

REPORT ON BOILERS.

No. 72022

Received at London Office 10 SEP 1947

Date of writing Report 21st August 1947 When handed in at Local Office 3-9-47 Port of Glasgow

No. in Reg. Book. Survey held at Glasgow Date, First Survey 27. 9. 45 Last Survey 19th August 1947

20050 on the "BEAVERCOVE" (Number of Visits (11)) Gross 9824 Tons Net 5818.5

Master Built at Govan By whom built Fairfield S. & Coy 4th 1/2 Yard No. 728 When built 1947-8

Engines made at Newcastle-on-Tyne By whom made C. A. Parsons & Co. Ltd Engine No. 2692-5 When made 1947

Boilers made at Govan By whom made Fairfield S. & Coy 4th 1/2 Boiler No. 728 When made 1947

Nominal Horse Power 81.6 Owners Canadian Pacific Steamship Co. Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

For heating purposes and make-up feed.

Manufacturers of Steel Colvilles Ltd (Letter for Record S ✓)

Total Heating Surface of Boilers 1224 sq ft Is forced draught fitted Yes ✓ Coal or Oil fired Oil ✓

No. and Description of Boilers 1 - Howden Johnson type S.E. Working Pressure 100 lbs

Tested by hydraulic pressure to 200 lbs Date of test 2. 4. 46 No. of Certificate 22151 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 - 2 1/4" Double High Lift ✓

Area of each set of valves per boiler {per Rule 6.65 sq ft as fitted 7.96 sq ft Pressure to which they are adjusted 100 lbs Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No ✓

Smallest distance between boilers or uptakes and bunkers or woodwork 5'-0" Is oil fuel carried in the double bottom under boilers Yes

Smallest distance between shell of boiler and tank top plating 3'-0" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 10'-6" Length 6'-6" Shell plates: Material Steel Tensile strength 28/32 tons

Thickness 17/32" Are the shell plates welded or flanged No ✓ Description of riveting: circ. seams {end D.R. taps ✓

long. seams T.R.D.B.S. ✓ Diameter of rivet holes in {circ. seams 13/16" ✓ long. seams 3/4" ✓ Pitch of rivets {2.761" ✓

Percentage of strength of circ. end seams {plate 67.0 ✓ rivets 57.8 ✓ Percentage of strength of circ. intermediate seam {plate - rivets -

Percentage of strength of longitudinal joint {plate 84.0 ✓ rivets 138.0 ✓ combined 95.3 ✓ Working pressure of shell by Rules 101 lbs

Thickness of butt straps {outer 17/32" inner 17/32" No. and Description of Furnaces in each Boiler 1 - Deighton ✓

Material Steel Tensile strength 26/30 ✓ Smallest outside diameter 4'-0" ✓

Length of plain part {top bottom Thickness of plates {crown 1/2" bottom 1/2" ✓ Description of longitudinal joint welded ✓

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 150 lbs

End plates in steam space: Material Steel Tensile strength 26/30 tons ✓ Thickness 7/8" ✓ Pitch of stays 1'-7" x 1'-3 1/2"

How are stays secured D. Nuts ✓ Working pressure by Rules 100 lbs

Tube plates: Material {front back Steel Tensile strength {26/30 tons ✓ Thickness {7/8" ✓

Mean pitch of stay tubes in nests 9 1/8" ✓ Pitch across wide water spaces 13" ✓ Working pressure {front 280 lbs back

Girders to combustion chamber tops: Material Nil ✓ Tensile strength Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material Nil ✓

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material Steel Tensile strength 26/30 tons ✓

Thickness 7/8" ✓ Lower back plate: Material Steel Tensile strength 26/30 tons ✓ Thickness 7/8" ✓

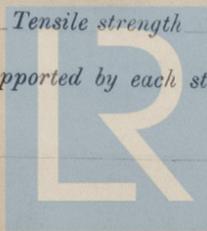
Pitch of stays at wide water space Nil ✓ Are stays fitted with nuts or riveted over

Working Pressure 112 lbs Main stays: Material Steel Tensile strength 28/32 tons

Diameter {At body of stay, or Over threads 2 1/2" ✓ No. of threads per inch 6 ✓ Area supported by each stay 19 1/2" x 19 1/2"

Working pressure by Rules 119 lbs ✓ Screw stays: Material Nil Tensile strength

Diameter {At turned off part, or Over threads No. of threads per inch Area supported by each stay



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