

5013

REPORT ON BOILERS.

No. 47531

Received at London Office 1 FEB 1928

of writing Report 192 When handed in at Local Office 30-1 1928 Port of Glasgow

Survey held at Glasgow Date, First Survey 22. 2. 27 Last Survey 17th Jan. 1928.

on the Twin Screw S. "Beauford" (Number of Visits 86) Gross 10042 Tons Net 6060

Built at Glasgow By whom built Barclay Curle & Co. Ltd. Yard No. 617 When built 1928.

Lines made at Wallsend By whom made Parsons Marine Steam Turbine Co. Ltd. Engine No. 241. When made 1928.

Boilers made at Glasgow By whom made Barclay Curle & Co. Ltd. Boiler No. 617 When made 1928.

Indicated Horse Power 1574 Owners Canadian Pacific Steamships Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Wm Beardmore & Co. Ltd. (Letter for Record S)

Net Heating Surface of Boilers 5116 sq ft Is forced draught fitted y/n Coal or Oil fired Coal

and Description of Boilers 2 Single ended return tube Working Pressure 250 lbs

Tested by hydraulic pressure to 425. Date of test 10.10.27. No. of Certificate 14622. Can each boiler be worked separately y/n

Area of Firegrate in each Boiler 57.45 sq ft No. and Description of safety valves to each boiler Direct spring high lift

Area of each set of valves per boiler {per Rule 80 as fitted 80} Pressure to which they are adjusted 250 lbs Are they fitted with easing gear y/n

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler y/n

Smallest distance between boilers or uptakes and bunkers or woodwork well clear Is oil fuel carried in the double bottom under boilers y/n

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Smallest internal dia. of boilers 15'-5 26/32 Length 11'-0" Shell plates: Material S Tensile strength 31-35 tons

Thickness 1 1/32 Are the shell plates welded or flanged y/n Description of riveting: circ. seams {end DR. overlap inter. 4.46} Pitch of rivets {11-12 1/2}

Circ. seams 28 1/2 39.5 winds in pitch Diameter of rivet holes in {circ. seams } 1 1/16 {long. seams } Percentage of strength of circ. intermediate seam {plate 62.16 rivets 46.7}

Percentage of strength of longitudinal joint {plate 84.83 rivets 84.02 combined 84.2} Working pressure of shell by Rules 252

Thickness of butt straps {outer 1 1/4 inner 1 3/8} No. and Description of Furnaces in each Boiler 3 Doughton

Material S Tensile strength 26-30 tons Smallest outside diameter 43 1/2

Length of plain part {top } Thickness of plates {crown 3 3/4 bottom } Description of longitudinal joint held

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 254

Diagonal plates in steam space: Material S Tensile strength 26-30 tons Thickness 1 1/16 Pitch of stays 2 1/2 x 17 1/2

How are stays secured double nuts Working pressure by Rules 253

Diagonal plates: Material {front } S {back } S Tensile strength { } 26-30 tons Thickness { } 3/8

Minimum pitch of stay tubes in nests 9.25 Pitch across wide water spaces 13 3/4 Working pressure {front 256 back 340}

Diagonal plates to combustion chamber tops: Material S Tensile strength 28-32 tons Depth and thickness of girder

Centre 10 1/8 x 1 1/2 Length as per Rule 2'-10 1/16 Distance apart 8 No. and pitch of stays

Each 3 @ 8 1/4 Working pressure by Rules 253 Combustion chamber plates: Material S

Tensile strength 26-30 tons Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 29/32

Pitch of stays to ditto: Sides 8 1/4 x 8 Back 8 1/4 x 8 Top 8 1/4 x 8 Are stays fitted with nuts or riveted over Nuts

Working pressure by Rules 251 Front plate at bottom: Material S Tensile strength 26-30 tons

Thickness 3 1/32 Lower back plate: Material S Tensile strength 26-30 tons Thickness 5 1/4

Pitch of stays at wide water space 13 3/4 x 8 1/4 Are stays fitted with nuts or riveted over Nuts

Working Pressure 250 Main stays: Material S Tensile strength 28-32 tons

Gauge diameter {At body of stay, } No. of threads per inch 6 Area supported by each stay 345 sq in

Working pressure by Rules 252 Screw stays: Material S Tensile strength 26-30 tons

Gauge diameter {At turned off part, } No. of threads per inch 9 Area supported by each stay 66 sq in



