

S. S. Eider

24742 200

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Rec 29/10/79

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

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

Description Vert' en' non-comp. jet condensing. Made by Richardson & Son. When 1876 At Hartholport. Diameter of cylinder 24" Length of stroke 20". No. of revolutions per minute 84. Point of cut off. Diameter of screw shaft 5 7/8". Diameter of crank shaft journals 6 7/8" x 7" (Pins 3 1/16" x 4 3/8"). Diameter of screw, or of paddle wheel 6' 0". Pitch of screw 15' 0". No. of blades 4 Total surface. No. of bilge pumps One and sizes 3 3/8" x 9". Do they pump from each compartment No.

Are all the bilge suction pipes fitted with roses Yes. No. of feed pumps One and sizes 3 3/8" x 9". What gauges are there attached to the engines and boilers ... One steam, one vacuum & the usual water gauge. Description and size of Donkey Pumps ... Vert' single acting 24" 6 1/2" Ram 3/8" Stroke 9". Where does it pump from ... From Engine room, but go to Sea and to Boilers, deck overboard & the donkey boiler. No. of bilge injections One and sizes 2 1/4" suction pipe. Are they connected to air, or circulating pumps To air pump. Is there a hand pump in the engine room No. - but handle to donkey. Can it be worked by the main engines. Is there a deck hose of sufficient length to reach to any part of the vessel Yes.

MAIN BOILERS.

Number One Description Circular multitubular. Made by M. Samuelson. When 1873 At Hull. Working pressure 25th pres. inch. Tested by hydraulic pressure to 62 lb, Date 26/9/79. Description of super-heating apparatus None fitted. Can each boiler be worked separately Only one Boiler.

Can the super-heater be shut off and the boilers worked separately None fitted. Description and area of safety valves on each boiler ... Two of Cameron & Heath's patent spring loaded. Each 3 1/2" dia. = 16.59 sq. in. fitted with screw & turning gear. No. of square feet of fire-grate surface in each boiler 35 feet. Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin Yes & guard on outer blow off. Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times ... Roses of bilge injection & donkey, not accessible when the Engines are at work.

DONKEY BOILER.

Description Vert' cylindrical internal flow. Where fixed On deck. Working pressure 36th pres. inch.

Tested by hydraulic pressure to 40 lb, Date 3/10/79. Description and area of safety valve dead load - one of 2 1/2" dia. = 3.3 sq. in. No. of square feet of fire grate 9 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 ... 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 Above. Are they each fitted with a discharge valve on the plating of the vessel No.

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 13th Sept. 79. Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge Yes except bilge injection which is a common cock connected with air pump. Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead No tunnel. Engine's sight shaft.

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 'Eider' owned by Thomas Dennis of the Port of London of 99 Tons Register, and 40 Registered Horse Power, and that they have been carefully inspected and examined by me at Hull and found to be at this date, viz., 10th Oct 1879 in good order and safe working condition.

Amount of Fee for Survey ... £ : : (Travelling Expenses, if any, £)

John B. Stevens Engineer Surveyor to Lloyd's Register of Shipping at Hull.

(1000/31/7/76.)