

## REPORT ON MACHINERY.

Port of Genoa

MUN 17 APL 1899

Received at London Office 18

No. in Survey held at Sestri Ponente  
Reg. Book.Date, first Survey 10.5.98 Last Survey 12 April 1899  
(Number of Visits 32)on the Steel Sparth Screw Steamer "Venus"Tons { Gross 4051  
Net 2641Master S. Crociani Built at Sestri Ponente By whom built N. Odero & C. A.When built 1899Engines made at Sestri Ponente By whom made N. Odero & C. A.when made 1899Boilers made at Sestri Ponente By whom made N. Odero & C. A.when made 1899Registered Horse Power 480 282 Owners Soc. Com. Ital. di Nav.Port belonging to Genoa

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted NoIs Electric Light fitted No

ENGINES, &c.—Description of Engines Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 22 3/8, 36 1/2, 60 1/2 Length of Stroke 39 3/8 Revs. per minute 70 Dia. of Screw shaft 11 1/2 as per rule 11 1/2 as fitted 12 Lgth. of stern bush 48

Dia. of Tunnel shaft 10 3/16 as per rule 10 3/16 as fitted 10 3/16 Dia. of Crank shaft journals 11 1/16 as per rule 11 1/16 as fitted 11 1/16 Dia. of Crank pin 11 1/16 Size of Crank webs 8 Dia. of thrust shaft under collars 11 3/8 Dia. of screw 17 5/8 Pitch of screw 14 5/8 No. of blades 4 State whether moveable No Total surface 96.80 sq feet

No. of Feed pumps 2 Diameter of ditto 3 1/2 Stroke 19 1/16 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 19 1/16 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps Ballast: 5 1/16 x 8 1/4 x 9 1/16 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 3 Donkey: 7 1/16 x 5 1/2 x 6 3/16 Holds, &c. 2 in each hold, one port, one starboard

Lide Diameter 3 1/2

No. of bilge injections 1 sizes 6 1/16 Connected to condenser, or to circulating pump Yes Is a separate donkey suction fitted in Engine room of size Yes 4

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 All cocks except Boiler Blow off

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 None How are they protected None

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 They are

When were stern tube, propeller, screw shaft, and all connections examined in dry dock On Stock Is the screw shaft tunnel watertight Yes

Is it fitted with a watertight door Yes worked from Main St

BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 4856 sq ft Is forced draft fitted No

No. and Description of Boilers 2 Return. tubular Working Pressure 180 lb Tested by hydraulic pressure to 360 lb

Date of test 5 and 11 Oct 1898 Can each boiler be worked separately Yes Area of fire grate in each boiler 77.4 sq ft and Description of safety valves to each boiler 2 Spring loaded in pairs of each valve 7.80 sq ft pressure to which they are adjusted 182 lb Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 8 Mean dia. of boilers 13.10 3/4 Length 10.11 1/2 Material of shell plates Steel

Thickness 1 1/4 Range of tensile strength 28-32 Are they welded or flanged Flang Descrip. of riveting: cir. seams Double and triple butt seams butts triple

Diameter of rivet holes in long. seams 1 3/8 Pitch of rivets 10 out row 8 1/2 Lap of plates or width of butt straps 16 1/2

Per centages of strength of longitudinal joint 88.3 Working pressure of shell by rules 178.7 lb Size of manhole in shell None

Size of compensating ring None No. and Description of Furnaces in each boiler 4 Plain Material Steel Outside diameter 2.11.13/16

Length of plain part top 7.1.3/16 bottom 8.2 Thickness of plates top 3/4 bottom 3/4 Description of longitudinal joint Double butt straps No. of strengthening rings None

Working pressure of furnace by the rules 180 lb Combustion chamber plates: Material Steel Thickness: Sides 12/20 Back 12/20 Top 12/20 Bottom 12/20

Pitch of stays to ditto: Sides 6 1/2 x 7 1/4 Back 7 1/4 Top 6 1/2 x 7 1/4 If stays are fitted with nuts or riveted heads top rose nuts other riveted Working pressure by rules 179.7 lb

Material of stays Steel Diameter at smallest part 1 1/2 Area supported by each stay 4.9 sq ft Working pressure by rules 184 lb End plates in steam space:

Material Steel Thickness 18/20 Pitch of stays 15 3/8 x 15 3/8 How are stays secured Double out Working pressure by rules 184 lb Material of stays Steel

Diameter at smallest part 2 1/2 Area supported by each stay 24.18 sq ft Working pressure by rules 182 lb Material of Front plates at bottom Steel

Thickness 16/20 Material of Lower back plate Steel Thickness 16/20 Greatest pitch of stays 7 1/4 Working pressure of plate by rules 179.7 lb

Diameter of tubes 3 1/2 Pitch of tubes 4.5/16 Material of tube plates Steel Thickness: Front 18/20 Back 16/20 Mean pitch of stays 7 1/4

Pitch across wide water spaces 14.3/16 Working pressures by rules 272 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 5.13/16 x 19/20 Length as per rule 2.5/8 Distance apart 7.3/4 Number and pitch of Stays in each 3-6 3/4

Working pressure, by rules 182 lb Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately None

Diameter None Length None Thickness of shell plates None Material None Description of longitudinal joint None Diam. of rivet holes None Pitch of rivets None Working pressure of shell by rules None Diameter of flue None Material of flue plates None Thickness None

If stiffened with rings None Distance between rings None Working pressure by rules None End plates: Thickness None How stayed None

Working pressure of end plates None Area of safety valves to superheater None Are they fitted with easing gear None



DONKEY BOILER—		No.	Description	When made	Where fixed
Made at	By whom made				
Working pressure	tested by hydraulic pressure to	No. of Certificate	Fire grate area	Description of safety valves	
No. of safety valves	Area of each	Pressure to which they are adjusted	If fitted with easing gear	If steam from main boilers can enter the donkey boiler	
Dia. of donkey boiler	Length	Material of shell plates	Thickness	Range of tensile strength	
Descrip. of riveting long. seams	Dia. of rivet holes	Whether punched or drilled	Pitch of rivets		
Lap of plating	Per centage of strength of joint	Rivets Plates	Thickness of shell crown plates	Radius of do.	No. of Stays to do.
Dia. of stays.	Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint
Thickness of furnace crown plates	Stayed by	Working pressure of shell by rules			
Working pressure of furnace by rules	Diameter of uptake	Thickness of uptake plates	Thickness of water tubes		

SPARE GEAR for *Motor Boilers* One propeller & connecting rods bolts and nuts, 2 Main bearings, 9 Crankpins bolts, 2 feed, 2 Bridge, 2 air pumps valves, 2 Crank pin bearings, 1 set rubber valves for Circulating pump, 1 1/2 inch tubes, 2 1/2 Glands, 1/2 set of fire bars, Spring for safety valves of boiler, cylinder and face pump.

The foregoing is a correct description,  
 Manufacturer. *J. J. O'Sullivan*

Dates of Survey while building  
 During progress of work in shops - 1898 Mar 10, 28 June 6, 14, 16, 29, July 2, 7, 18, 23, Aug 4, 9, 17, 28 Sept 6  
 During erection on board vessel - 1899 Jan 5, 11, Feb 21, March 11, 13, 21, April 1, 12, 19, 26, May 3, 10, 17, 24, June 7, 14, 21, 28, July 5, 12, 19, 26, Aug 2, 9, 16, 23, Sept 6, 13, 20, 27, Oct 4, 11, 18, 25, Nov 1, 8, 15, 22, Dec 5, 12, 19, 26, Jan 2, 9, 16, 23, Feb 6, 13, 20, 27, Mar 6, 13, 20, 27, Apr 3, 10, 17, 24, May 7, 14, 21, 28, June 4, 11, 18, 25, July 2, 9, 16, 23, Aug 6, 13, 20, 27, Sept 3, 10, 17, 24, Oct 7, 14, 21, 28, Nov 4, 11, 18, 25, Dec 2, 9, 16, 23, Jan 6, 13, 20, 27, Feb 3, 10, 17, 24, Mar 7, 14, 21, 28, Apr 4, 11, 18, 25, May 2, 9, 16, 23, June 6, 13, 20, 27, July 3, 10, 17, 24, Aug 7, 14, 21, 28, Sept 4, 11, 18, 25, Oct 2, 9, 16, 23, Nov 6, 13, 20, 27, Dec 3, 10, 17, 24, Jan 7, 14, 21, 28, Feb 4, 11, 18, 25, Mar 8, 15, 22, 29, Apr 5, 12, 19, 26, May 3, 10, 17, 24, June 7, 14, 21, 28, July 4, 11, 18, 25, Aug 8, 15, 22, 29, Sept 5, 12, 19, 26, Oct 3, 10, 17, 24, Nov 7, 14, 21, 28, Dec 4, 11, 18, 25, Jan 8, 15, 22, 29, Feb 5, 12, 19, 26, Mar 9, 16, 23, 30, Apr 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