

1897 Jun

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 80/7/17

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

Description Compound Inverted Direct Acting
 Made by Robt Blackwood & Co. London
 When 1876 At Port Glasgow
 Diameter of cylinder 20 1/2 Length of stroke 24"
 No. of revolutions per minute 85
 Point of cut off 5/8
 Diameter of screw shaft 6 7/8"
 Diameter of crank shaft journals 6 1/2"
 Diameter of screw, ~~or propeller~~ 9' 0"
 Pitch of screw 13" x 6"
 No. of blades, Three Total surface 22.5 ft
 No. of bilge pumps Two and sizes 2 3/4" x 14" stroke
 Do they pump from each compartment Yes

Are all the bilge suction pipes fitted with roses Yes
 No. of feed pumps Two and sizes 2 3/4" dia x 14" stroke
 What gauges are there attached to the engines and boilers ... One Steam & One Vacuum
 Description and size of Donkey Pumps ... Double acting 3" x 6" stroke
 Where do they pump from ... From the sea through Hotwell
 No. of bilge injections One and sizes 2 1/4"
 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 One Description Round Horizontal
 Made by Blackwood & Co. London
 When 1877 At Port Glasgow
 Working pressure 65 lbs
 Tested by hydraulic pressure to 130 lbs, Date March 15th 1876
 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 Yes
 Description and area of safety valves on each boiler ... Two Direct Spring each 8.29" area
 No. of square feet of fire-grate surface in each boiler 32 ft
 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 Round Vertical
 Where fixed On Upper or Main Deck
 Working pressure 4 lbs

Tested by hydraulic pressure to 100 lbs, Date July 1877
 Description and area of safety valves Direct loaded 7" area
 No. of square feet of fire grate 7 ft grate

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 ... Screw down valves & cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... Yes they are all fitted above the turn of the bilge
 Are the discharge pipes above or below the deep water line Above
 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 None
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock July 24th 1877
 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

Robt Blackwood & Co. London Manufacturer.
A mechanical engineer

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 "Luva" owned by James McEwan & Co. of the Port of Melbourne of 176.52 Tons Register, and 54 Registered Horse Power, and that they have been carefully inspected and examined by me at Port Glasgow and found to be at this date, viz., July 26th 1877 in good order and safe working condition.

Amount of Fee for Survey £ 2 : 14 : 0
 (Travelling Expenses, if any, £ 0)
James Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.

(1000/31/7/76.)

