

## REPORT ON BOILERS.

No. 2218

Received at London Office

Date of writing Report 3/1/1923 When handed in at Local Office 3/1/1923 Port of Naples THE 30 JAN. 1923  
 No. in Survey held at Naples. Date, First Survey June 18/1921 Last Survey Dec 19/1923  
 Reg. Book. 54001 on the S. S. Bagnoli I. (Number of Visits 9) Tons { Gross 6284 Net 3817  
 Master Bagnoli Built at Bagnoli By whom built Nova-Lantione Navale di Bagnoli When built  
 Engines made at Legnano By whom made Soc. Anon. Franco Zosi When made 1921  
 Boilers made at Legnano By whom made Soc. Anon. Franco Zosi When made 1921  
 Registered Horse Power 524 536 Owners Messa Ugo Alti Forni & Accuriani d'Italia Port belonging to Naples

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel

(Letter for record S) Total Heating Surface of Boilers 90.4 SM. Is forced draft fitted NO No. and Description of Boilers One S.E. two plain furnaces Working Pressure 7 ATM Tested by hydraulic pressure to 14 ATM Date of test 10-9-21  
 No. of Certificate ✓ Can each boiler be worked separately ✓ Area of fire grate in each boiler 3.20 SM No. and Description of safety valves to each boiler Two Spring Loaded Area of each valve 3849 M/M<sup>2</sup> Pressure to which they are adjusted 7 ATM 19/10/21  
 Are they fitted with easing gear YES In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NO  
 Smallest distance between boilers or plates and tankers or woodwork 12" Mean dia. of boilers 3120 M/M Length 2850 M/M  
 Material of shell plates S Thickness 18 M/M Range of tensile strength 41-47 K M/M<sup>2</sup> Are the shell plates welded or flanged NO  
 Descrip. of riveting: cir. seams D.R.L.T. ends long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 25 M/M Pitch of rivets 95 M/M  
 Lap of plates or width of butt straps 252 M/M Per centages of strength of longitudinal joint rivets 94.5% Working pressure of shell by rules 8.2 Kilos Size of manhole in shell 440 x 340 M/M Size of compensating ring 656 x 556 x 20 M/M No. and Description of Furnaces in each boiler two plain Material S Outside diameter 928 Length of plain part 1000 Thickness of plates 14 M/M  
 Description of longitudinal joint L.T.S.R No. of strengthening rings ONE Working pressure of furnace by the rules 10.5 Combustion chamber plates: Material S Thickness: Sides 13 Back 13 Top 13 Bottom 16 Pitch of stays to ditto: Sides 180 Back 170  
 Top 180 If stays are fitted with nuts or riveted heads Some nutted riveted Working pressure by rules 8.7 Material of stays S Area supported by each stay 30600 Working pressure by rules 10.2 End plates in steam space: Material S Thickness 19  
 Pitch of stays 375 How are stays secured ON & RW outside Working pressure by rules 8.2 Material of stays S Area at smallest part 51.99  
 Area supported by each stay 138750 Working pressure by rules 8.4 Material of Front plates at bottom S Thickness 19 Material of Lower back plate S Thickness 19 Greatest pitch of stays 385 x 370 Working pressure of plate by rules 8 Diameter of tubes 76  
 Pitch of tubes 104 x 102 Material of tube plates S Thickness: Front 19 Back 18 Mean pitch of stays 103 Pitch across wide water spaces 340 Working pressures by rules 7.8 Girders to Chamber tops: Material S Depth and thickness of girder at centre 180 x 36 Length as per rule 580 Distance apart 188 Number and pitch of Stays in each 2 x 180  
 Working pressure by rules 20.8 Steam dome: description of joint to shell ✓ % 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 ✓

SUPERHEATER. Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_  
 Date of Test \_\_\_\_\_ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler \_\_\_\_\_  
 Diameter of Safety Valve \_\_\_\_\_ Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_

VERTICAL DONKEY BOILER— No. ✓ Description ✓ Manufacturers of steel ✓  
 Made at ✓ By whom made ✓ When made \_\_\_\_\_ Where fixed ✓ Working pressure \_\_\_\_\_  
 tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ 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 \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ 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 \_\_\_\_\_ Working pressure of furnace by rules \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ Stayed by \_\_\_\_\_ Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_  
 Thickness of water tubes \_\_\_\_\_

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - (1921) June 18, 19. 26. Aug 26. 1922. Feb 27. Sept 14. Dec 13. 19. }  
 { During erection on board vessel - - }  
 Total No. of visits 9

Is the approved plan of main boiler forwarded herewith ✓" " " donkey " " ✓

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at London E. 26/1/21

WILLIAM DOUGLAS



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

This boiler has been fitted to place on board and efficiently secured in position. Examined throughout and found in good condition and scantlings verified, tested to 14 Kilos and stamped

NO. 1  
LLOYD'S TEST  
14 KILOS  
W. P. 7 KILOS  
W. H. R. 10-9-21

Safety valves adjusted under steam and tried for accumulation.

- *W.H.R.* -

Certificate (if required) to be sent to  
(The Surveys are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	:	:	When applied for.
Special .. .. £	:	:	.....19.....
Donkey Boiler Fee .. .. £	:	:	When received,
Travelling Expenses (if any) £	:	:	.....19.....

Committee's Minute

FRI 23 FEB. 1923

Assigned

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



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Lloyd's Register  
Foundation