19517 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Rec 29/10/77

ENGINES.

Description 2 cyl^r Compound Inverted S. C.

Made by Messrs J. Readhead & Bros

When Oct 1877 At South Shields

Diameter of cylinder 26 1/4 & 58 1/4 Length of stroke 36"

No. of revolutions per minute 67

Point of cut off 12" to 24" HP 20" LP.

Diameter of screw shaft 9 1/4"

Diameter of crank shaft journals 9 1/2"

Diameter of screw, or of paddle wheel 14 feet

Pitch of screw 15 to 17 feet

No. of blades, (4) Total surface 48 sq. feet

No. of bilge pumps (2) and sizes 3 1/2" dia 20" stroke

Do they pump from each compartment Eng. Room aft Well & Fore Peak

Are all the bilge suction pipes fitted with roses Yes

No. of feed pumps (2) and sizes 3 1/2" dia 20" stroke

What gauges are there attached to the engines and boilers ... 1 Steam each Boiler Stokehold, 1 ditto do Engine Room, 1 Vacuum, 1 compound

Description and size of Donkey Pumps ... "Ballast" 6" dia 10" stroke D.A. "Bilge" 4" dia 9" stroke D.A.

Where do they pump from ..... "Ballast" from Tanks, Dia. aft Well, Eng. room & fore peak "Bilge" as above & Hold well

No. of bilge injections (1) and sizes 3 1/2" dia

Are they connected to air, or circulating pumps circulating

Is there a hand pump in the engine room No

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 (2) Description Cylindrical Tubular

Made by J. Readhead & Bros

When Oct 1877 At South Shields

Working pressure 70 lbs per sq. inch

Tested by hydraulic pressure to 140 lbs, Date Sept 4-77

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 None

Description and area of safety valves on each boiler ..... (2) Spring safety valves 3 1/4 dia = 16.4 sq. in by Adams

No. of square feet of fire-grate surface in each boiler 33 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..... All except roses in fore Peak

DONKEY BOILER.

Description Cylindrical Vertical 3 cross tubes

Where fixed Stokehold

Working pressure 50 lbs per sq. inch

Tested by hydraulic pressure to 100 lbs, Date 24/8/77

Description and area of safety valves (1) dead weight 3" dia = 10"

No. of square feet of fire grate 13.6 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 ... (2) Stop Valves rest are 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 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 July 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

Safety valves eased 70 lbs closed 68 lbs accumulation 75 lbs

John Readhead & Sons 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 "Petrarch" *owned by* Messrs McCandlish & Co *of the Port of* London *of* 1296.00 *Tons Register, and* 140 *Registered Horse Power, and that they have been carefully inspected and examined by ~~me~~ us at* South Shields *and found to be at this date, viz.,* 11th October 1877 *in good order and safe working condition.*

Amount of Fee for Survey ... £ 7 : 0 : 0 Cubitt
(*Travelling Expenses, if any,* £ 0 : 10 : 0) 0 : 5 : 0 Paid 4/4 Free Memo Accounts Department P. Young 27/10/77

George W. Manuel & James Milton *Engineer Surveyors to Lloyd's Register of Shipping.* North Shields.

[1000—1/9/76.]

Port Newcastle No. 12740

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