

(4134)

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *High pressure inverted 2 cyl*
Made by *Messrs Wardhaugh & Balmer*
When *March 1898* At *Newcastle*
Diameter of cylinders *12"* Length of stroke *16"*
No. of revolutions per minute *80*
Point of cut off *1/2"*
Diameter of screw shaft *4"*
Diameter of crank shaft journals *4 5/16"*
Diameter of screw, or of paddle wheel *6' 4"*
Pitch of screw *8' 0"*
No. of blades, *(3)* Total surface *13 1/2 sq. feet*
No. of bilge pumps *(1)* and sizes *3 dia 5 stroke*
Do they pump from each compartment *Engine Room only*

Are all the bilge su... roses *Yes*
No. of feed pumps *(1) 4 1/2" dia 5 stroke*
What gauges are there attached to the engines and boilers ... *1 Steam Gauge*
Description and size of Donkey Pumps ... *4 1/2" dia 5 stroke S. A*
Where does the pump from ... *Sea & Bilge*
No. of bilge injections *none* and sizes *---*
Are they connected to air, or circulating pumps *---*
Is there a hand pump in the engine room *No. Small donkey*
Can it be worked by the main engines *used*
Is there a deck hose of sufficient length to reach to any part of the vessel *no deck hose*

MAIN BOILERS.

Number *One* Description *Vertical Water tubes*
Made by *J. Robinson*
When *Jan. 1898* At *Newport, Middlesex*
Working pressure *60 lbs per sq. inch*
Tested by hydraulic pressure to *120 lbs*, Date *15 Jan 1898*
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 *---*
Description and area of safety valves on each boiler *1 dead weight 3 1/2 dia 8.2 sq. inches*
No. of square feet of fire-grate surface in *one* boiler *14 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. *Yes*

DONKEY BOILER.

Description *---* Tested by hydraulic pressure to *---*, Date *---*
Where fixed *---* Description and area of safety valves *---*
Working pressure *---* No. of square feet of fire grate *---*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Yes. Bolted to brass tubes*
Are they Kingston valves or common cocks ... *common 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 *Where no discharge, under pipes carried up inside hatch.*
Are they each fitted with a discharge valve on the plating of the vessel *none.*

What pipes are carried through the bunkers *Brine pipes*
How are they protected *Wood casing*
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *Now*
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*

Wardhaugh & Balmer 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 *"Lion"* owned by *Messrs. George & William* of the Port of *Burwick* of *89* Tons Register, and *20 H.P.* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle & Burwick on 22nd* and found to be at this date, viz., *April 22nd* 1898 in good order and safe working condition.

Amount of Fee for Survey ... £ 2 2 0
Certificate ... 0 2 6
(Travelling Expenses, &c., £ 1 14 0)

George W. Mansel
Engineer Surveyor to Lloyd's Register of Shipping.

The Machinery of this account is
fitted in accordance with the
Committee's requirements submitted to
the. is eligible to have the
notification by the Mr. P. and
a March, certified June

22^d April 1878

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3.6.78



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