

Rpt. 5a.

REPORT ON BOILERS.

No. 7999

Received at London Office

FRI. JUL. 4-1913

Date of writing Report 2.7.13 When handed in at Local Office 3.7.13 Port of Middlesbrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 25th February Last Survey 26th June 1913
 Reg. Book. Steel S.S. Ecaterini Matsouki (Number of Visits 16) Gross 3115
 on the Steel S.S. Ecaterini Matsouki (S.S. No. 231) Tons Net 1900
 Master James Built at Sunderland By whom built J. Priestman & Co When built 1913
 Engines made at Sunderland By whom made J. & Marine & Co Ltd When made 1913
 Boilers made at Stockton By whom made Messrs Riley Bros Ltd (No 4507) When made 1913
 Registered Horse Power Owners Anglo Roumanian Lloyd Port belonging to Suvauxsea

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

(Letter for record (S)) Total Heating Surface of Boilers 1015 sq ft Is forced draft fitted no No. and Description of

Boilers One single ended Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 26.6.13

No. of Certificate 5102 Can each boiler be worked separately ✓ Area of fire grate in each boiler 31.6 sq ft No. and Description of

safety valves to each boiler Two spring loaded Area of each valve 4.910 Pressure to which they are adjusted 12.3 lbs.

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 uptakes and bunkers or woodwork 10" (on main deck) Inside dia. of boilers 10'-6" Length 10'-6"

Material of shell plates steel Thickness $\frac{21}{32}$ Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2 Riv. lap long. seams 2 B-2 Riv Diameter of rivet holes in long. seams $\frac{15}{16}$ Pitch of rivets $5\frac{1}{2}$

Lap of plates or width of butt straps $9\frac{3}{8} \times \frac{21}{32}$ Per centages of strength of longitudinal joint rivets 85.6 Working pressure of shell by

rules 123 Size of manhole in shell $19" \times 15"$ Size of compensating ring $7 \times \frac{31}{32}$ in. dia. No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 36 Length of plain part top 82" Thickness of plates crown $\frac{21}{32}$

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 133 Combustion chamber

plates: Material steel Thickness: Sides $\frac{13}{32}$ Back $\frac{9}{16}$ Top $\frac{13}{32}$ Bottom $\frac{13}{16}$ Pitch of stays to ditto: Sides $11 \times 7\frac{3}{4}$ Back 10×9

Top $9 \times 7\frac{3}{4}$ If stays are fitted with nuts or riveted heads nuts Working pressure by rules 121 Material of stays steel Diameter at

smallest part 1.73 Area supported by each stay 90 Working pressure by rules 154 End plates in steam space: Material steel Thickness $\frac{31}{32}$

Pitch of stays 17×20 How are stays secured nuts & washers Working pressure by rules 121 Material of stays steel Diameter at smallest part 4.57

Area supported by each stay 391.5 Working pressure by rules 120 Material of Front plates at bottom steel Thickness $\frac{31}{32}$ Material of

Lower back plate steel Thickness $\frac{31}{32}$ Greatest pitch of stays 14×9 Working pressure of plate by rules 234 Diameter of tubes $3\frac{1}{4}$

Pitch of tubes $4\frac{1}{2} \times 4\frac{3}{8}$ Material of tube plates steel Thickness: Front $\frac{31}{32}$ Back $\frac{4}{16}$ Mean pitch of stays $10\frac{5}{8}$ Pitch across wide

water spaces $14"$ Working pressures by rules 126 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre $6 \times 1\frac{1}{2}$ Length as per rule 27" Distance apart 9" Number and pitch of Stays in each 2 @ $7\frac{3}{4}$

Working pressure by rules 122 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

SURVEY REQUEST NO. 655 ATTACHED. The foregoing is a correct description, FOR RILEY BROS. BOILERMAKERS LIMITED.

MANUFACTURER. SECRETARY.

Dates of Survey During progress of 1913. Feby. 25. Mar. 23. Apr. 27. May. 8. 24. 30. Jun. 3. 10. 17. 24. 31. Jul. 7. 14. 21. 28. Aug. 4. 11. 18. 25. 31. Sep. 7. 14. 21. 28. Oct. 5. 12. 19. 26. Nov. 2. 9. 16. 23. Dec. 1. 8. 15. 22. 29. Is the approved plan of boiler forwarded herewith yes

while building During erection on board vessel 11.14.18. 20. 24. 26. Jul. 23. Aug. 7. 20 Total No. of visits 16 19

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under

Special Survey, is of good material and workmanship, and on completion was tested

by hydraulic pressure with satisfactory results

It has been securely fixed on board, mountings fitted & its safety valves have

been adjusted under steam.

Survey Fee ... £ 378-0 When applied for, MONTHLY A/C. 191

Travelling Expenses (if any) £ 4 When received, 191

Committee's Minute

Assigned

TUE. AUG. 26. 1913

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

W. Morrison & William D. Lister

Lloyd's Register Foundation

W48-0045