

REPORT ON BOILERS.

No. 8053
THU. AUG. 7-1913

Received at London Office

5.8.13 1913 When handed in at Local Office 6.8.1913 Port of Middlesbrough
Description of Stockton-on-Tees Date, First Survey 11th June Last Survey 31st July 1913.
No. in Survey held at Stockton-on-Tees
Reg. Book. S.S. "Caldy" (Number of Visits 12) Gross Tons S.S. No 634 Net Tons
on the S.S. "Caldy" When built 1913
Built at Thornaby By whom built Richardson Duck & Co
Rivets Stockton By whom made Messrs Blair & Co When made
Plates Stockton By whom made Messrs Riley Bros Ltd (No 4515) When made 1913
Boilers made at Stockton By whom made Messrs Riley Bros Ltd (No 4515) When made 1913
Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons
Letter for record (S) Total Heating Surface of Boilers 1140 sq ft Is forced draft fitted
Boilers One single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 31.7.13
No. of Certificate 5131 Can each boiler be worked separately Yes Area of fire grate in each boiler 35 sq ft No. and Description of
Safety valves to each boiler 2 direct spring Area of each valve 7.07 sq in Pressure to which they are adjusted 105 lb
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 on upper th Inside dia. of boilers 11'-0" Length 10'-0"
Material of shell plates steel Thickness 19/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no
Descrip. of riveting: cir. seams 2 R. lap long. seams 2 B - 2 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5 1/2"
Cap of plates or width of butt straps 9 1/2 x 19/32 Per centages of strength of longitudinal joint rivets 94.8 Working pressure of shell by
rules 103 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 1" No. and Description of Furnaces in each
boiler 2 plain Material steel Outside diameter 40" Length of plain part top 76" Thickness of plates crown 3 1/8"
Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 123 Combustion chamber
plates: Material steel Thickness: Sides 17/32 Back 5/8" Top 17/32 Bottom 13/16" Pitch of stays to ditto: Sides 9 1/4 x 8 Back 9 x 10
Top 10 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 105 Material of stays steel Diameter at
smallest part 1.23 Area supported by each stay 80 Working pressure by rules 123 End plates in steam space: Material steel Thickness 55/64
Pitch of stays 20" x 19/32 How are stays secured nuts & 7 x 1/2 washers Working pressure by rules 113 Material of stays steel Diameter at smallest part 4.57
Area supported by each stay 348 Working pressure by rules 137 Material of front plates at bottom steel Thickness 55/64 Material of
lower back plate steel Thickness 55/64 Greatest pitch of stays 13" x 10" Working pressure of plate by rules 189 Diameter of tubes 3 1/4"
Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 55/64 Back 5/8" Mean pitch of stays 10 3/8" Pitch across wide
water spaces 13 1/2 Working pressures by rules 130 Girders to Chamber tops: Material steel Depth and thickness of
girder at centre 6 1/2 x 1 1/2 Length as per rule 28" Distance apart 10" Number and pitch of Stays in each 2 @ 8"
Working pressure by rules 120 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
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. 688 ATTACHED.

The foregoing is a correct description,
FOR RILEY BROS. (BOILERMAKERS) LIMITED.

A. R. R. R. Manufacturer.

SECRETARY

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 12.

Dates of Survey During progress of work in shops - - - Jun. 11. 13. 20. 24. 26 July. 1. 11. 16. 18. 25. 30. 31
white During erection on board vessel - - -

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. The boiler is to be fitted on board at this port. This boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted

Survey Fee £ 3-16-0 When applied for, 191
Traveling Expenses (if any) £ When received, 191

Committee's Minute FRI. OCT. 3-1913
Assigned See Minute on T.B. report.
W. Morrison 23/9/13
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

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Foundation