

## REPORT ON BOILERS.

No. 19185.

7 MAY 1930

Received at London Office

Date of writing Report 19<sup>th</sup> April 1930. When handed in at Local Office 2<sup>nd</sup> May 1930. Port of GreenockNo. in Reg. Book. Survey held at Greenock Date, First Survey 19<sup>th</sup> August 1929. Last Survey 30<sup>th</sup> April 1930.

on the

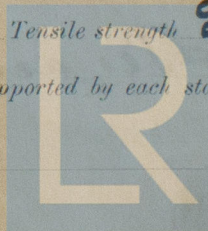
S/S "Dalfruin"

(Number of Visits) Gross 4554.54.  
Tons Net 2821.02.

Master Built at Greenock By whom built Scott STEEL CO<sup>Y</sup> Yard No. 546 When built 1930  
 Engines made at Greenock By whom made Scott STEEL CO<sup>Y</sup> Engine No. 618 When made 1930  
 Boilers made at ditto By whom made ditto Boiler No. 618 When made 1930  
 Nominal Horse Power Owners United Steam Nav CO<sup>Y</sup> Port belonging to Newcastle

## MULTITUBULAR BOILERS—MAIN,

Manufacturers of Steel Steel CO<sup>Y</sup> of Scotland (Rainsford, Greenock) (Letter for Record R)  
 Total Heating Surface of Boilers 6300 Is forced draught fitted Yes Coal — Coal  
 No. and Description of Boilers 3 Single Ended Working Pressure 250  
 Tested by hydraulic pressure to 425 Date of test 18.12.29 of Certificate 5.12.30 Can each boiler be worked separately Yes  
 Area of Firegrate in each Boiler 42.67 No. and Description of safety valves to each boiler Cochran Improved High Lift  
 Area of each set of valves per boiler per Rule 4.945 as fitted 6.285 Pressure to which they are adjusted 255 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 1'-3" Is oil fuel carried in the double bottom under boilers No  
 Smallest distance between shell of boiler and tank top plating 2'-1" Is the bottom of the boiler insulated Yes  
 Largest internal dia. of boilers 13'-10 1/2" Length 11'-3" Shell plates: Material S Tensile strength 29-30  
 Thickness 1 17/32" Are the shell plates welded or flanged — Description of riveting: circ. seams end 4.55 inter 10.437  
 long. seams TRIOBS Diameter of rivet holes in circ. seams 1 9/16" Pitch of rivets 10.437  
 Percentage of strength of circ. end seams plate 65.6 rivets 43 Percentage of strength of circ. intermediate seam plate 85.32 rivets 87.6  
 Percentage of strength of longitudinal joint plate 85.7 rivets 87.6 combined Working pressure of shell by Rules 254  
 Thickness of butt straps outer 1 3/16" inner 1 5/16" No. and Description of Furnaces in each Boiler 3 Draught  
 Material S Tensile strength 26-30 Smallest outside diameter 3'-2 2/49  
 Length of plain part top 2 1/32" bottom 2 1/32" Thickness of plates crown 2 1/32" bottom 2 1/32" Description of longitudinal joint weld  
 Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 252  
 End plates in steam space: Material S Tensile strength 26.30 Thickness 1 9/32" Pitch of stays 18 1/4" 14"  
 How are stays secured D N Working pressure by Rules 25 1/8  
 Tube plates: Material front S back S Tensile strength 26.30 Thickness 27/32" 25 5/8" 27 5/8"  
 Mean pitch of stay tubes in nests 10.312 Pitch across wide water spaces 14" Working pressure front 25 5/8" back 27 5/8"  
 Girders to combustion chamber tops: Material S Tensile strength 29.33 Depth and thickness of girder  
 at centre 9' x 7 1/8" (2) Length as per Rule 31' 7 1/2" Distance apart 8 1/2" No. and pitch of stays  
 in each 3 at 4 1/2" Working pressure by Rules 254 Combustion chamber plates: Material S  
 Tensile strength 26.30 Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 7/8"  
 Pitch of stays to ditto: Sides 4 1/2" x 8 1/4" Back 8' x 8" Top 4 1/2" x 8 1/2" Are stays fitted with nuts or riveted over Nuts  
 Working pressure by Rules 258 Front plate at bottom: Material S Tensile strength 26.30 Thickness 7/8" 15/16" Douller  
 Lower back plate: Material S Tensile strength 26-30 Thickness 15/16" Douller  
 Pitch of stays at wide water space 14 3/4" Are stays fitted with nuts or riveted over Nuts  
 Working Pressure 260 Main stays: Material S Tensile strength 28-32  
 Diameter At body of stay, or Over threads 3' No. of threads per inch 6 Area supported by each stay 306 sq in  
 Working pressure by Rules 300 Screw stays: Material Iron Tensile strength 21 1/2 Ton min  
 Diameter At turned off part, or Over threads 1 3/4" No. of threads per inch 9 Area supported by each stay 64 sq in

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