18317 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Rec 30/4/77

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Report (if any) on Hull of Vessel. Port Sunderland. No. 11639

ENGINES.

Description Inverted Compound. Surface Condensing.

Made by Mr. J. Dickinson

When April 1877 At Sunderland.

Diameter of cylinders 30" & 57" (one of each) Length of stroke 36"

No. of revolutions per minute about 65.

Point of cut off 1/2 stroke.

Diameter of screw shaft 9 3/4".

Diameter of crank shaft journals 10".

Diameter of screw, ~~or of paddle wheel~~ 13' 9".

Pitch of screw 16' 6"

No. of blades, 4 Total surface 50 sqr. feet.

No. of bilge pumps 2 and sizes 3 3/4" dia. x 19" stroke.

Do they pump from each compartment fore hold. Engine room & aft well.

Are all the bilge suction pipes fitted with roses yes.

No. of feed pumps 2 and sizes 3 3/4" dia. x 19" stroke.

What gauges are there attached to the engines and boilers ... 1 steam gauge in engine room. Common to both boilers. 1 " on each boiler in stokehole. 1 vacuum

Description and size of Donkey Pumps ... one inverted double acting 8" x 10" stroke. one " single acting 4 1/2" x 6" "

Where do they pump from ..... The large one, from sea. Tanks & bilges of engine room. aft well & fore hold. Small one from sea & hotwell.

No. of bilge injections one and sizes 4" dia.

Are they connected to air, or circulating pumps to Circulating pump

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 (from iron pipe)

MAIN BOILERS.

Number Two. Description Cylindrical & Multitubular

Made by Mr. J. Dickinson.

When April 1877 At Sunderland.

Working pressure 70 lbs.

Tested by hydraulic pressure to 140 lbs, Date March 14th/77 I was present W. A.

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 —

Description and area of safety valves on each boiler ..... 2 spring safety valves 3 1/2" dia. = 19.2 area.

No. of square feet of fire-grate surface in each boiler 36.

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 (except bilge suction in fore hold when full)

DONKEY BOILER.

Upright Cyl. with 3 cross tubes. in the stokehole.

Pressure 45 lbs.

Tested by hydraulic pressure to 100 lbs (reported), Date March 29th/77

Description and area of safety valves one loaded direct 3 1/2" = 9.6 area

No. of square feet of fire grate 16.

PIPES, COCKS, AND CONNECTIONS.

All connections with the sea direct on the skin of the ship yes.

Are they Kingston valves or common cocks ... stop 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.

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 yes.

John Dickinson

Manufacturer. Except of the Donkey Boiler. I was present when steam was raised & the engines worked. & the safety valves adjusted, & tested. satisfactory April 21st/77 W.A.

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 ~~TAPOENSON~~ Partheon *owned by* ~~Theophilatos Stathelos~~ G. Gibson & Moran *of the Port of* ~~Ithaca~~ Sunderland *of* 875.92 *Tons Register, and* 140. *Registered Horse Power, and that they have been carefully inspected and examined by me at and found to be at this date, viz.,* April 25th 1877 *in good order and safe working condition.*

Amount of Fee for Survey ..... £ 7 : 0 :
Certificate 0 : 5
(Travelling Expenses, if any, £)
£ 7 - 5

Received 28/4/77 JHW

William Allison
Engineer Surveyor to Lloyd's Register of Shipping.

[1000—1/9/76.]

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