

Knab Rpt.

No. 5793

REPORT ON BOILERS.

4 OCT 1943

pt. 5a.
5a

Received at London Office

Date of writing Report Jan. 27th 1943 When handed in at London Office Jan. 25th 1943 Port of MONTREAL, QUE.

Survey held at MONTREAL, QUE. Date, First Survey 19th Nov. 1942 Last Survey 22nd Jan. 1943

on the S. S. "CAMP DEBERT" "CRESCENT PARK" (Number of Visits 24) Tons { Gross
Net

built at PICTOU, N.S. By whom built PICTOU FOUNDRY & MACHINE CO. (Shipbuilding Division) Yard No. 2 When built

Engines made at LACHINE, P. Q. By whom made DOMINION BRIDGE CO. LIMITED Engine No. 2006 When made

Boilers made at LACHINE, P. Q. By whom made DOMINION BRIDGE CO. LIMITED Boiler No. B.1042 P6 When made 1943

nominal Horse Power 269 Owners Port belonging to

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY

Manufacturers of Steel Bethlehem Steel Co., Steel Co. of Canada; Trenton Steel Co; Dom. Foundries & Steel (Letter for Record S)

Total Heating Surface of Boilers 2 BOILERS 3854 square feet Is forced draught fitted Yes Coal or Oil fired Coal

Number and Description of Boilers 2 Multitubular Scotch Boilers Working Pressure 200 lbs./sq. in.

Tested by hydraulic pressure to 350 lbs./sq. in. Date of test 22. 1. 43 No. of Certificate 4584 Can each boiler be worked separately Yes

Area of Firegrate in each boiler 43.25 sq. ft No. and Description of Safety valves to each boiler One Twin Cockburn Improved High Lift 2 1/2" each

Area of each set of valves per boiler { per Rule 6.72 sq. in. Pressure to which they are adjusted 200 lbs/sq. in. Are they fitted with easing gear Yes
as fitted 7.952 sq. in.

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 - Is oil fuel carried in the double bottom under boilers -

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

Largest internal diameter of boilers 13'-6" Length 11'-6" Shell plates: Material O H Steel Tensile strength 29-33 tons

Thickness 1-9/32" Are the shell plates ~~welded~~ or flanged No Description of riveting: circ. seams { end. Welded (Union Melt)
inter.

Long. seams Welded (Union Melt) Diameter of rivet holes in { circ. seams - Pitch of rivets {
long. seams -

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

Percentage of strength of longitudinal joint { plate - rivets - combined -

Thickness of butt straps { outer None inner None No. and Description of Furnaces in each Boiler 3 Morrison corrugated

Material O H Steel Tensile strength 26-30 tons Smallest outside diameter 3'-5-5/8

Length of plain part { top - bottom - Thickness of plates { crown 9/16 bottom 9/16 Description of longitudinal joint Lap weld

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

Stays in steam space: Material O H Steel Tensile strength 26-30 tons Thickness 1-3/16" Pitch of stays 17 3/4" x 18 1/2"

How are stays secured Inside and outside nuts

Stay plates: Material { front O H Steel Tensile strength { 26-30 tons Thickness { 29/32"
back O H Steel 26-30 tons 13/16"

Can pitch of stay tubes in nests 10-3/8" Pitch across wide water spaces 14" x 8 1/2"

Stays to combustion chamber tops: Material O H Steel Tensile strength 28-32 tons Depth and Thickness of girder

Centre 7 3/4" x 7/8" Length as per Rule 2' - 9-15/32" Distance apart 8" centre to centre No. and pitch of stays

Each 2 - 10 3/4" Combustion chamber plates: Material O H Steel

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

Pitch of stays to ditto: Sides 11" x 7 3/4" Back 8-3/8" x 10 1/2" Top 10 3/4" x 8" Are stays fitted with nuts or riveted over Welded washers & welded over

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

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

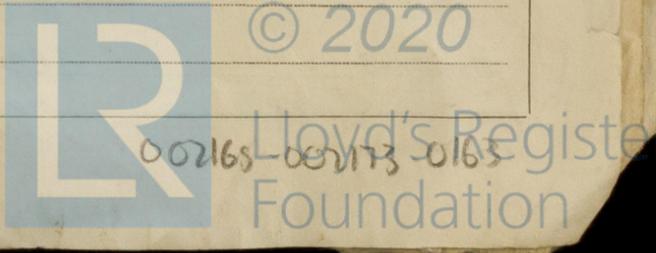
Pitch of stays at wide water space 14-3/8" x 10 1/2" Are stays fitted with nuts or riveted over Welded washers & welded over

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

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

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

At turned off part - No. of threads per inch 9
Over threads 2" and 1 1/2"



Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or Over threads. 2"

No. of threads per inch 9

Tubes: Material O H Steel External diameter { Plain 3" Stay 3" Thickness { #8 L S G 5/16 & 1/4 No. of threads per inch 9

Pitch of tubes 4-1/8" x 4-3/16" Manhole compensation: Size of opening shell plate - Section of compensating ring - No. of rivets and diameter of rivet holes -

Outer row rivet pitch at ends - Depth of flange if manhole flanged - Steam Dome: Material -

Tensile strength - Thickness of shell - Description of longitudinal joint -

Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint { Plate Rivets -

Internal diameter - Thickness of crown - No. and diameter of stays - Inner radius of crown -

How connected to shell - Size of doubling plate under dome - Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell -

Type of Superheater Smoke Tube Manufacturers of { Tubes National Tube Co., Ellwood City, Pa. Steel forgings - Steel castings -

Number of elements 48 Material of tubes O H Seamless Steel Internal diameter and thickness of tubes .69 .095 13 B W G

Material of headers O H Seamless Tube Tensile strength - Thickness 1-1/8" Can the superheater be shut off and the boiler be worked separately - Is a safety valve fitted to every part of the superheater which can be shut off from the boiler -

Area of each safety valve - Are the safety valves fitted with easing gear -

Pressure to which the safety valves are adjusted - Hydraulic test pressure tubes - forgings and castings - and after assembly in place - Are drain cocks on valves fitted to free the superheater from water where necessary -

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with -

The foregoing is a correct description,
DOMINION BRIDGE CO., LIMITED Manufacturer
for A. S. Hall

Dates of Survey { During progress of work in shops - - Nov. 19, 21, 24, 26, 30, Dec. 1, 2, 3, 5, 7, 9, 14, 16, 17, 19, 24, 29, Jan. 5, 9, 13, 16, 19, 20, 22 Mar. 2, 26 Apr. 5, 17
 { During erection on board vessel - - - Mar. 8, 26 Apr. 5, 17 May 14, 20 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits 30

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These BOILERS have been constructed under Special Survey and in accordance with the Approved Plans. The materials and workmanship are good. The shell longitudinal and circumferential end seams are welded by the Union Melt Process. The BOILERS were tested hydrostatically at 350 lbs. per square inch pressure and found tight.

Survey Fee £ \$ 200⁰⁰ : } When applied for, 19
 Travelling Expenses (if any) £ ✓ : } When received, 19

A. G. Pilditch
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 12 OCT 1943

Assigned see minute on S/S R. R. P.



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Lloyd's Register Foundation

Rpt. 13.

Date of writing Report
 No. in Survey Reg. Book
 Built at PI
 Owners Can
 Electric Light
 Is the Vessel fitted

System of Distribution
 Pressure of supply
 Direct or Alternating
 If alternating current
 Has the Automotives
 Generators, do they
 are they over com

Where more than
 series with each s
 approved
 Are all terminals
 short circuited, or

Position of Generators
 in way of the gen
 woodwork or othe
 are the generator
 Earthing, are the
 in metallic conta

a fuse on each ins
 Switchboards, are
 injury and damage
 horizontally from
 materials

is it of an appro
 non-hygroscopic
 type
 Yes
 omnibus bars
 "off" position

switches No
 Generators No
 Outside position has D.P. switch
 Are turbine drive
 fire-resisting mat
 meters one
 Yes
 Earth 1

do these comply