

# REPORT ON MACHINERY.

No. 2013

Received at London Office

ing Report 1-7-1921 When handed in at Local Office 1-7-1921 Port of Naples  
 Survey held at Naples Date, First Survey May 7 Last Survey 30.6.21  
 on the S. S. - Giulia Pierce (Number of Visits 10) Gross 2452 Tons  
Ingolotti Built at Naples By whom built Bacini e Scali Napoletani When built 1921  
 made at Naples By whom made Bacini e Scali Napoletani when made 1921  
 made at Legnano By whom made Messrs Franco Losi when made 1921  
 d Horse Power, 239 Owners Messrs Pierce Bros Port belonging to Naples  
 se Power as per Section 28 185 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes

ES, &c. — Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
59 1/2 390 950 1500 Length of Stroke 915 Revs. per minute 83 Dia. of Screw shaft 312 Material of Steel  
890 shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight  
 ter boss yes If the liner is in more than one length are the joints burned one length If the liner does not fit tightly at the part  
 earings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If two  
 ed, is the shaft lapped or protected between the liners ✓ Length of stern bush 1345  
 shaft as per rule 278 Dia. of Crank shaft journals as per rule 293 Dia. of Crank pin 288 Size of Crank webs 170x320 Dia. of thrust shaft under  
 as fitted 288 as fitted 289  
 Dia. of screw 4600 Pitch of Screw 4.000 No. of Blades 4 State whether moveable No Total surface 5,60 SM.  
 numps 2 Diameter of ditto 90 Stroke 515 Can one be overhauled while the other is at work yes  
 numps 2 Diameter of ditto 114 Stroke 515 Can one be overhauled while the other is at work yes  
 Engines 4 Sizes of Pumps 2 - 180x150 2 - 140x140 2 - 115x115 250 No. and size of Suctions connected to both Bilge and Donkey pumps  
 om 1E. 2-70 dia (31.1200) (00900) (01.100-700) In Holds, &c. No 1. hold two 65, No 2 hold 2-75,  
old 2-75, No 4 hold 1-75, tunnel well 1-75,  
 ections 1 sizes 170 Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes  
 e suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible ✓  
 tions with the sea direct on the skin of the ship yes Are they Valves or Cocks both  
 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  
 tted 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 Values  
 e carried through the bunkers None How are they protected ✓  
 Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes  
 Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes  
 shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Cyl tops

&c. — (Letter for record S) Manufacturers of Steel 4435  
 Surface of Boilers 412 Is Forced Draft fitted No No. and Description of Boilers 2 water tube (Losi type)  
 ssure 185 lbs Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate 64.5  
 be worked separately yes Area of fire grate in each boiler 6.46 No. and Description of Safety Valves to yes  
L. Double Area of each valve 28.27 Pressure to which they are adjusted not adjusted Are they fitted with easing gear yes  
 e between boilers or uptakes and bunkers woodwork 170 Mean dia. of boilers 1200 Length 3100 Material of shell plates S  
 27 Range of tensile strength 41-47 K.M.P. Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams DR.  
2.085 Diameter of rivet holes in long. seams 22 Pitch of rivets 83 Lap of plates or width of butt straps 212  
 strength of longitudinal joint 94.5 Working pressure of shell by rules 18.5 Size of manhole in shell 400x800  
 plate 73.5  
 ting ring Flanged No. and Description of Furnaces in each boiler Material Outside diameter  
 part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings  
 bottom Thickness of plates bottom  
 e of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
 ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules  
tubes Area at smallest 48 inside Area supported by each stay 54 Working pressure by rules 54 End plates in steam space:  
 Thickness 44 How are stays secured 54 Working pressure by rules 54 Material of stays T. tube  
 t part Area supported by each stay Working pressure by rules Material of Front plates at bottom Steel  
 Material of Lower back plate Steel Thickness 18 Greatest pitch of stays ✓ Working pressure of plate by rules  
above Pitch of tubes 80x100 Material of tube plates S Thickness: Front 24 Back 18 Mean pitch of stays ✓  
 ide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and  
 er at centre Length as per rule Distance apart Number and pitch of stays in each  
 e by rules Steam dome: description of joint to shell Double riveted % of strength of joint 56  
 Thickness of shell plates 15 Material S Description of longitudinal joint DR. L. J. Diam. of rivet holes 20  
66 Working pressure of shell by rules 25 kilos Crown plates Steel Thickness 15 How stayed disked  
 TER. Type Losi Date of Approval of Plan Plan at London Tested by Hydraulic Pressure to on return  
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler No  
 y Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted No



IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded? No.

Cochran Type  
S.C. 7 1/2

SPARE GEAR.

State the articles supplied:-

2 top end bolts, 2 bottom end bolts, 2 main bearing bolts, 1 set of coupling bolts, one set of feed and bilge pump valves, 1 set of piston spring one set of bottom end brasses, one set of top end brasses, one set of safety valve springs, one set of junk ring studs, some condenser tubes. a quantity of assorted bolts & nuts. Iron of various sizes

200 spring valves  
Crank die each  
and gear pump. 2 1/2

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - - }  
Total No. of visits

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " " Cannot be

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Propeller

Stern tube

Steam pipes tested

Engine and boiler seatings

17.6.21 Engines holding down bolts 17.6.

Completion of pumping arrangements

Boilers fixed

4.5.21

Engines tried under steam

17.6.21

Completion of fitting sea connections

4.5.21

Stern tube 4.5.21

Screw shaft and propeller 4.5.21

Main boiler safety valves adjusted

Not adjusted

Thickness of adjusting washers

✓

Material of Crank shaft

Identification Mark on Do.

Material of Thrust shaft

Identification Mark on Do.

Material of Tunnel shafts

Identification Marks on Do.

Material of Screw shafts

Identification Marks on Do.

Material of Steam Pipes

Steel 110 dia x 5 1/4 thick

Test pressure

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

Vittoria No.

General Remarks

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

Workmanship Good

London Letter E. 28.4.21.

Now done. The main boilers examined throughout and compared with drawings and found correct, the donkey boiler examined throughout (new) and found in good condition, Cochran Type Standard make, marks as above builders written for drawing, The SC: Shaft, Intermediate shafts thrust shaft examined and sizes verified, sternbusk and sea connections examined, sizes of Crank shaft & Cylinder Verified, pumps examined and sizes verified, Condenser examined and tested. the pumping arrangement examined throughout and made to conform with our Rules as none of the bilge valves were non-return, engine and boiler seatings examined and rivets tested. superheaters examined no safety valves fitted or easing gear. spare gear examined

The amount of Entry Fee ... £

Special Survey Fee ... £ 2000.00

Donkey Boiler Fee ... £

Travelling Expenses (if any) £ 80.00

When applied for,

1.7.21

When received,

25/7/21

W. Roberts

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

THE 24 JAN 1922

Assigned

See Minute

n Kap. 207



© 2020

Lloyd's Register Foundation



Naples

Continuation of Report No. 2013 dated 1st July.

on the

- Guilia Pierce -

Complete the classification survey for LMC following requires to be done.

- (1) Boilers and ~~Superheaters~~ to test to 328 lbs  $\square$ " Superheaters to test to 555 lbs  
See Sec Letter 28/6/21
- (2) HP, MP & LP, pistons and slide valves to examine.
- (3) Crank Shaft and bearings to examine.
- (4) If drawings of Superheaters are approved, safety valves and easing gear to fit.
- (5) main boiler safety valves to adjust to 185 lbs  $\square$ " (13 atmos)
- (6) Safety Valves when fitted to Superheaters to adjust to slightly higher pressure than main boilers.
- (7) Drawing of Donkey boiler to submit for approval, or Committee may accept Marks of the test.
- (8) Donkey boiler to test to 200 lbs  $\square$ .
- (9) Safety Valves of donkey boiler to adjust to 100 lbs  $\square$ .

The workmanship throughout as far as seen in my opinion good, and on completion the above items I am of opinion that notation of LMC with date might be signed.

W.H. Roberts

Please return drawings to deal with C.B.B.

Plan of Superheaters sent to London 16/6/21.  
not yet returned,