

REPORT ON MACHINERY.

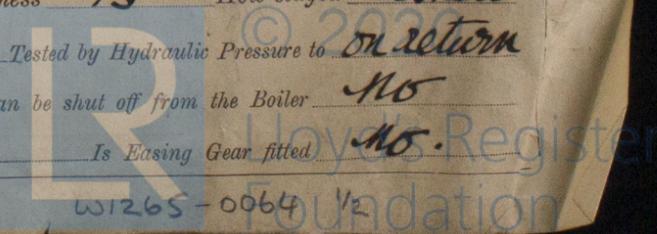
No. 2013

Received at London Office

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) Tons { Gross 2452 for fees
 Net 1563
 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
 Horse Power 239 Owners Messrs Pierce Bros Port belonging to Naples
 Power as per Section 28 185, 261 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
 Cylinders 390 950 1500 Length of Stroke 915 Revs. per minute 83 Dia. of Screw shaft as per rule 312 Material of Steel
 shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight
 after 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
 bearings 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.
 Pumps 2 Diameter of ditto 90 Stroke 515 Can one be overhauled while the other is at work yes
 Pumps 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 - 115-115 250 No. and size of Suctions connected to both Bilge and Donkey pumps
 from VE. 2-70 dia (8.1" 1200) (0.90" 700) In Holds, &c. No. 1. hold two 65, No 2. hold 2-45,
hold 2-45, No 4. hold 1-45, tunnel well 1-45,
 sections 1 sizes 170 Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes
 suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible ✓
 connections 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
 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 Valves
 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
 Surface of Boilers 412 Is Forced Draft fitted No No. and Description of Boilers 2 water tube (Losi type)
 Pressure 185 lbs Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓
 be worked separately yes Area of fire grate in each boiler 6.42 No. and Description of Safety Valves to
L. Double Area of each valve 28.27 Pressure to which they are adjusted not adjusted Are they fitted with easing gear yes
 between boilers or uptakes and bunkers woodwork 170 Mean dia. of boilers 1200 Length 3100 Material of shell plates S
 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 rivets 94.5 Working pressure of shell by rules 18.5 Size of manhole in shell 400x300
 plate 73.5
 fitting 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
 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 part 48 inside Area supported by each stay 54 Working pressure by rules End plates in steam space:
 Thickness do Pitch of stays 44 How are stays secured 54 Working pressure by rules Material of stays
 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 ✓
 side water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 at centre Length as per rule Distance apart Number and pitch of stays in each
 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 dished
 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
 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 springs, 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
Cranked die each
and gear fitted. 2. 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*

Is the approved plan of donkey boiler forwarded herewith *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 *17.6.21*
Completion of pumping arrangements Boilers fixed *4.5.21* Engines tried under steam *17.6.21*
Completion of fitting sea connections *Exam 20.5.21* Stern tube *Exam 20.5.21* Screw shaft and propeller *Exam 20.5.21*
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 *Victoria 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 S.C. Shaft, Intermediate & 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 casing gear, spare gear examined &

The amount of Entry Fee ... £ : : When applied for, Special Survey Fee. £ 2000.00 1.7.21 W.R.H. When received, Donkey Boiler Fee ... £ : : Travelling Expenses (if any) £ 80.00 25/7/21 W.R.H. 8/8.

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W.R.H. Roberts
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *THE 24 JAN 1922*

Assigned *see Minute on Ref. No. 2072*



Naples

Continuation of Report No. 2013 dated 1st July.

on the

- Giulia Pierce -

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

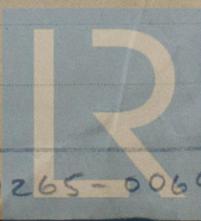
- (1) Boilers and ~~Superheaters~~ to test to 328 lbs \square " Superheaters to test to 555 lbs
See Sec letter 28/6/21
- (2) HP, MP & LP, pistons and slide valves to examine.
- (3) Crank shaft and bearings to examine.
- (4) If drawings of Superheaters are approved, safety valves and easing gear to fit.
- (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.



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