
Made by *David Rowan* No. of feed pumps *2* and sizes *4 1/2" dia. x 9 5/8" stroke*
When *18 49* At *Glasgow* 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*
Diameter of cylinder *34" & 61"* Length of stroke *45"* Description and size of Donkey Pumps ... *One double acting 4 1/2" x 10" one Guyon's centrifugal about 2 1/2" 5" cylinder*
No. of revolutions per minute *70 approx* Where do they pump from ... *Boiler from sea, bilge & bottom, centrifugal from ballast tanks*
Point of cut off *Variable* No. of bilge injections *One* and sizes *5" dia.*
Diameter of screw shaft *12"* Are they connected to air, or circulating pumps *Circulating*
Diameter of crank shaft journals *12"* Is there a hand pump in the engine room *Yes*
Diameter of screw, or of paddle wheel *15" 6"* Can it be worked by the main engines *No*
Pitch of screw *18" 0"* Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*
No. of blades, *4* Total surface *48 sq. ft.*
No. of bilge pumps *2* and sizes *4 1/2" dia. x 16 1/8" stroke*
Do they pump from each compartment *Yes*

MAIN BOILERS.

Number *Two* Description *Round, horizontal* Can the super-heater be shut off and the boilers worked separately *Yes*
Made by *David Rowan* Description and area of safety valves on each boiler ... *Two direct spring (Cochran's) 3 1/4" area*
When *18 49* At *Glasgow* No. of square feet of fire-grate surface in each boiler *40 sq feet*
Working pressure *40 lbs* Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
Tested by hydraulic pressure to *140 lbs*, Date *12/3/49* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *Yes*
Description of super-heating apparatus *None, large steam receiver*
Can each boiler be worked separately *Yes*

DONKEY BOILER.

Description *Round, Vertical* Tested by hydraulic pressure to *140 lbs*, Date *12/3/49* *Made in L. Port & tested in presence of our Agent*
Where fixed *Over stoke-hold* Description and area of safety valves *Two direct spring 1" area*
Working pressure *40 lbs* 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* What pipes are carried through the bunkers *Main steam pipe*
Are they Kingston valves or common cocks ... *Screw down valves & cocks* How are they protected *Non casing (Cochran)*
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *All above turn of bilge* When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *New ship, before being launched*
Are the discharge pipes above or below the deep water line *Above* Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
Are they each fitted with a discharge valve on the plating of the vessel *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 *190* 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 ... £ *9:10:3*
(Travelling Expenses, if any, £ *4" 14" 6*)
30/4/79

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

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.
from 26 April 1879 -

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5.5.79



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