

REPORT ON MACHINERY.

No. 2901

Port of Genoa

Received at London Office MUN. 6 JUL 1903

No. in Survey held at Genoa

Date, first Survey April 15th Last Survey July 4th 1903

eg. Book.

(Number of Visits 5)

on the Sonley Boiler for the Bk "Regina Elena"

Gross 2463.82

Net 2364.79

Master G. Ameglio Built at Porto Tino By whom built Soc. Espr. Pacini

When built 1903

Engines made at Genoa By whom made Societa' Esercizio Pacini - Genoa when made 1903

Boilers made at Genoa By whom made Societa' Esercizio Pacini - Genoa when made 1903

Registered Horse Power Owners Cavaliere Pietro Milesi Port belonging to Genoa

nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines

No. of Cylinders **No. of Cranks**

Dia. of Cylinders **Length of Stroke** **Revs. per minute** **Dia. of Screw shaft** **Material of screw shaft**

Dia. of Tunnel shaft **Dia. of Crank shaft journals** **Dia. of Crank pin** **Size of Crank webs** **Dia. of thrust shaft under**

Blades **Dia. of screw** **Pitch of screw** **No. of blades** **State whether moveable** **Total surface**

No. of Feed pumps **Diameter of ditto** **Stroke** **Can one be overhauled while the other is at work**

No. of Bilge pumps **Diameter of ditto** **Stroke** **Can one be overhauled while the other is at work**

No. of Donkey Engines **Sizes of Pumps** **No. and size of Suctions connected to both Bilge and Donkey pumps**

Engine Room **In Holds, &c.**

No. of bilge injections **sizes** **Connected to condenser, or to circulating pump** **Is a separate donkey suction fitted in Engine room & size**

Are all the bilge suction pipes fitted with roses **Are the roses in Engine room always accessible** **Are the sluices on Engine room bulkheads always accessible**

Are all connections with the sea direct on the skin of the ship **Are they Valves or Cocks**

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates **Are the discharge pipes above or below the deep water line**

Are they each fitted with a discharge valve always accessible on the plating of the vessel **Are the blow off cocks fitted with a spigot and brass covering plate**

How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

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

Is it fitted with a watertight door **worked from**

BOILERS, &c.— (Letter for record) Total Heating Surface of Boilers Is forced draft fitted

No. and Description of Boilers **Working Pressure** **Tested by hydraulic pressure to**

Date of test **Can each boiler be worked separately** **Area of fire grate in each boiler** **No. and Description of safety valves to**

Each boiler **Area of each valve** **Pressure to which they are adjusted** **Are they fitted with easing gear**

Smallest distance between boilers or uptakes and bunkers or woodwork **Mean dia. of boilers** **Length** **Material of shell plates**

Thickness **Range of tensile strength** **Are they welded or flanged** **Descrip. of riveting: cir. seams** **long. seams**

Diameter of rivet holes in long. seams **Pitch of rivets** **Lap of plates or width of butt straps**

Percentages of strength of longitudinal joint **Working pressure of shell by rules** **Size of manhole in shell**

No. of compensating ring **No. and Description of Furnaces in each boiler** **Material** **Outside diameter**

Length of plain part **Thickness of plates** **Description of longitudinal joint** **No. of strengthening rings**

Working pressure of furnace by the rules **Combustion chamber plates: Material** **Thickness: Sides** **Back** **Top** **Bottom**

Pitch of stays to ditto: Sides **Back** **Top** **If stays are fitted with nuts or riveted heads** **Working pressure by rules**

Material of stays **Diameter at smallest part** **Area supported by each stay** **Working pressure by rules** **End plates in steam space:**

Material **Thickness** **Pitch of stays** **How are stays secured** **Working pressure by rules** **Material of stays**

Diameter at smallest part **Area supported by each stay** **Working pressure by rules** **Material of Front plates at bottom**

Thickness **Material of Lower back plate** **Thickness** **Greatest pitch of stays** **Working pressure of plate by rules**

Diameter of tubes **Pitch of tubes** **Material of tube plates** **Thickness: Front** **Back** **Mean pitch of stays**

Pitch across wide water spaces **Working pressures by rules** **Girders to Chamber tops: Material** **Depth and**

Thickness of girder at centre **Length as per rule** **Distance apart** **Number and pitch of Stays in each**

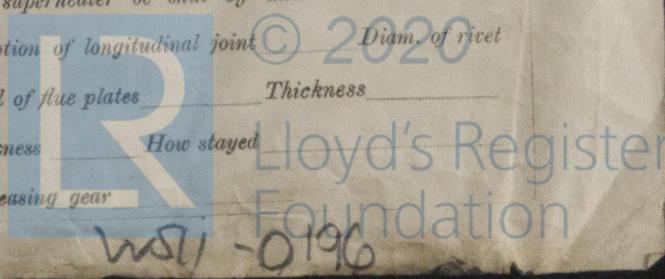
Working pressure by rules **Superheater or Steam chest; how connected to boiler** **Can the superheater be shut off and the boiler worked**

Material **Diameter** **Length** **Thickness of shell plates** **Material** **Description of longitudinal joint** **Diam. of rivet**

Material **Pitch of rivets** **Working pressure of shell by rules** **Diameter of flue** **Material of flue plates** **Thickness**

Stays **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**



WST/ -0196

Regina Elena

no 2901

DONKEY BOILER— No. 46 Description *Vertical Cochran's system*
 Made at *Genoa* By whom made *Societa' Esercizio Bacini Genova* When made *1903* Where fixed *on deck*
 Working pressure *51* tested by hydraulic pressure to *102* No. of Certificate *46* Fire grate area *5.4* Description of safety valves *Spring*
 No. of safety valves *2* Area of each *1.8* Pressure to which they are adjusted *50* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler
 Dia. of donkey boiler *49.21* Length *108.25* Material of shell plates *steel* Thickness *.39* Range of tensile strength *26-30* Descrip. of riveting long-seams *Double Lap* Dia. of rivet holes *.78* Whether punched or drilled *yes* Pitch of rivets *2.5*
 Lap of plating *4* Per centage of strength of joint Rivets *81* Plates *69* Thickness of shell crown plates *.47* Radius of do. *45.2* No. of Stays to do. *none*
 Dia. of stays *had sphere* Diameter of furnace Top *18* Bottom *40* Length of furnace *30* Thickness of furnace plates *.39* Description of joint *single lapp* Thickness of furnace crown plates *.39* Stayed by
 Working pressure of furnace by rules *230* Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:—

None required

The foregoing is a correct description, **SOCIETA' ESERCIZIO BACINI**
 Manufacturer. *L'Amministratore Delegato*

Dates of Survey while building } *1903. April 15-27. May 8th July 1. 14.*
 During progress of work in shops - - -
 During erection on board vessel - - -
 Total No. of s *5* Is the approved plan of main boiler forwarded herewith *yes*
 " " " donkey " " " *yes*

General Remarks (State quality of workmanship, opinions as to class, &c.)
This donkey boiler has been made under the society's inspection, the materials & workmanship are good. The boiler has been tested by hydraulic pressure to 102 lbs per sq. inch & found tight & sound. The safety valves adjusted under steam to blow at 51 lbs □.
This vessel is therefore eligible in my opinion to have the record of D.B.S. 7.03 recorded in the R. Book.—

It is submitted that this vessel is eligible for THE RECORD + DB 7.03. Working pressure 51 lb.
C.M. 6.7.03
J.S. 6.7.03

The amount of Entry Fee..	£ - : - :	When applied for, <i>July 4th 1903</i>
Special	£ - : - :	
Donkey Boiler Fee .. .	£ 2 : 2 :	When received, <i>July 4th 1903</i>
Travelling Expenses (if any) £	: 2 :	

Maurice Peterson
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **TUES. 7 JUL 1903**
 Assigned *+ DB 7.03*

