

# REPORT ON MACHINERY.

No. 2342

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Date of writing Report 27. 1. 1910 When handed in at Local Office 27. 1. 1910 Port of Trieste  
 Date, First Survey 1. 9. 09 Last Survey 24. 1. 1910  
 in Survey held at Trieste (Number of Visits 23)  
 on the S. S. "Gastein" Lloyd Austriaco N<sup>o</sup> 119 Tons { Gross 3819  
 Net 2357  
 Master N. Chersich Built at Trieste By whom built Lloyd Austriaco When built 1910-1  
 Engines made at Trieste By whom made Lloyd Austriaco when made 1910-1  
 Boilers made at Trieste By whom made Lloyd Austriaco when made 1910-1  
 Registered Horse Power (390) Owners Lloyd Austriaco Port belonging to Trieste  
 Nom. Horse Power as per Section 28 390 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 23 1/2" x 37" x 66" Length of Stroke 48" Revs. per minute 85 Dia. of Screw shaft 13 7/8" Material of Iron  
 as per rule 13 7/8" as fitted 14 1/2" screw shaft  
 Is 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 No 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 whole length  
 when the liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 4' 10"  
 Dia. of Tunnel shaft 12 1/2" as per rule 12 1/2" as fitted 12 1/2" Dia. of Crank shaft journals 13 25/32" as per rule 13 25/32" as fitted 13 1/2" Dia. of Crank pin 13 5/8" Size of Crank webs 8 7/8" Dia. of thrust shaft under  
 bars 13 1/2" Dia. of screw 16' 0" Pitch of Screw 18 feet No. of Blades 4 State whether moveable Yes Total surface 75.4 sq ft  
 No. of Feed pumps 2 Diameter of ditto 3 3/4" Stroke 24" Can one be overhauled while the other is at work Yes  
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes  
 No. of Donkey Engines One Sizes of Pumps 8" x 8" x 8" No. and size of Suctions connected to both Bilge and Donkey pumps  
 Engine Room 2 of 3 1/2" diam. & 2 of 3" diam. In Holds, &c. 10 of 3 1/2" diam.  
 No. 1-2, No. 2-2, No. 3-2, No. 4-2, No. 5-2, After peak 1, Forepeak 1, Tunnel well 1.  
 No. of Bilge Injections 1 sizes 12" Connected to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 2 of 3"  
 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  
 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  
 What pipes are carried through the bunkers Tank & Bilges How are they protected Thick wood casings  
 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 17. 11. 09 of Stern Tube 17. 11. 09 Screw shaft and Propeller 11. 1. 10  
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Deck

BOILERS, &c.—(Letter for record R) Manufacturers of Steel D. Colville & Sons  
 Total Heating Surface of Boilers 5379 Is Forced Draft fitted Yes No. and Description of Boilers 2 Cylinders Mult. Single end  
 Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 14. 12. 09 No. of Certificate 111 & 112  
 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.2 sq. feet No. and Description of Safety Valves to  
 each boiler 2 Spring loaded Area of each valve 11" 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 20" Mean dia. of boilers 15' 9" Length 11' 9" Material of shell plates Steel  
 Thickness 1 3/8" Range of tensile strength 29 to 33 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams double above  
 long. seams D. B. Straps Diameter of rivet holes in long. seams 1 7/8" Pitch of rivets 9 1/2" & 4 3/4" Lap of plates or width of butt straps 21 3/4"  
 Per centages of strength of longitudinal joint rivets 92.4% Working pressure of shell by rules 206 lbs Size of manhole in shell 16" x 12"  
 plate 84.8% Size of compensating ring McNeil No. and Description of Furnaces in each boiler 3 Deighton Material Steel Outside diameter 50 1/4"  
 Length of 38' 6 1/2" thickness of plates 5/8" Description of longitudinal joint weld No. of strengthening rings none  
 Working pressure of furnace by the rules 200 lbs Combustion chamber plates: Material Steel Thickness: Sides 3/32" Back 3/32" Top 3/32" Bottom 1 1/8"  
 Pitch of stays to ditto: Sides 9" x 8" Back 8 7/8" & 8 1/4" Top 7 1/2" & 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 203 lbs  
 Material of stays Iron Diameter at smallest part 1 5/8" Area supported by each stay 73" Working pressure by rules 226 lbs End plates in steam space:  
 Material Steel Thickness 1 1/2" Pitch of stays 22" & 22 1/2" How are stays secured D. nuts & washers Working pressure by rules 207 lbs Material of stays steel  
 Diameter at smallest part 3 1/2" Area supported by each stay 487" Working pressure by rules 209 Material of Front plates at bottom Steel  
 Thickness 1" Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 14" Working pressure of plate by rules 227 lbs  
 Diameter of tubes 2 1/2" Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates Steel Thickness: Front 1" x 1/32" Back 3/4" Mean pitch of stays 7 1/2"  
 Pitch across wide water spaces 13 1/2" Working pressures by rules 224 lbs 300 lbs Girders to Chamber tops: Material Steel Depth and  
 thickness of girder at centre 10" x 1 1/4" Length as per rule 31.9" Distance apart 7 1/2" Number and pitch of stays in each 2:9"  
 Working pressure by rules 242 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  
 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 —

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

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