

# REPORT ON MACHINERY.

Port of Newcastle

Received at London Office

No. in Survey held at Newcastle Date, first Survey Jan 9 '00 Last Survey June 13 1900  
Reg. Book. S.S. Monomoy (Number of Visits 31)

Master J. L. Thompson Built at Sunderland By whom built J. L. Thompson & Co When built 1900  
Tons }  
Net }

Engines made at Sunderland By whom made J. L. Thompson & Co when made 1900

Boilers made at South Shields By whom made J. T. Ettringham & Co when made 1900

Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_  
Nom. Horse Power as per Section 28 \_\_\_\_\_ Is Refrigerating Machinery fitted \_\_\_\_\_ Is Electric Light fitted \_\_\_\_\_

**ENGINES, &c.—Description of Engines**

Description of Engines		No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft as per rule as fitted
Dia. of Tunnel shaft as per rule as fitted	Dia. of Crank shaft journals as per rule as fitted	Dia. of Crank pin	Size of Crank webs
Collars	Dia. of screw	Pitch of screw	No. of blades
No. of Feed pumps	Diameter of ditto	Stroke	State whether moveable
No. of Bilge pumps	Diameter of ditto	Stroke	Total surface
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps	
In Engine Room		In Holds, &c.	
No. of bilge injections	sizes	Connected to condenser, or to circulating pump	Is a separate donkey suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses		Are the roses in Engine room always accessible	Are the sluices on Engine room bulkheads always accessible
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 and all boiler mountings accessible at all times			
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication 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	
Is it fitted with a watertight door		worked from	

**BOILERS, &c.—** (Letter for record \_\_\_\_\_) Total Heating Surface of Boilers 905 sq Is forced draft fitted \_\_\_\_\_  
Working Pressure 180 Tested by hydraulic pressure to 360

**No. and Description of Boilers**

Date of test	Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of safety valves to each boiler
<u>22.5.00</u>			
Smallest distance between boilers or uptakes and bunkers or woodwork	Area of each valve	Pressure to which they are adjusted	Are they fitted with easing gear
Thickness <u>15/16</u> Range of tensile strength <u>28/32</u> Are they welded or flanged <u>No</u>	Smallest dia. of boilers <u>10'0"</u>	Length <u>10'0"</u>	Material of shell plates <u>St</u>
Diameter of rivet holes in long. seams <u>15/16</u> Pitch of rivets <u>5 3/8"</u>	Descrip. of riveting: cir. seams <u>J.R.</u>	long. seams <u>5-R.</u>	
Per centages of strength of longitudinal joint rivets <u>82</u> plate <u>82</u>	Working pressure of shell by rules <u>181</u>	Size of manhole in shell <u>16x12</u>	
Size of compensating ring <u>7x15 1/2"</u>	No. and Description of Furnaces in each boiler <u>Two plain</u>	Material <u>St</u>	Outside diameter <u>35 1/4"</u>
Length of plain part top <u>6'8"</u> bottom <u>9'0"</u> Thickness of plates crown <u>23/32</u> bottom <u>25/32</u>	Description of longitudinal joint <u>J.B + S.R.</u>	No. of strengthening rings <u>8</u>	
Working pressure of furnace by the rules <u>192</u> Combustion chamber plates: Material <u>St</u> Thickness: Sides <u>5/8"</u> Back <u>7/16"</u> Top <u>5/8"</u> Bottom <u>23/32"</u>	Pitch of stays to ditto: Sides <u>9x8"</u> Back <u>10x9"</u> Top <u>8 1/2x8"</u>	If stays are fitted with nuts or riveted heads <u>Nuts</u>	Working pressure by rules <u>180</u>
Material of stays <u>St</u> Diameter at smallest part <u>1 1/2"</u> Area supported by each stay <u>90"</u>	Working pressure by rules <u>186</u>	End plates in steam space: Material <u>St</u> Thickness <u>15/16x9/8"</u> Pitch of stays <u>20 1/2"</u>	How are stays secured <u>J.M+W</u> Working pressure by rules <u>185</u> Material of stays <u>S</u>
Diameter at smallest part <u>2 7/16"</u> Area supported by each stay <u>390"</u>	Working pressure by rules <u>182</u>	Material of Front plates at bottom <u>S</u>	
Thickness <u>15/16</u> Material of Lower back plate <u>S</u> Thickness <u>27/32</u> Greatest pitch of stays <u>14"</u>	Working pressure of plate by rules <u>192</u>		
Diameter of tubes <u>3 1/4"</u> Pitch of tubes <u>4 1/2x4 3/8"</u> Material of tube plates <u>S</u> Thickness: Front <u>15/16"</u> Back <u>7/8"</u>	Mean pitch of stays <u>11 1/2"</u>		
Pitch across wide water spaces <u>13 7/8"</u> Working pressures by rules <u>181"</u>	Girders to Chamber tops: Material <u>S</u> Depth and thickness of girder at centre <u>2 1/2x6x15/16"</u> Length as per rule <u>25"</u>	Distance apart <u>8 1/2"</u>	Number and pitch of Stays in each <u>2x8"</u>
Working pressure by rules <u>184</u> Superheater or Steam chest; how connected to boiler _____	Can the superheater be shut off and the boiler worked separately _____		
Diameter _____ Length _____ Thickness of shell plates _____ Material _____	Description of longitudinal joint _____	Diam. of rivet _____	
Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____	Material of flue plates _____	Thickness _____	
Stiffened with rings _____ Distance between rings _____ Working pressure by rules _____	End plates: Thickness _____	How stayed _____	
Working pressure of end plates _____ Area of safety valves to superheater _____	Are they fitted with easing gear _____		



