

REPORT ON MACHINERY.

No. 4910

Received at London Office

MON. JAN. 3 1921

of writing Report **29. 11. 1920** When handed in at Local Office **Dec 9 1920** Port of **Trieste**
 in Survey held at **Trieste** Date, First Survey **Dec 24, 1914** Last Survey **Nov 20 1920**
 Book. on the **S.S. "Timaro" ex "Ombla"** (Number of Visits **75**)
 ter **C. Olivetti** Built at **Trieste** By whom built **Cantieri S. Rocco S.A.** Tons { Gross **7433.86**
 ines made at **Trieste** By whom made **Stalimento Scimia Trieste** when made **1920.** Net **4661.83.**
 lers made at **Hamburg & Trieste** By whom made **Blohm & Ross and Stalimento Scimia Trieste** made **1917.**
 istered Horse Power Owners **Navigazione Libera Trieste** Port belonging to **Trieste**
 . Horse Power as per Section 28 **681.** Is Refrigerating Machinery fitted for cargo purposes **No.** Is Electric Light fitted **Yes.**

GINES, &c.—Description of Engines **Triple Expansion** No. of Cylinders **3** No. of Cranks **3**
 . of Cylinders **32.5 1/2 x 83** Length of Stroke **54** Revs. per minute **70** Dia. of Screw shaft as per rule **16.46** Material of **S. Steel**
 he 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
 een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive **Yes.** If two
 rs are fitted, is the shaft lapped or protected between the liners **Yes.** Length of stern bush **6'-0 1/4**
 . of Tunnel shaft as per rule **16.46** Dia. of Crank shaft journals as per rule **16.25** Dia. of Crank pin **14** Size of Crank webs **8 1/2 x 10** Dia. of thrust shaft under
 ars **14** Dia. of screw **20'-0** Pitch of Screw **18'-9** No. of Blades **4** State whether moveable **No** Total surface **128.36**
 of Feed pumps **2** Diameter of ditto **4** Stroke **30** Can one be overhauled while the other is at work **Yes.**
 of Bilge pumps **2** Diameter of ditto **4 1/2** Stroke **30** Can one be overhauled while the other is at work **Yes.**
 of Donkey Engines **5** Sizes of Pumps **2 1/2 x 10 1/2 x 10 1/2** No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room **6'2 1/2 x 2'2 1/2 in both room** In Holds, &c. **Forward 10'2 1/2 x 1'2 1/2**

. of Bilge Injections **1** sizes **1 1/4** Connected to condenser, or to circulating pump **Yes.** Is a separate Donkey Suction fitted in Engine room & size **2'2 1/2**
 re 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.**
 re all connections with the sea direct on the skin of the ship **Yes.** Are they Valves or Cocks **Valves.**
 re 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**
 re 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.**
 hat pipes are carried through the bunkers **Forward hold Suctions** How are they protected **Close casing**
 re all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times **Yes.**
 re the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges **Yes.**
 the Screw Shaft Tunnel watertight **See hull report** Is it fitted with a watertight door **Yes.** worked from **Top platform**

ILERS, &c.—(Letter for record **S**) Manufacturers of Steel **Physsen & Co**
 tal Heating Surface of Boilers **9851.26** Is Forced Draft fitted **Yes** No. and Description of Boilers **4 Single ended.**
 orking Pressure **180 lbs.** Tested by hydraulic pressure to **360 lbs.** Date of test **6/12/17** No. of Certificate **175, 6, 7 & 178**
 an each boiler be worked separately **Yes.** Area of fire grate in each boiler **59.856** No. and Description of Safety Valves to
 ch boiler **2 direct spring** Area of each valve **9.62** Pressure to which they are adjusted **180 lbs.** Are they fitted with easing gear **Yes.**
 smallest distance between boilers or uptakes and bunkers on woodwork **4'-0** Mean dia. of boilers **15'-4** Length **11'-11** Material of shell plates **S**
 thickness **1 1/4** Range of tensile strength **28/32** Are the shell plates welded or flanged **No.** Descrip. of riveting: air seams **DR lap.**
 ng. seams **DB & S R. lap.** Diameter of rivet holes in long. seams **1.28** Pitch of rivets **8.82** Lap of plates or width of butt straps **18.81**
 per centages of strength of longitudinal joint rivets **85.6** Working pressure of shell by rules **184** Size of manhole in shell **19.68 x 15.45**
 size of compensating ring **33.67 x 36.4** No. and Description of Furnaces in each boiler **3 Timaro** Material **S** Outside diameter **44.25**
 length of plain part top **✓** Thickness of plates crown **.59** Description of longitudinal joint **Weld.** No. of strengthening rings **5**
 bottom **✓** Thickness: Sides **.67** Back **.59** Top **.67** Bottom **.67**
 Working pressure of furnace by the rules **200** Combustion chamber plates: Material **S** Thickness: Sides **.67** Back **.59** Top **.67** Bottom **.67**
 Pitch of stays to ditto: Sides **8.82 x 8.5** Back **8.5 x 8.15** Top **8.82 x 9.9** stays are fitted with nuts or riveted heads **Auto** Working pressure by rules **196**
 Material of stays **S** Area at smallest part **2.03** Area supported by each stay **45.0** Working pressure by rules **216** End plates in steam space:
 Material **S** Thickness **1.4** Pitch of stays **23 x 21** How are stays secured **DR nuts & washers** Working pressure by rules **206** Material of stays **S**
 Area at smallest part **8.48** Area supported by each stay **46.1** Working pressure by rules **191** Material of Front plates at bottom **S**
 Thickness **1.02** Material of Lower back plate **S** Thickness **.94** Greatest pitch of stays **16.44 x 9.84** Working pressure of plate by rules **180**
 Diameter of tubes **3** Pitch of tubes **4.25 x 4.17** Material of tube plates **S** Thickness: Front **1.02** Back **.83** Mean pitch of stays **10.03**
 Pitch across wide water spaces **14.25** Working pressures by rules **232** Girders to Chamber tops: Material **S** Depth and
 thickness of girder at centre **9.25 x 1.5** Length as per rule **34.25** Distance apart **8** Number and pitch of stays in each **32 8.82**
 Working pressure by rules **196** Steam dome: description of joint to shell **S** % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed
 UPERHEATER. Type **Smidt** Date of Approval of Plan Tested by Hydraulic Pressure to **500 lbs.**
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler **Yes**
 Diameter of Safety Valve **2** Pressure to which each is adjusted **187.** Is Easing Gear fitted **Yes**

W90-0178

IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— *Two each of connecting rod top end and bottom end bolts, one set of coupling bolts. Two main bearing bolts & nuts, one pair bottom end brasses & top end brasses. one set of feed & lift pump valves, screw shaft. (stamped No. 4349. MK). propeller. eccentric sheave shaft. condenser tube & ferrules, and a quantity of assorted bolts & nuts, and iron bars of various sizes.*

The foregoing is a correct description,

STABILIMENTO TECNICO TRIESTINO

Mr. Ant. Krump

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1914 Dec 24, 1915 Jan 18, Feb 2, 17, 24, Mar 23, Apr 12, 13, 19, May 8, 7, 18, 27, June 8, 16, July 20, Aug 19, Sep 3, 11, 22, 23, Oct 22, Dec 15, 23, 1916 Jan 3, 25, 31, Mar 4, Apr 7, 18, May 13, 18, Aug 7, 30, Sep 19, 1917 Feb 9, Mar 27, Apr 18, 19, 21, June 8, July 16, 25, Oct 13, 26, 30 Dec 5, 6, 7, 1918 Jan 2, Feb 8, Oct 11, 16, 1919 Mar 6, 15, Apr 16, May 23, Aug 4, Sep 16, Dec 3, 1920 Jan 26, June 29, July 21, Aug 2, 22, 25, 26, 31, 1921 Sep 14, 24, Oct 28, Nov 12, 19, 20.
Total No. of visits *seventy five.*

Is the approved plan of main boiler forwarded herewith *Yes.*

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *22/10/15* Slides *15/12/15* Covers *4/8/15* Pistons *22/10/15* Rods *9/6/15*
Connecting rods *3/9/15* Crank shaft *11/14* Thrust shaft *11/14* Tunnel shafts *3/16* Screw shaft *8-17* Propeller *30/10/17*
Stern tube *9/3/15* Steam pipes tested *2/8/20* Engine and boiler seatings *8/3/18* Engines holding down bolts *11/10/18*
Completion of pumping arrangements *25/10/20* Boilers fixed *25/10/20* Engines tried under steam *12/11/20*
Completion of fitting sea connections *23/8/20* Stern tube *6/12/17* Screw shaft and propeller *23/8/20*
Main boiler safety valves adjusted *12/11/20* Thickness of adjusting washers *F. Bolus PB2 P105*
Material of Crank shaft *S. Steel* Identification Mark on Do. *200. MB* Material of Thrust shaft *S. Steel* Identification Mark on Do. *201- MB*
Material of Tunnel shafts *S. Steel* Identification Marks on Do. *242/247* Material of Screw shafts *S. Steel* Identification Marks on Do. *4349- MK*
Material of Steam Pipes *Steel* Test pressure *50 atmos.*

Is an installation fitted for burning oil fuel *No.*

Is the flash point of the oil to be used over 150°F. *✓*

Have the requirements of Section 49 of the Rules been complied with *✓*

Is this machinery duplicate of a previous case *Yes*

If so, state name of vessel *s/s "Monte Grappa"*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Machinery of this vessel has been built under special Survey, and in accordance with the Rules. The materials and workmanship are good, and on completion the engines and boilers were examined under working conditions, and found satisfactory.

The machinery of this vessel is eligible in my opinion to have the notation of +LMC II-20.

Wireless, and electric light fitted.

It is submitted that
this vessel is eligible for
THE RECORD. +LMC. II. 20 FD

Reed
3/1/21

APR 2

The amount of Entry Fee ... £ *294* : When applied for,
Special ... £ *454* : 22. 7. 18
Donkey Boiler Fee ... £ *52 1/2* : 12. 9. 17
Travelling Expenses (if any) £ : 10. 11. 20
When received,
12. 9. 18
17. 2. 19
29. 12. 20.

Committee's Minute TUE. 11 JAN. 1921

Assigned

Geo. F. Munro
Engineer Surveyor to Lloyd's Register of Shipping.

FRI. APR. 29 1921

MACHINERY CERT.
WRITTEN
14.1.21

+ LMC. II. 20

L.D.

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Lloyd's Register
Foundation