

# YACHT. REPORT ON BOILERS.

18094  
No. 14039

Received at London Office 26 JUL 1930

1. Date of writing Report 25.7 1929 When handed in at Local Office 25.7 1930 Port of Southampton  
2. Date, First Survey 7.10.29 Last Survey 2.5 1930  
3. Name of Yacht "XARIFA"  
4. Name of Engineer C. W. S.  
5. Name of Survey held at C. W. S.  
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## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

1. Name of Manufacturer W. Beardmore & Co. Ltd.  
2. Total Heating Surface of Boilers 2297 sq. ft.  
3. No. and Description of Boilers One S.E. Return tube cylindrical  
4. Tested by hydraulic pressure to 320 lbs. Date of test 21.3.30 No. of Certificate 397  
5. Area of Firegrate in each Boiler 50 sq. ft.  
6. Area of each set of valves per boiler 9.818 sq. ft.  
7. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.  
8. Smallest distance between boilers or uptakes and bunkers or woodwork 11"  
9. Smallest distance between shell of boiler and tank top plating 11"  
10. Largest internal dia. of boilers 14'-6" Length 10'-6"  
11. Thickness 1 7/32" Are the shell plates welded or flanged No.  
12. Long. seams T.R.D.B. Diameter of rivet holes in 1 5/16"  
13. Percentage of strength of circ. end seams 65%  
14. Percentage of strength of longitudinal joint 85.9%  
15. Thickness of butt straps 1 5/16"  
16. Material Steel  
17. Length of plain part 17'-8 1/2"  
18. Dimensions of stiffening rings on furnace or c.c. bottom 17'-8 1/2"  
19. End plates in steam space: Material Steel Tensile strength 26/30  
20. How are stays secured Double nuts & double washers  
21. Tube plates: Material Steel Tensile strength 26/30  
22. Mean pitch of stay tubes in nests 9.6875"  
23. Girders to combustion chamber tops: Material Steel Tensile strength 28/32  
24. at centre 10 1/4" x 15" Length as per Rule 2'-8 1/4"  
25. in each 2 x 9/8" Working pressure by Rules Appd.  
26. Tensile strength 26/30 Thickness: Sides 21/32" Back 21/32" Top 23/32" Bottom 21/32"  
27. Pitch of stays to ditto: Sides 9/8" x 8 1/4" Back 9 1/8" x 8 3/8" Top 9/8" x 10 3/4"  
28. Working pressure by Rules Appd.  
29. Thickness 15/16" Lower back plate: Material Steel Tensile strength 26/30  
30. Pitch of stays at wide water space 13 1/4" x 8 3/8" Are stays fitted with nuts or riveted over nuts fitted.  
31. Working Pressure Appd.  
32. Main stays: Material Steel Tensile strength 28/32  
33. Diameter 3/4" No. of threads per inch 6 Area supported by each stay 430 sq. in.  
34. Working pressure by Rules Appd.  
35. Diameter 1 5/8" No. of threads per inch 9 Area supported by each stay 26/30  
36. No. of threads per inch 9 Area supported by each stay 26/30



Working pressure by Rules *appd.* Are the stays drilled at the outer ends *no* Margin stays: Diameter { At turned off part, or Over threads *1 3/4"*

No. of threads per inch *9* Area supported by each stay *8 3/8" x 11 1/2"* Working pressure by Rules *appd.*

Tubes: Material *S.D. Steel* External diameter { Plain *2 3/4"* Stay *2 3/4"* Thickness { *9.45 G.* *3/8"* *13/32"* No. of threads per inch *9*

Pitch of tubes *3 7/8" x 3 7/8"* Working pressure by Rules *appd.* Manhole compensation: Size of opening *1 5/8"*

shell plate *1 7/4" x 2 1/4"* Section of compensating ring *8 7/8" x 1 1/4"* No. of rivets and diameter of rivet holes *36* *1 5/8"*

Outer row rivet pitch at ends *9"* Depth of flange if manhole flanged *3 5/8"* Steam Dome: Material *none*

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater *none* Manufacturers of { Tubes Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off from the boiler

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

The foregoing is a correct description,  
For J. Samuel White & Company Ltd.,  
Managing Director.

Dates of Survey { During progress of work in shops - *7/10/29, 23/10/29, 8/11/29, 9/11/29, 11/12/29* Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) *yes*

while building { During erection on board vessel - *2/5/30* Total No. of visits *11*

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

*This boiler was constructed in accordance with the approved plans and the requirements of the Rules, tested and found satisfactory. The workmanship & materials are good.*

Survey Fee ... .. £ : : } When applied for, 192

Travelling Expenses (if any) £ ✓ : : } When received, 192

*L. R. Horne*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI 1 AUG 1930*

Assigned *See F.E. Rpt.*