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LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Rec 12/8/78

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Port Newcastle No. 140480

Report (if any) on Hull of Vessel.

ENGINES.

Description: Inverted Compound

Made by: Messrs John Shaw & Co

When: July 1878 At: Newcastle

Diameter of cylinders: 30" & 56" Length of stroke: 36"

No. of revolutions per minute: 66

Point of cut off: 9/16

Diameter of screw shaft: 10"

Diameter of crank shaft journals: 10"

Diameter of screw, ~~or of paddle wheel~~: 15 ft 6 in

Pitch of screw: 16½ to 19½ ft

No. of blades, 4 Total surface: 58 Sq ft

No. of bilge pumps: 2 and sizes: 4½" × 18"

Do they pump from each compartment: Yes

Are all the bilge suction pipes fitted with roses: Yes

No. of feed pumps: 2 and sizes: 4½" × 18"

What gauges are there attached to the engines and boilers ...: 1 Steam & 1 Bass in E R; 2 Steam in Stokehole

Description and size of Donkey Pumps ...: 4 Pump Double acting

Where do they pump from ...: Fore hold, Engine space, aft hold, fore tank, aft tank, aft peak tank.

No. of bilge injections: 1 and sizes: 3½"

Are they connected to air, or circulating pumps: Air

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: Two Description: (Steel) Cylindrical

Made by: Messrs John Shaw & Co

When: July 1878 At: Newcastle

Working pressure: 75 lbs

Tested by hydraulic pressure to: 150 lbs, Date: 4.7.78

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: No Superheater

Description and area of safety valves on each boiler ...: 2 Spring Valves 4¼" dia = 28" area

No. of square feet of fire-grate surface in each boiler: 574 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: (Steel) Vertical. Cylindrical,

Where fixed: Stokehole

Working pressure: 70 lbs

Tested by hydraulic pressure to: 140 lbs, Date: 4.7.78

Description and area of safety valves: 1 Spring Valve

No. of square feet of fire grate: 18 ft

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 ...: 1 Kingston & 4 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 Shaw & Co
Neptune Engine Works
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 "Danish Monarch" *owned by* Messrs J. Patton junr & Co *of the Port of* London *of* 866.58 *Tons Register, and* 150 *Registered Horse Power, and that they have been carefully inspected and examined by me at* Newcastle *and found to be at this date, viz.,* 30th July 1878 *in good order and safe working condition.*

Amount of Fee for Survey ... ... £15 : 10 : 0
(*Travelling Expenses, if any,* £ — 0 : 5 : 0)
Paid by the Surveyor 9/8/78.

John Buchart
Engineer Surveyor to Lloyd's Register of Shipping.
North Shields

[1000—1/9/76.]

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IRON479-0371

According letter in accordance with the
rules submitted that this class be
G. Lloyd's Register
Date 30 July 1878

13.5.78

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