

REPORT ON MACHINERY.

Port of Trieste

No. in Survey held at Trieste Date, first Survey 10th Sept. 901 Last Survey 15th Jan. 902
 Reg. Book. Single Screw Steamer "Bucovina" (Number of Visits 23)
 Master — Built at Trieste By whom built Lloyd Arsenal Tons {Gross 2836
 Engines made at Dumbarton By whom made Denny & Co. when made 1901
 Boilers made at Trieste By whom made Denny & Co. Lloyd Arsenal when made 1902.1
 Registered Horse Power — Owners Lloyd Austriaco Port belonging to Trieste
 Nom. Horse Power as per Section 28 348 Is Refrigerating Machinery fitted — Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three
 Dia. of Cylinders 23"-33"-63" Length of Stroke 48" Revs. per minute 78 Dia. of Screw shaft 14 1/2" Lgth. of stern bush 48"
 Dia. of Tunnel shaft 12 1/2" Dia. of Crank shaft journals 13 1/2" Dia. of Crank pin 13 1/8" Size of Crank webs 16 1/2" x 18 1/2" Dia. of thrust shaft under
 collars 13 1/8" Dia. of screw 15 1/2" Pitch of screw 18 1/2" No. of blades 4 State whether moreable yes Total surface 74"
 No. of Feed pumps 2 Diameter of ditto 3 1/4" Stroke 23" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 1 Diameter of ditto 5 1/2" Stroke 23" Can one be overhauled while the other is at work yes
 No. of Donkey Engines 3 Sizes of Pumps see remarks next page No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Three of 4" diameter In Holds, &c. 10, 3 inches in dia. to bilges
 + 2 of 4" to double bottom.
 No. of bilge injections 1 sizes 1 1/2" Connected to condenser to circulating pump yes Is a separate donkey suction fitted in Engine room & size yes one 2"
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valves
 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 yes
 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
 What pipes are carried through the bunkers none How are they protected —
 Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock ✓ Is the screw shaft tunnel watertight yes
 Is it fitted with a watertight door yes worked from top platform.

BOILERS, &c.—(Letter for record R) Total Heating Surface of Boilers 4634 sq. feet. Is forced draft fitted yes
 No. and Description of Boilers 2: Cylind. Mult Single ender Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs.
 Date of test 30th Dec Can each boiler be worked separately yes Area of fire grate in each boiler 56.4 sq. ft. No. and Description of safety valves to
 each boiler 1 double spring Area of each valve 7.66 sq. in. Pressure to which they are adjusted 205 lbs. Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 13" Mean dia. of boilers 14 9/8" Length 11 8/8" Material of shell plates Steel
 Thickness 1 1/8" Range of tensile strength 23-32 Are they welded or flanged no Descrip. of riveting: cir. seams ENDS. double
 Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 9" 4 1/2" 1 row 3 row width of butt straps 21 3/4"
 Per centages of strength of longitudinal joint 93 Working pressure of shell by rules 227 lbs. Size of manhole in shell 16 x 12"
 Size of compensating ring 6 3/4" x 1 1/8" No. and Description of Furnaces in each boiler Heigham Material steel Outside diameter 47 1/4"
 Length of plates 8.5" Thickness of plates 3/8" Description of longitudinal joint weld No. of strengthening rings none
 Working pressure of furnace by the rules 213 Combustion chamber plates: Material steel Thickness: Sides 7/8" Back 7/8" Top 1 1/8" Bottom 7/8"
 Pitch of stays to ditto: Sides 7 1/2" x 18" Back 7 1/2" x 18" Top 7 1/2" x 18" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 218
 Material of stays Iron Diameter at smallest part 1 1/2" x 1 1/2" Area supported by each stay 63" Working pressure by rules 244 lbs. End plates in steam space:
 Material Steel Thickness 1 1/2" Pitch of stays 15 1/2" x 15 1/2" How are stays secured D.N. & W. Working pressure by rules 208 lbs. Material of stays steel
 Diameter at smallest part 2 1/8" Area supported by each stay 241" Working pressure by rules 233 lbs. Material of Front plates at bottom steel
 Thickness 1 5/8" Material of Lower back plate steel Thickness 1 5/8" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 254 lbs.
 Diameter of tubes 2 1/2" Pitch of tubes 3 1/2" x 13 3/4" Material of tube plates steel Thickness: Front 3/2" Back 3/4" Mean pitch of stays 2 1/4"
 Pitch across wide water spaces 13 1/2" Working pressures by rules 244 lbs. 336 lbs. Rinders to Chamber tops: Material steel Depth and
 thickness of girder at centre 9 1/2" x 1 1/4" Length as per rule 32 1/2" Distance apart 7 7/8" Number and pitch of Stays in each 3: 7 1/2"
 Working pressure by rules 227 lbs. Superheater or Steam chest; see connected to boiler none 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
 holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —
 If 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 —

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