

REPORT ON MACHINERY.

THURSDAY 25 OCT 1883

Received at London Office

3679

Survey held at Glasgow Date, first Survey March 5th Last Survey Oct^r 20th 1883
 on the Screw Steamer "Mount Edgcombe" Tons 1074.35
 Built at Barrow By whom built The Barrow S. S. Coy. When built 1883
 Made at Glasgow By whom made Hutton & Corbett when made 1883
 Owners Mess^{rs} Bellamy & Co Port belonging to Plymouth

CONDENSERS, &c.—
 Position of Engines Inverted Compound Surface Condensing
 Diameter of Cylinders 33" x 63" Length of Stroke 42" No. of Rev. per minute 60 Point of Cut off, High Pressure 5/8" Low Pressure 3/4"
 Diameter of Screw shaft 10 3/4" Diam. of Tunnel shaft 10 1/4" Diam. of Crank shaft journals 11" Diam. of Crank pin 11" size of Crank webs 12 1/2" x 7 1/2"
 Diameter of screw 14 1/2" Pitch of screw 15.8" No. of blades 4 state whether moveable Yes total surface 50 sq feet
 Feed pumps Two diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes
 Bilge pumps Two diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes
 Where do they pump from Edges of Engine Room & all compartments.
 Donkey Engines Two Size of Pumps 6" x 10" & 4 1/2" x 10" Where do they pump from Sea. Hotwell. Bilge
 Engine Room. After Well. Hotwell & through Condenser.
 Are all the bilge suction pipes fitted with roses Yes Are the roses always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes
 Are there any bilge injections one and sizes 1 1/2" Are they connected to condenser, or to circulating pump Circulating
 Are the pumps worked By Levers attached to Crossheads of both Engines
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Stop Valves & Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the discharge pipes above or below the deep water line above
 Are they each fitted with a discharge valve always accessible on the plating of the vessel Yes Are the blow off cocks fitted with a spigot and brass covering plate Yes
 Are all pipes carried through the bunkers Subs. Suctions How are they protected Wood-casing
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock Before launching
 Is the screw shaft tunnel watertight Yes and fitted with a sluice door Yes worked from Cop. Platform.

BOILERS, &c.—
 Number of Boilers Two Description Cylindrical Mutt Whether Steel or Iron (Steel)
 Working Pressure 80 lbs Tested by hydraulic pressure to 160 lbs Date of test 31st August 1883
 Description of superheating apparatus or steam chest Horizontal Steam Receiver
 Can each boiler be worked separately Yes Can the superheater be shut off and the boiler worked separately No Superheater
 Area of square feet of fire grate surface in each boiler 55" Description of safety valves Direct Spring No. to each boiler Two
 Area of each valve 15.9" Are they fitted with easing gear Yes No. of safety valves to superheater Two area of each valve one
 Are they fitted with easing gear one Smallest distance between boilers and bunkers or woodwork one Diameter of boilers 13" 6"
 Length of boilers 10' 0" description of riveting of shell long. seams Triple Riv Lap circum. seams Double Riv Lap Thickness of shell plates 49/64
 Diameter of rivet holes 1 1/8" whether punched or drilled drilled pitch of rivets 4" Lap of plating 8" Riv.
 Percentage of strength of longitudinal joint 41% working pressure of shell by rules 81 lbs size of manholes in shell 15" x 12"
 Size of compensating rings Flat Rings 6" x 1 3/16" double riveted No. of Furnaces in each boiler 0
 Outside diameter 3' 5" length, top 6' 6" bottom 9' 3" thickness of plates 1/2" description of joint Double Mutt if rings are fitted bottom
 Greatest length between rings 6' 6" working pressure of furnace by the rules 84 combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
 Pitch of stays to ditto, sides 9 1/4" x 9 1/4" back 9 1/4" x 9 1/4" top 9 3/4" x 9 1/4" stays are fitted with nuts or riveted heads Nuts working pressure of plating by
 rules 80 lbs Diameter of stays at smallest part 1 3/8" working pressure of ditto by rules 9.3 lbs end plates in steam space, thickness 1/16"
 Pitch of stays to ditto 14 1/2" x 14 1/2" how stays are secured Nuts & Washers working pressure by rules 80 lbs diameter of stays at
 smallest part 3" working pressure by rules 89 lbs Front plates at bottom, thickness 5/8" Back plates, thickness 5/8"
 Greatest pitch of stays 12" working pressure by rules 83 lbs Diameter of tubes 8 1/2" pitch of tubes 4 3/4" x 4 3/4" thickness of tube
 plates, front 1/16" back 1/16" how stayed Subs pitch of stays 14 1/4" x 9 1/2" width of water spaces 6"
 Diameter of Superheater or Steam chest 4' 3" length 5' 3" thickness of plates 7/16" description of longitudinal joint Lap Riv diam. of rivet holes 15/16"
 Pitch of rivets 2 1/4" working pressure of shell by rules 83 lbs diameter of flue one thickness of plates one If stiffened with rings one
 Distance between rings one working pressure by rules one end plates of superheater, or steam chest; thickness 1/16" how stayed 5 bar stays
2" effective dia Superheater or steam chest; how connected to boiler Stop Valves & Cooper's pipes

DONKEY BOILER— Description *Circular-Vertical 4 Water Tubes in Firebox*
 Made at *Glasgow* by whom made *Hutson & Corbett* when made *1883* where fixed *Stonehold*
 Working pressure *40 lbs* tested by hydraulic pressure to *140* No. of Certificate *1173* fire grate area *19 sq. ft.* description of safety
 valves *Direct Spring* No. of safety valves *one* area of each *9.62* if fitted with easing gear *Yes* if steam from main boilers can
 enter the donkey boiler *No* diameter of donkey boiler *6' 0"* length *12' 0"* description of riveting *Long. Double Rivet*
 Thickness of shell plates *7/16* diameter of rivet holes *3/4"* whether punched or drilled *Yes* pitch of rivets *2 1/2"* lap of plating *3 1/4"*
 per centage of strength of joint *40%* thickness of crown plates *5/8"* stayed by *Eight Bar stays 1 1/4" off set dia*
 Diameter of furnace, top *4' 10"* bottom *5' 4"* length of furnace *5' 9"* thickness of plates *15/32"* description of joint *Lap Single*
 Thickness of furnace crown plates *1/2"* stayed by *Eight Bar stays 1 1/4" dia* working pressure of shell by rules *70 lbs*
 Working pressure of furnace by rules *40 lbs* diameter of uptake *14"* thickness of plates *7/16"* thickness of water tubes *7/16"*
Furnace supported by curved stays pitched 14" x 14" all over

SPARE GEAR. State the articles supplied:—
*2 Connecting Rod Nuts for each end of rods. 2 Main Bearing Nuts
 1 Sub-Coupling Nuts. 1 End Check Valve. 1 Sub-Bridge and
 Lead pump Valves. Assorted Bolt Nuts for various parts of Engine.*

The foregoing is a correct description,
Hutson & Corbett Manufacturer.
James Gillespie

General Remarks (State quality of workmanship, opinions as to class, &c. *The above Engine & Boiler*
have been surveyed during Construction.
The Material and workmanship are good and
were found satisfactory when tested under steam.
And are eligible in my opinion to be noted in
the Society's Register Book. ✠ Lloyds M.C. 10. 83.

*It is submitted that this
 vessel is eligible to be in the
 Register of Shipping + 10. 83
 recommended.*

The amount of Entry Fee .. £ *2 : 0 : 0* received by me,
 Special £ *24 : 15 : 0*
 Donkey Boiler Fee £ *0 : 0 : 0*
 Certificate (if required) .. £ *0 : 0 : 0* *22/10/1883*
 To be sent as per margin.
 Travelling Expenses, if any, £ - *14/6*

J. M. C. Gregor
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
Clyde District

Committee's Minute FRIDAY 20 OCT 1883
+ [Signature]

