

REPORT ON BOILERS.

No. 5793

4 OCT 1943

Received at London Office

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

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

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

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

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

ominal 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)

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

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 19.12.42 No. of Certificate 4583 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 1/4" each

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

case of donkey boilers, state whether steam from main boilers can enter the donkey boiler -

st Block smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

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

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

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

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

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

made in percentage of strength of longitudinal joint { plate - rivets - combined -

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

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

ngth of plain part { top - bottom - Thickness of plates { crown 9/16 bottom 1/16 Description of longitudinal joint Lap weld

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

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

w are stays secured Inside and outside nuts

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

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

orders 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

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

b 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

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

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

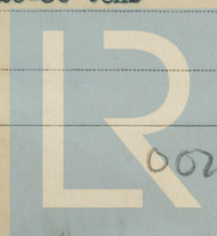
h of stays at wide water space 14-3/8" x 10 1/2" Are stays fitted with nuts or riveted over Welded washers & welded over

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

meter { At body of stay, or Over threads 3 1/4" and 2 1/4" No. of threads per inch 6

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

meter { At turned off part, or Over threads 2" and 1 3/4" No. of threads per inch 9



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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 0 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 0 H Seamless Steel Internal diameter and thickness of tubes .69 .095 13 B W G

Material of headers 0 H Seamless Tube Tensile strength - Thickness 1-1/8" Can the superheater be shut off at 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 Manufacturers
for St. 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, Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - - Mar. 8, 26 Apr. 5, 17 May 14, 20 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 ... \$ 200.00 : When applied for, 19

Travelling Expenses (if any) £ ✓ : When received, 19

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

Committee's Minute TUES. 12 OCT 1943

Assigned see minute on Rpt. 13 Rpt.

Rpt. 13.

Date of writing Report

No. in Survey Reg. Book. ✓ on the

Built at P1

Owners Can

Electric Light

Is the Vessel fitted

System of Distribution

Pressure of supply

Direct or Alternating

If alternating current

Has the Automaton

Generators, do they

are they over come

Where more than

series with each s

approved

Are all terminals

short circuited, or

Position of Gen

in way of the gen

woodwork or other

are the generator

Earthing, are the

in metallic conta

a fuse on each ins

Switchboards, c

injury and damag

horizontally from

materials

is it of an appro

non-hygroscopic

type

Yes

omnibus bars

"off" position

switches No

Generators No

Outside po. No

has D.P. No

Are turbine drive

fire-resisting mat

meters one

Yes

Earth 1

do these comply