

REPORT ON BOILERS.

Received at London Office JUN. 28. DEC. 1915

Date of writing Report 1915 When handed in at Local Office 24/12/15 Port of Middlesbrough May 24 1916
 No. in Survey held at Stockton-on-Tees Date, First Survey May 19 Last Survey Dec. 23 1915
 Reg. Book. on the S S Polly Bridge (Number of Visits 17) Gross 403 Tons Net 163
 Master Built at South Shields By whom built J. P. Remouldson & Sons When built 1916
 Engines made at South Shields By whom made J. P. Remouldson & Sons When made 1916
 Boilers made at Stockton By whom made James Riley Bros Ltd (No 4840) When made 1915
 Registered Horse Power Owners A. Keethan & Sons Ltd Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Hume & Sons
 (Letter for record (5)) Total Heating Surface of Boilers 1400 sq ft Is forced draft fitted
 Boilers One single ended Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 23.12.15
 No. of Certificate 5596 Can each boiler be worked separately Area of fire grate in each boiler 47 sq ft No. and Description of safety valves to each boiler
 Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 Smallest distance between boilers or uptakes and bunkers or woodwork Inside Mean dia. of boilers 12'-9" Length 10'-3"
 Material of shell plates steel Thickness 3/4" Range of tensile strength 29 1/2 - 33 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 7"
 Lap of plates or width of butt straps 13 x 1/2" Per centages of strength of longitudinal joint rivets 98.0 Working pressure of shell by rules 132 plate 86.57
 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 3/8" An. riv No. and Description of Furnaces in each boiler 3 plain Material steel Outside diameter 39" Length of plain part top 74 1/2" Thickness of plates crown 1/8" bottom 3/16"
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 145 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 3/16" Top 5/8" Bottom 1 1/2" Pitch of stays to ditto: Sides 10" x 9" Back 9" x 8 3/4" Top 11" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 138 Material of stays steel Diameter at smallest part 1.45 Area supported by each stay 78.75 Working pressure by rules 147 End plates in steam space: Material steel Thickness 29/32" Pitch of stays 18" x 16" How are stays secured nuts & washers Working pressure by rules 134 Material of stays steel Diameter at smallest part 3.67
 Area supported by each stay 297 Working pressure by rules 130 Material of Front plates at bottom steel Thickness 29/32" Material of Lower back plate steel Thickness 29/32" Greatest pitch of stays 14 1/2" x 8 3/4" Working pressure of plate by rules 158 Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates steel Thickness: Front 29/32" Back 1/2" Mean pitch of stays 10 1/2" Pitch across wide water spaces 14 1/2" Working pressures by rules 140 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8" x 1 1/2" Length as per rule 31" Distance apart 11" Number and pitch of Stays in each 209"
 Working pressure by rules 136 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. 1139. ATTACHED.

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

Dates of Survey During progress of work in shops 1915 May 19. 28. Jun 2. Jul 13. 23. Sep. 7. 8. Nov. 5. 12. 16. Is the approved plan of boiler forwarded herewith yes
 while building During erection on board vessel 23. 26. Dec. 2. 6. 7. 18. 21. Total No. of visits 17
 See Newcastle Report 68725

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

Survey Fee ... £ 4-13-0 When applied for Monthly 1915
 Travelling Expenses (if any) £ ... When received, 1915

Wm Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 12 MAY. 1916
 Assigned See minute & vice. 68725

