

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

No. 6/10/79

ENGINES.

Description Compound, inverted, Surface Condensing
Made by Blair & Co. (Lim)
When July 18/9 At Stockton on Tees
Diameter of cylinder 28 1/2 x 53 Length of stroke 33"
No. of revolutions per minute About 65
Point of cut off About 1/2 stroke
Diameter of screw shaft 10"
Diameter of crank shaft journals 9 1/2
Diameter of screw, or of paddle wheel 12 1/2"
Pitch of screw About 14:0"
No. of blades 4 Total surface Not ascertained
No. of bilge pumps 2 and sizes 3 1/2 x 24 3/8" Single Acting
Do they pump from each compartment after pump draws from after well in center of engine room

Are all the bilge suction pipes fitted with roses Yes
No. of feed pumps 2 and sizes 3 1/2 x 24 3/8" Single Acting
What gauges are there attached to the engines and boilers ... 3 steam 1 vacuum
Description and size of Donkey Pumps ... 2 pumps from ballast tanks fire hold
Where do they pump from ... after well in center of engine room
No. of bilge injections 1 and sizes 6" dia
Are they connected to air, or circulating pumps Circulating pumps
Is there a hand pump in the engine room Donkey work by hand
Can it be worked by the main engines No
Do they pump from each compartment after pump draws from after well in center of engine room Yes

MAIN BOILERS.

Number Two Description Cylindrical Multitubular
Made by Blair & Co. (Lim)
When July 18/9 At Stockton on Tees
Working pressure 81 lbs
Tested by hydraulic pressure to 162 lbs Date 10/6/99
Description of super-heating apparatus None
Can each boiler be worked separately Yes

Can the super-heater be shut off and the boilers worked separately No Superheater
Description and area of safety valves on each boiler ... Combined area of two valves 16.5
No. of square feet of fire-grate surface in each boiler 25.33
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 ... in holds when ship is loaded

DONKEY BOILER.

Description Horizontal Cylindrical Tubular
Where fixed On Deck
Working pressure 50 lbs

Tested by hydraulic pressure to 100 lbs Date 30/6/99
Description and area of safety valves 1 spring 2 1/4" = 7.1 sq in area
1 layer 2 1/4" = 7.1 sq in area
No. of square feet of fire grate 4.5 sq feet

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 ... Yes
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
Profr Blair & Co. & Co.
Blair

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 New
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 Sluice door fitted

Manufacturers of Engines & Main Boilers only

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 Dixon owned by Richardson, Duck & Co
of the Port of Stockton of 422 7/32 Tons Register, and 110 Registered Horse Power,
and that they have been carefully inspected and examined by me at Stockton & Middlesbrough
and found to be at this date, viz., 9th July 1899 in good order and safe working condition.

Donkey Boiler Survey Fee... £
Amount of Fee for Survey ... £ 5 10 0
Certificate (Travelling Expenses, if any, £ 0 5 0 2/10/1899)

Engineer Surveyor to Lloyd's Register of Shipping.

West Hartlepool

Report (if any) on Hull of Vessel. Port of Hull of Vessel. No. 47209

IRON 487-0521