

19452 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Rec 26/10/77

ENGINES.

Description *Comp. 4 Stroke, Spec. Com. Eng. D. 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 3/4"*
 Diameter of screw, or of paddle wheel *11" 0"*
 Pitch of screw *12" 0"*
 No. of blades, *4* Total surface *50ft.*
 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 D.A., 1 of 6" plunger D.A.*
 Where do they pump from ... *Sea bilges, water, ballast, tanks To Bottom deck, overboard & condenser*
 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 dome.*
 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 *34ft.*
 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, com. 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 *34ft.*

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

J. G. Wingham
 Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation
 IRON 474-0238

Report on Hull of Vessel.