

## REPORT ON BOILERS.

No. 28698

Safety of writing Report

19

When handed in at Local Office

25 MAR 1910

Received at London Office

THUR. 31 MAR 1910

No. in Survey held at Glasgow. Date, First Survey 24<sup>th</sup> Dec. 1909 Last Survey 16<sup>th</sup> March 1910  
 Reg. Book. on the Steel Steam Steamer "The Forester" (Number of Visits 10) Gross 190.78  
 Tons Net 78.89  
 Master Built at Chepstow By whom built Edward Finch & Co. (No. 267) When built 1910  
 Engines made at Gloucester By whom made W. Lissom & Co. (No. 923) when made 1910  
 Boilers made at Glasgow By whom made Lindsay Burnet & Co. (No. 1258) when made 1910  
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stewarts & Lloyd & Lanarkshire

Letter for record (2) Total Heating Surface of Boilers 904 sq ft Is forced draft fitted ☒ No. and Description of  
 Boilers 1 single ended marine type. Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 16.3.10.  
 No. of Certificate 10321 Can each boiler be worked separately ☒ Area of fire grate in each boiler 233 sq ft No. and Description of  
 Safety valves to each boiler Two, Spring Area of each valve 3-1/4 Pressure to which they are adjusted 125 lbs  
 Are they fitted with easing gear Yes 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 20" Inside diam. of boilers 10'-1 1/2' Length 9'-0"  
 Material of shell plates Steel Thickness 2 1/32" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams D.R. lap long. seams D.R. R.S. Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 2 1/32"  
 Width of butt straps 9 1/4" Per centages of strength of longitudinal joint rivets 87.8% Working pressure of shell by  
 rules 125 lbs Size of manhole in shell 16" x 12" Size of compensating ring 4 1/2" x 1" flanged No. and Description of Furnaces in each  
 boiler 2 plain Material Steel Outside diameter 3'-2" Length of plain part top 6'-2" Thickness of plates crown 7/8"  
 Description of longitudinal joint welded No. of strengthening rings one Working pressure of furnace by the rules 149 lbs Combustion chamber  
 plates: Material Steel Thickness: Sides 9/16" Back 5/8" Top 5/8" Bottom 9/16" Pitch of stays to ditto: Sides 9' x 8" Back 9 1/2' x 8 1/4"  
 Top 7 5/8' x 8 1/4" If stays are fitted with nuts or riveted heads nutted Working pressure by rules 171 lbs Material of stays Steel Diameter at  
 smallest part 1-19" Area supported by each stay 78.5 sq in Working pressure by rules 121 lbs End plates in steam space: Material Steel Thickness 1"  
 Pitch of stays 1'-5" How are stays secured on nuts Working pressure by rules 120 lbs Material of stays Steel Diameter at smallest part 3.85"  
 Area supported by each stay 335 sq in Working pressure by rules 120 lbs Material of Front plates at bottom Steel Thickness 23/32" Material of  
 lower back plate Steel Thickness 1/16" Greatest pitch of stays 14" Working pressure of plate by rules 176 lbs Diameter of tubes 3 1/4"  
 Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates Steel Thickness: Front 23/32" Back 1/16" Mean pitch of stays 11 1/8" Pitch across wide  
 water spaces 14" Working pressures by rules 183 lbs Girders to Chamber tops: Material none Depth and thickness of  
 order at centre ☒ Length as per rule ☒ Distance apart 7 5/8" centres of Palm stays Number and pitch of Stays in each ☒  
 Working pressure by rules ☒ Superheater or Steam chest: how connected to boiler ☒ 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 ☒  
 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 form

No. 318 attached

The foregoing is a correct description,

Lindsay Burnet & Co Manufacturer.

Dates During progress of work in shops - - - 1909. Dec 24. 1910. Jan 12. 24. Feb 1. Is the approved plan of boiler forwarded herewith yes.  
 while During erection on board vessel - - - 9. 15. 28. Mar 3. 10. 16. Total No. of visits 10  
 building 1910 Sept 1 - 9. 21

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship + materials are good. the boiler has been built under Special Survey, + is being forwarded to Chepstow.

Survey Fee ... £ 3 : 0 : 0 When applied for, 29/31. 19. 10.  
 Travelling Expenses (if any) £ : : When received, 2/4/ 19. 10.

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

Committee's Minute GLASGOW 30 MAR. 1910

Assigned

Transmit to London.

THUR. 30 OCT 1910

FRI. 24 MAR 1911

Lloyd's Register Foundation

W578 0019