

# REPORT ON MACHINERY.

No.                      Port of                      Received at London Office                      18  
 No. in Survey held at                      Date, first Survey                      Last Survey                      18  
 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 1/4 Tested by hydraulic pressure to 60 1/4 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 seams, 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 7/8 working pressure of shell by rules 50.3 1/6 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                       
 Greatest length between rings 3'-10" working pressure of furnace by the rules 76 1/6 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 1/6 Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 80.50 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 118.40 39 1/6 diameter of stays at smallest part 1.375" working pressure by rules 118.40 Front plates at bottom, thickness 9/16 Back plates, thickness 7/16  
 Greatest pitch of stays 13 working pressure by rules 32 1/6 Diameter of tubes 3" outside pitch of tubes 4" thickness of tube plates, front 9/16 back 7/16 how stayed Same as stays 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                     

(State if Report is also sent on the Hull of the Ship)