

REPORT ON BOILERS

No. 28918.

Date of writing Report 10 When handed in at Local Office 18/5/10 Port of Glasgow. Received at London Office 15 JUN 1910
 No. in Survey held at Glasgow. Date, First Survey 28th Jan 1910 Last Survey 12th May 1910
 Reg. Book. on the Donkey Boiler for Rankine & Blackmore No. 286. (Number of Visits 15) Gross Tons Net
 Master Built at By whom built When built
 Engines made at By whom made when made
 Boiler made at Govan, Glasgow By whom made L. Burnett & Co (No. 1262) when made 1910.
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. Manufacturers of Steel Steel Co. of Scotland & Lanarkshire.

(Letter for record) Total Heating Surface of Boilers 1470 sq ft Is forced draft fitted ☒ No. and Description of Boilers 1 single ended marine type Working Pressure 110 lb Tested by hydraulic pressure to 220 lb Date of test 12.5.10.
 No. of Certificate 10399. Can each boiler be worked separately ☒ Area of fire grate in each boiler 39.8 sq ft No. and Description of safety valves to each boiler ☒ Area of each valve ☒ Pressure to which they are adjusted ☒
 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 dia. of boilers 12'-6" Length 11'-6"
 Material of shell plates Steel Thickness $\frac{1}{16}$ " 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 T.R. D.B. S. Diameter of rivet holes in long. seams $\frac{13}{16}$ " Pitch of rivets 6"
 Top of plates width of butt straps $11\frac{13}{16}$ " Per centages of strength of longitudinal joint rivets 93.5% plate 86.4% Working pressure of shell by rules 114 lb Size of manhole in shell 16" x 12" Size of compensating ring 6 $\frac{1}{2}$ " x 3 $\frac{1}{4}$ " No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 3'-8 $\frac{1}{2}$ " Length of plain part top 37'-2 $\frac{1}{2}$ " Thickness of plates crown 2 $\frac{1}{32}$ " bottom 2 $\frac{1}{32}$ "
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 143 lb Combustion chamber plates: Material Steel Thickness: Sides 3 $\frac{3}{16}$ " Back 9 $\frac{1}{16}$ " Top 19 $\frac{1}{32}$ " Bottom 7 $\frac{1}{8}$ " Pitch of stays to ditto: Sides 8' x 9' Back 10' x 9 $\frac{3}{4}$ "
 Top 12 $\frac{1}{2}$ " x 8' If stays are fitted with nuts or riveted heads nuts Working pressure by rules 112 lb Material of stays Steel Diameter at smallest part 1.474" Area supported by each stay 97.5" Working pressure by rules 121 lb End plates in steam space: Material Steel Thickness 13 $\frac{1}{16}$ "
 Pitch of stays 16" x 16" How are stays secured by nut and wash Working pressure by rules 115 Material of stays Steel Area Diameter at smallest part 3.36"
 Area supported by each stay 206" Working pressure by rules 136 lb Material of Front plates at bottom Steel Thickness 13 $\frac{1}{16}$ " Material of Lower back plate Steel Thickness $\frac{1}{16}$ " Greatest pitch of stays 13 $\frac{3}{4}$ " Working pressure of plate by rules 115 lb Diameter of tubes 3 $\frac{1}{4}$ "
 Pitch of tubes 4 $\frac{3}{8}$ " x 4 $\frac{9}{16}$ " Material of tube plates Steel Thickness: Front 13 $\frac{1}{16}$ " Back 3 $\frac{1}{4}$ " Mean pitch of stays 8 $\frac{3}{4}$ " x 9 $\frac{1}{8}$ " Pitch across wide water spaces 14 $\frac{1}{2}$ " Working pressures by rules 112 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 $\frac{3}{4}$ " x 1 $\frac{1}{2}$ " Length as per rule 34 $\frac{1}{16}$ " Distance apart 12 $\frac{1}{2}$ " Number and pitch of Stays in each 3 @ 8"
 Working pressure by rules 110 lb 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 form

No. 396 attached

The foregoing is a correct description.

Lindsay Burnett & Co. Manufacturer.

Dates During progress of work in shops 1910. Jan 28. Feb 1. 9. 15. 28. Mar 10. 16. Is the approved plan of boiler forwarded herewith yes.
 while building During erection on board vessel 31. April 7. 14. 20. 27. 29 May 4. 12 Total No. of visits 15

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

Survey Fee £2-2-0 2: 2: When applied for 19/5/1910.
 Travelling Expenses (if any) £: : When received 23/5/1910.

GLASGOW 24 MAY. 1910

GLASGOW 14 JUN. 1910

Committee's Minute

Assigned Transmit to London

See minute on

GARRATT No. 15800. 3/6/10

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