

REPORT ON MACHINERY.

No. 2839

THU. JAN 25. 1912

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Date of writing Report 20.1.12 When handed in at Local Office Trieste Port of Trieste
 Date, First Survey Oct 19th 1910 Last Survey 16th January 1912
 in Survey held at Trieste (Arsenale N° 126) (Number of Visits 27)
 on the SS. HELOUAN Tons Gross 1912 Net 1912
 Master Martinovich Built at Trieste By whom built Lloyd's Arsenal When built 1912
 Engines made at Trieste By whom made Lloyd's Arsenal when made 1912
 Boilers made at Greenock Trieste By whom made Caird & Co & Lloyd's Arsenal when made 1911/2
 Registered Horse Power 1580 Owners Lloyd Austriaco Port belonging to Trieste
 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 m. Horse Power as per Section 28 1580
 ENGINES, &c.—Description of Engines Steam screw. Quadruple Exp. No. of Cylinders 4 No. of Cranks 4
 Dia. of Cylinders 27 1/2 Length of Stroke 54 Revs. per minute 90 Dia. of Screw shaft 15 1/8 as per rule 15 1/8 Material of screw shaft Iron
 the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight
 the propeller boss yes If the liner is in more than one length are the joints burned yes If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two
 bearings are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 5-4 1/2
 Dia. of Tunnel shaft 14 3/4 as per rule 14 3/4 Dia. of Crank shaft journals 15 1/2 as per rule 15 1/2 Dia. of Crank pin 16 1/4 Size of Crank webs 3 1/2 x 10 3/8 Dia. of thrust shaft under
 bars 16 1/4 Dia. of screw 17.3 Pitch of Screw 23.6 No. of Blades 3 State whether moveable yes Total surface 92.5
 No. of Feed pumps 2 Diameter of ditto 9 1/2 x 12 1/4 Stroke 26 Can one be overhauled while the other is at work yes see Trieste Ltr 9.2.12
 No. of Bilge pumps 4 Diameter of ditto 8 x 8 Stroke 8 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 2 Sizes of Pumps 7 x 5 x 12 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 44 x 32 In Boiler Rooms 44 x 32 In Holds, &c. 2 in each hold 32 Tunnel well
 No. of Bilge Injections 2 sizes 10 Connected to condenser, or to circulating pump Circ. Is a separate Donkey Suction fitted in Engine room & size yes 3 1/2
 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 yes
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks 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
 That pipes are carried through the bunkers none How are they protected yes
 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
 Dates of examination of completion of fitting of Sea Connections 24 July 1911 of Stern Tube 24 July 1911 Screw shaft and Propeller 24 July 1911
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Deck (Stone patent)
 MANUFACTURERS, &c.—(Letter for record T) Manufacturers of Steel D. Colvener Sons
 Total Heating Surface of Boilers 24000 sq ft Is Forced Draft fitted yes No. and Description of Boilers 8 Marine Single ended
 Working Pressure 215 lbs. Tested by hydraulic pressure to 430 lbs. Dates of test 10/10/11 & 18/10/11 Nos of Certificate 117 & 118
 Can each boiler be worked separately yes Area of fire grate in each boiler 70 sq ft No. and Description of Safety Valves to
 each boiler Two spring loaded Area of each valve 11.8 sq in Pressure to which they are adjusted 220 lbs. Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2-3 in Mean dia. of boilers 16-6 Length 11-7 1/2 Material of shell plates Steel
 Thickness 1 1/2 Range of tensile strength 30-34 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap OK
 Long. seams Stitch Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 9 7/8 Lap of plates or width of butt straps 2 1/4
 Percentages of strength of longitudinal joint 88 Working pressure of shell by rules 222 lbs. Size of manhole in shell 16 x 12
 Size of compensating ring 8 x 12 No. and Description of Furnaces in each boiler 4 Deighton Material Steel Outside diameter 44 1/4
 Length of plain part 8-2 3/8 Thickness of plates 3 3/8 Description of longitudinal joint held No. of strengthening rings 18
 Working pressure of furnace by the rules 227 lbs. Combustion chamber plates: Material Steel Thickness: Sides 3/8 Back 2/32 Top 3/8 Bottom 1/8
 Pitch of stays to ditto: Sides 8 x 7 3/8 Back 8 x 8 Top 8 7/8 x 7 If stays are fitted with nuts or riveted heads Auto. Working pressure by rules 213 lbs.
 Material of stays Iron Diameter at smallest part 1 1/2 Area supported by each stay 65 sq in Working pressure by rules 215 lbs. End plates in steam space:
 Material Steel Thickness 1 1/2 Pitch of stays 24 x 18 1/2 How are stays secured Stitch Working pressure by rules 232 lbs. Material of stays Steel
 Diameter at smallest part 3 1/2 Area supported by each stay 44 1/2 Working pressure by rules 231 lbs. Material of Front plates at bottom Steel
 Thickness 3/32 Material of Lower back plate Steel Thickness 3/32 Greatest pitch of stays 13 1/4 Working pressure of plate by rules 26 7/8
 Diameter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates Steel Thickness: Front 1 1/2 Back 3/4 Mean pitch of stays 7 1/2
 Pitch across wide water spaces 13 1/2 Working pressures by rules 22 lbs. Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 10 x 13 1/4 Length as per rule 32 1/2 Distance apart 8 7/8 Number and pitch of stays in each 2-7
 Working pressure by rules 252 lbs. Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 Separately yes Diameter 10 Length 10 Thickness of shell plates 3/32 Material Steel Description of longitudinal joint Stitch Diam. of rivet
 holes 1 1/2 Pitch of rivets 9 7/8 Working pressure of shell by rules 222 lbs. Diameter of flue 10 Material of flue plates Steel Thickness 3/32
 If stiffened with rings yes Distance between rings 10 Working pressure by rules 222 lbs. End plates: Thickness 1 1/2 How stayed yes
 Working pressure of end plates 252 lbs. Area of safety valves to superheater 10 Are they fitted with easing gear yes

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