

19452. Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Rev 24/10/77

ENGINES.

Description *Comp. 4 Inlet, 4 Exh. 2. Acting*
Made by *J. Brassey & Co.*
When *1872* At *Birkenhead*
Diameter of cylinder *1 of 27, 1 of 50* Length of stroke *33"*
No. of revolutions per minute *58*
Point of cut off *Variable*
Diameter of screw shaft *8 1/2"*
Diameter of crank shaft journals *8 1/2"*
Diameter of screw, ~~or of paddle wheel~~ *11" 0"*
Pitch of screw *12" 0"*
No. of blades, *4* Total surface *50 ft.*
No. of bilge pumps *2* and sizes *2 3/4"*
Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
No. of feed pumps *2* and sizes *2 3/4"*
What gauges are there attached to the engines and boilers ... *1 press gauge in stokehold 1 P. 1 C. & 1 B.P. gauge in C.R.*
Description and size of Donkey Pumps ... *1 of 3" plunger S.A. 1 of 6" plunger A*
Where do they pump from ... *Sea bilges, water, ballast, tanks To Bottom deck, overboard & condensate*
No. of bilge injections *1* and sizes *4 1/2"*
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 *2* Description *Cyl. Ret. Tubular*
Made by *J. Brassey & Co.*
When *1872* At *Birkenhead*
Working pressure *59 lbs.*
Tested by hydraulic pressure to *—*, Date *—*
Description of super-heating apparatus *Vertical drum.*
Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *No*
Description and area of safety valves on each boiler *Lever weight. 2 of = 9.6 area each*
No. of square feet of fire-grate surface in each boiler *34 ft.*
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 *Cyl. vertical, air tube*
Where fixed *Under bridge deck*
Working pressure *—*

Tested by hydraulic pressure to *—*, Date *—*
Description and area of safety valves *1 of Lever weight = 3.9 1 of direct = 3.1*
No. of square feet of fire grate *34 ft.*

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 ... *Common cocks & reverts*
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Not all.*
Are the discharge pipes above or below the deep water line *level*
Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *Not any*
How are they protected *—*
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *At this time*
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*

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 *A. J. Barry* owned by *Messrs Dixon & Harris* of the Port of *London* of *545* Tons Register, and *99* Registered Horse Power, and that they have been carefully inspected and examined by me at *Birkenhead* and found to be at this date, viz., *6th October* 18 *77* in good order and safe working condition.

See L 4-19-11 10/10/77

Engineer Surveyor to Lloyd's Register of Shipping.