Ferry Steamer "Oxton" 23894 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Rec 3/7/79

ENGINES.

Two pairs of Engines with fore and aft Screws

Description Compound Inverted Direct acting

Made by Messrs W. Simons & Coy

When 1879 At Renfrew

Diameter of cylinder 19" & 34" Length of stroke 24"
Two of each

No. of revolutions per minute about 100

Point of cut off 3/4 the of stroke

Diameter of screw shaft 5½"

Diameter of crank shaft journals 4"

Diameter of screw, or of paddle wheel 6'-6"

Pitch of screw 14'-6"

No. of blades, Four Total surface

[illegible] x 20¾" stroke
Yes

Are all the bilge suction pipes fitted with roses Yes

No. of feed pumps One and sizes 3½" dia x 20¾" stroke

What gauges are there attached to the engines and boilers ... One Steam & One Vacuum to each pair of Engines

Description and size of Donkey Pumps ... Double acting 3½" x 6"

Where do they pump from ... from the Sea Hotwell & Bilge

No. of bilge injections One and sizes 3" to each Engine

Are they connected to air, or circulating pumps To 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

Port Glasgow

Ship's Name "Oxton"

Report on Ship No 4-GG-G Sent Feby 3/79

Report on Machinery No 4-GG-G Sent Feby 3/79

MAIN BOILERS.

Horizontal

Can each boiler be worked separately Yes

Date 29.4.79

IRON486-0009

Cased

Common to both Boilers

Can the super-heater be shut off and the boilers worked separately No

Description and area of safety valves on each boiler ... Two Direct Spring each 9.62" Area

No. of square feet of fire-grate surface in each boiler 40 ft²

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 No Donkey Boiler

Where fixed

Working pressure

Tested by hydraulic pressure to , Date

Description and area of safety valves

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

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

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

Wm Simons & Co Manufacturer.

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 On Slip previous to being launched

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

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 "Oxton" owned by Birkenhead Ferry Commissioners Birkenhead of the Port of Liverpool of 129 Tons Register, and 98 Registered Horse Power, and that they have been carefully inspected and examined by me at Renfrew and found to be at this date, viz., June 25th 1879 in good order and safe working condition.

Amount of Fee for Survey ... ... £5 : 0 : 0 Paid

(Travelling Expenses, if any, £ 1 : 1 : 0)

James McLean
Engineer Surveyor to Lloyd's Register of Shipping.
Clyde District

[1000—1/9/76.]

(Two) Tracings of Boiler appended