

2044 2200

LOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Inverted*
 Made by *London & Glasgow S.H.B. Co*
 When 18 *65* At *Glasgow*
 Diameter of cylinder *36* Length of stroke *30*
 No. of revolutions per minute *62*
 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
 Pitch of screw
 No. of blades, *4* Total surface
 No. of bilge pumps *2* and sizes *3 1/2 x 15*
 Do they pump from each compartment *S. Room only*

Are all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *2* and sizes *3 1/2 x 15*
 What gauges are there attached to the engines and boilers ... } *1 Vacuum to Engine*
 } *1 Steam to Boiler*
 Description and size of Donkey Pumps ... } *Double Acting*
 Where do they pump from } *Tanks, Bilge and Sea*
 No. of bilge injections *two* and sizes
 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 *yes*
 Is there a deck hose of sufficient length to reach to any part of the vessel } *yes*

MAIN BOILERS.

Number *One* Description *Cylindrical*
 Made by *Hodge & Co*
 When 18 *78* At *London*
 Working pressure *140 lbs*
 Tested by hydraulic pressure to *80 lbs.*, Date
 Description of super-heating apparatus } *None*
 Can each boiler be worked separately

Can the super-heater be shut off and the boilers worked separately }
 Description and area of safety valves on each boiler } *Boer and weight*
 } *5" diameter*
 No. of square feet of fire-grate surface in each boiler }
 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 *Vertical 3 cross tubes*
 Where fixed *Stokehold*
 Working pressure *30 lbs*

Tested by hydraulic pressure to _____, Date
 Description and area of safety valves *10W, 1 Lever, each*
 No. of square feet of fire grate *2 1/2 dia*
41.6 dia

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 ... } *Cocks & valves*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates } *yes*
 Are the discharge pipes above or below the deep water line } *lead*
 Are they each fitted with a discharge valve on the plating of the vessel } *yes*

What pipes are carried through the bunkers *None*
 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 } *no tunnel*

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 *Cromwell* owned by *Gen I. Screw Col. Co*
 of the Port of *London* of *565* Tons Register, and *90* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *London*
 and found to be at this date, viz., *February* 18 *78* in good order and safe working condition.

Amount of Fee for Survey £ *4:10:0* *Red*
 (Travelling Expenses, if any, £ *9.4.18*)

James Milton
 Engineer Surveyor to Lloyd's Register of Shipping.
London