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REPORT ON BOILERS.

No. 5758

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Port of MONTREAL, QUE.

No. in Survey held at MONTREAL, QUE. Date, First Survey June 9th, 1942 Last Survey Nov. 19th 19 42

Reg. Book. on the Single Screw Steamer "FORT CONCORD" (Number of Visits 20 Quebec 29) } Gross 7138.31
Tons } Net 4245.41

Built at LAUZON, LEVIS, P.Q. By whom built DAVIE SHIPBUILDING & REPAIRING COMPANY LTD. Yard No. 539 When built 1942

Engines made at Lachine, P.Q. By whom made Dominion Engineering Ltd. Engine No. 46 When made 1942

Boilers made at LACHINE, P.Q. By whom made DOMINION BRIDGE CO. LIMITED Boiler No. B968 C1 When made 1942

Nominal Horse Power 509 505 Owners Ministry of War Transport Port belonging to Montreal.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Bethlehem Steel, Steel Co. of Canada, Dominion Foundry and Steel - (Letter for Record S)

Total Heating Surface of Boilers 2380 square feet - x 3 = 7140 for 3 blrs Is forced draught fitted Yes Coal or Oil fired Coal

No. and Description of Boilers Three Single Ended Multitubular St 4070 Working Pressure 220 lbs. per sq. in.

Tested by hydraulic pressure to 380 Date of test 31-7-42 No. of Certificate C 4071 Can each boiler be worked separately Yes

Area of Firegrate in each boiler 51 sq. ft. No. and Description of Safety valves to each boiler One Double Spring Safety Valve -

Area of each set of valves per boiler { per Rule 8.87 sq. in. as fitted 7.95 sq. in. Pressure to which they are adjusted 220 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 6'-0" Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 2'-0" Is the bottom of the boiler insulated Yes

Largest internal diameter of boilers 14' - 6-3/16" Length 11' - 9" Shell plates: Material O.H. Steel Tensile strength 29-33 tons per sq. in.

Thickness 1-13/32" Are the shell plates welded or flanged No Description of riveting: circ. seams { end Double inter - -

Long. seams Triple zig zag Diameter of rivet holes in { circ. seams 1 1/8" long. seams 1 1/8" Pitch of rivets { 4-5/16" 10-1/16"

Percentage of strength of circ. end seams { plate 64.0% rivets 47.0% Percentage of strength of circ. intermediate seam { plate - - rivets - -

Percentage of strength of longitudinal joint { plate 85.6% rivets 92.9% combined 88.7%

Thickness of butt straps { outer 1-3/32" inner 1-7/32" No. and Description of Furnaces in each Boiler 3 Morrison Corrugated -

Material O H Steel Tensile strength 26-30 tons Smallest outside diameter 41 inches

Length of plain part { top - - bottom - - Thickness of plates { crown 21/32" bottom - - Description of longitudinal joint lap weld -

Dimensions of stiffening rings on furnace or c.c. bottom - - -

End plates in steam space: Material O H Steel Tensile strength 26-30 tons Thickness 1-7/16" Pitch of stays 21" x 21"

How are stays secured Inside and outside nuts -

Tube plates: Material { front O H Steel back O H Steel Tensile strength { 26/30 tons Thickness { 31/32" 13/16"

Mean pitch of stay tubes in nests 10-5/8" x 8 1/2" = 9.4375 Pitch across wide water spaces 14 1/2"

Girders to combustion chamber tops: Material O H Steel Tensile strength 29/33 tons Depth and Thickness of girder

at centre 2 @ 10 1/2" x 7/8" Length as per Rule 34 inches Distance apart 11 inches No. and pitch of stays

in each 3 @ 7-5/8" Combustion chamber plates: Material O H Steel

Tensile strength 26/30 tons Thickness: Sides 25/32" Back 23/32" Top 25/32" Bottom 25/32"

Pitch of stays to ditto: Sides 10-3/16" x 9" Back 9" x 9" Top 11" x 7-5/8" Are stays fitted with nuts or riveted over Nutted

Front plate at bottom: Material O H Steel Tensile strength 26-30 tons

Thickness 31/32" Lower back plate: Material O H Steel Tensile strength 26-30 tons Thickness 29/32"

Pitch of stays at wide water space 11-3/4" x 9" 14 1/2" Are stays fitted with nuts or riveted over Nutted

Main stays: Material O H Steel Tensile strength 28-32 tons

Diameter { At body of stay 3 1/2" or - - Over threads - - No. of threads per inch 6

Screw stays: Material O H Steel Tensile strength 26-30 tons

Diameter { At turned off part 1-3/4" or - - Over threads - - No. of threads per inch 9



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