

19795 Lin
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Report on Hull of Vessel. No 5924
Description *Compound Inverted Surface Condensing*
Made by *J. Readhead & Co*
When *July 18/93* At *South Shields*
Diameter of cylinder *26 1/2* Length of stroke *33*
No. of revolutions per minute *About 65*
Point of cut off *5/8th of stroke*
Diameter of screw shaft *8 1/2*
Diameter of crank shaft journals *8 1/2* *Journal shaft 8 dia*
Diameter of screw, or of paddle wheel *12 - 6"*
Pitch of screw *14 - 6" to 16 - 6"*
No. of blades, *4* Total surface *45 sq feet*
No. of bilge pumps *2* and sizes *3 x 18 3/4th Single Acting*
Do they pump from each compartment *one hold, after well, ballast tanks to reach to any part of the vessel*
Port pump draws from engine room only

Are all the bilge suction pipes fitted with roses *Yes*
No. of feed pumps *2* and sizes *3 x 18 3/4th Single Acting*
What gauges are there attached to the engines and boilers ... *2 steam 1 Vacuum*
Description and size of Donkey Pumps ... *1 pump 8 dia x 12 3/4th Double Acting*
Where do they pump from ... *from sea, ballast tanks, fore hold & after well, engine room, fore hold & ballast tanks, after well*
No. of bilge injections *1* and sizes *4" outside*
Are they connected to air, or circulating pumps *Circulating pump*
Is there a hand pump in the engine room *Donkey works by hand*
Can it be worked by the main engines *No*

MAIN BOILERS.

Number *One* Description *Cylindrical Multitubular*
Made by *J. Readhead & Co*
When *July 18/93* At *South Shields*
Working pressure *65 lbs*
Tested by hydraulic pressure to *130 lbs*, Date *July 18/93*
Description of super-heating apparatus *None*
Can each boiler be worked separately *only one boiler in ship*

Can the super-heater be shut off and the boilers worked separately *No superheater*
Description and area of safety valves on each boiler *Two lever & weight valves Total area 31.8 sq in*
No. of square feet of fire-grate surface in each boiler *50 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 *All except suction pipes & pump in fore hold when ship is loaded*

DONKEY BOILER

Description *Vertical Water Tubes in Furnace*
Where fixed *On deck*
Working pressure *65 lbs*

Made by *Geo. Duncan, No. Hartlepool*
Tested by hydraulic pressure to *130 lbs*, Date *24th Nov. 1894*
Description and area of safety valves *Direct & lever & weight Total area 4.9 sq in*
No. of square feet of fire grate *13.3*

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 ... *Stop valves and cocks*
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *No*
Are the discharge pipes above or below the deep water line *Below*
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 *Decr. 1894*
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 *Not watertight; Sluice door fitted*

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 *Deerdale* owned by *Groves, Maclean & Co* of the Port of *West Hartlepool* of *917* Tons Register, and *98* Registered Horse Power, and that they have been carefully inspected and examined by me at *West Hartlepool* and found to be at this date, viz., *1st Decr 1894* in good order and safe working condition.

Amount of Fee for Survey ... £ *4 : 18 : 0*
Certificate *0.5.0*
(Travelling Expenses, if any, £ *0.0.0*)
[1000-1/9/76.]

Engineer Surveyor to Lloyd's Register of Shipping.

