

# REPORT ON MACHINERY.

Received at London Office 18

No. Port of 18

No. in Survey held at Date, first Survey Last Survey

Reg. Book. (Number of Visits)

on the Tons

Master Built at By whom built When built

Engines made at By whom made when made

Boilers made at By whom made when made

Registered Horse Power Owners Port belonging to

## ENGINES, &c.—

Description of Engines

Diameter of Cylinders Length of Stroke No. of Rev. per minute Point of Cut off, High Pressure Low Pressure

Diameter of Screw shaft Diam. of Tunnel shaft Diam. of Crank shaft journals Diam. of Crank pin size of Crank webs

Diameter of screw Pitch of screw No. of blades state whether moveable total surface

No. of Feed pumps diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge pumps diameter of ditto Stroke Can one be overhauled while the other is at work

Where do they pump from

No. of Donkey Engines Size of Pumps Where do they pump from

Are all the bilge suction pipes fitted with roses Are the roses always accessible Are the sluices on Engine room bulkheads always accessible

No. of bilge injections and sizes Are they connected to condenser, or to circulating pump

How are the pumps worked

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off' cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight and fitted with a sluice door worked from

## BOILERS, &c.—

Number of Boilers Two Description Multi tubular Whether Steel or Iron Steel

Working Pressure 30 lb. Tested by hydraulic pressure to 40 lb. Date of test

Description of superheating apparatus or steam chest None

Can each boiler be worked separately Yes Can the superheater be shut off and the boiler worked separately

No. of square feet of fire grate surface in each boiler 44.275 Description of safety valves No. to each boiler

Area of each valve Are they fitted with easing gear No. of safety valves to superheater area of each valve

Are they fitted with easing gear Smallest distance between boilers and bunkers or woodwork Diameter of boilers 8'-6 3/4"

Length of boilers 17'-2 1/2" description of riveting of shell long. seams Double Zigzag circum. seams End seam, single Thickness of shell plates 3/8"

Diameter of rivet holes 3/4" whether punched or drilled Drilled pitch of rivets 2" and 2 1/2" Lap of plating 3 3/4"

Per centage of strength of longitudinal joint 70% working pressure of shell by rules 50.3 lb. size of manholes in shell 12x16 & 14x10

Size of compensating rings 20x24 & 18x14 No. of Furnaces in each boiler 2

Outside diameter 8'-7 1/4" length, top 7'-6" bottom 7'-3" thickness of plates 3/8" description of joint Welded if rings are fitted none

Greatest length between rings 3'-10" working pressure of furnace by the rules 76 lb. combustion chamber plating, thickness, sides 7/16 back 7/16 top 7/16

Pitch of stays to ditto, sides 13" back 16" top 13" If stays are fitted with nuts or riveted heads Multi tubular working pressure of plating by rules 32 lb. Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 8050 end plates in steam space, thickness 9/16

Pitch of stays to ditto 18x17 how stays are secured Double nut & washers working pressure by rules 11840 39 lb. diameter of stays at smallest part 1.375" working pressure by rules 11840 Front plates at bottom, thickness 9/16 Back plates, thickness 7/16

Greatest pitch of stays 13 working pressure by rules 32 lb. Diameter of tubes 3" outside pitch of tubes 4" thickness of tube plates, front 9/16 back 7/16 how stayed Same as top pitch of stays 12" width of water spaces 4"

Diameter of Superheater or Steam chest length thickness of plates description of longitudinal joint diam. of rivet holes

Pitch of rivets working pressure of shell by rules diameter of flue thickness of plates If stiffened with rings

Distance between rings working pressure by rules end plates of superheater, or steam chest; thickness how stayed

Superheater or steam chest; how connected to boiler

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