

B.C.  
REPORT ON BOILERS.Int'l. Rpt.  
No. 8558

18 JUN 1951

Received at London Office

Date of writing Report 24th April 1951 When handed in at Local Office 24th April 1951 Port of Montreal, Quebec

No. in Survey held at Kingston, Ontario Date, First Survey 12th January 1950 Last Survey 16th April, 1951  
Reg. Book.58270 on the S. S. "ELGIN" (Number of Visits 5) Gross 1906  
Tons Net 1123

Built at Newcastle-on-Tyne By whom built Swan, Hunter &amp; Wigham Richardson Ltd Yard No. When built 1923

Engines made at Newcastle-on-Tyne By whom made Swan, Hunter &amp; Wigham Richardson Ltd Engine No. When made 1923

Boiler made at Collingwood By whom made Collingwood Shipyards Limited Boiler No. 244 When made 2, 41

Owners Canada Steamship Lines Limited Port belonging to Montreal

## VERTICAL BOILER. INSTALLED IN S.S. "ELGIN"

Made at Kingston, Ont By whom made Canadian Shipbuilding &amp; Engineering Co. Ltd. Boiler No. 3 When made 1950 Where fixed Kingston, Ont.

Manufacturers of Steel Luken's Steel Co.

Total Heating Surface of Boiler 524 square feet Is forced draught fitted No Coal or Oil fired Coal

No. and Description of Boilers One - 4'-0" x 9'-3" Vertical Fire Tube Working Pressure 120 lbs/sq. in

Tested by hydraulic pressure to 230 lbs/sq. in Date of test 11th December, 1950 No. of Certificate 6296

Area of fire grate in each Boiler 9.62 sq. ft No. and description of safety valves to each boiler One - Twin 1 1/2" dia. Hi Left

Area of each set of valves per boiler { per Rule 3.23" Pressure to which they are adjusted 120 lbs/sq. in. Are they fitted with easing gear Yes  
as fitted 3.53"

State whether steam from main boilers can enter the donkey boiler No Smallest distance between boiler or uptake and bunkers

or woodwork 18" Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating

3 feet Is the base of the boiler insulated No Largest internal dia. of boiler 48" Height 9'-3"

Shell plates: Material Flange Quality Steel Tensile strength 26/30 Tons Thickness 3/8"

Are the shell plates welded or flanged No If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with - Description of riveting: circ. seams { end Single lap  
interDouble Butt strap long. seams Double Riveted Dia. of rivet holes in { circ. seams 13/16" Pitch of rivets { 2.25" Percentage of strength of circ. seams { plate 63.9%  
long. seams 13/16" { 3.80% rivets 50.4%of longitudinal joint { plate 78.6% Thickness of butt straps { outer 3/8" Shell Crown: Whether complete hemisphere, dished partial  
rivets 141.5% inner 3/8" spherical, or flat Flat Material Flange Quality Steel Tensile strength 26/30 tons Thickness 1/2"

Radius 24" Description of Furnace: Plain, spherical, or dished crown Plain Material Flange Quality Steel

Tensile strength 26/30 tons Thickness 7/16" External diameter { top 42-7/8" Length as per Rule 30"  
bottom 42-7/8"

Pitch of support stays circumferentially 5" and vertically 5" Are stays fitted with nuts or riveted over Riveted

Diameter of stays over thread 1" Radius of spherical or dished furnace crown Flat

Thickness of Ogee Ring 2-5/8" Diameter as per Rule { D 48"  
d 42-7/8"

Combustion Chamber: Material - Tensile strength - Thickness of top plate -

Radius if dished - Thickness of back plate - Diameter if circular -

Length as per Rule - Pitch of stays -

Are stays fitted with nuts or riveted over - Diameter of stays over thread -

Tube Plates: Material Top Flange Quality Steel Tensile strength 26/30 Thickness 1/2" Mean pitch of stay tubes in nests 9"  
Bottom " " Tensile strength 26/30 Thickness 1/2"comprising shell, dia. as per Rule { front - Pitch in outer vertical rows { Dia. of tube holes TOP 2" BOTTOM 2"  
back - plain 2" stay 2" stay 2"

each alternate tube in outer vertical rows a stay tube

Girders to Combustion Chamber Tops: Material - Tensile strength -

Depth and thickness of girder at centre - Length as per Rule -

Distance apart - No. and pitch of stays in each -



Crown Stays: Material..... Tensile strength..... Diameter { at body of stay,.....  
or  
over threads.....  
No. of threads per inch..... Screw Stays: Material..... Tensile strength.....  
Diameter { at turned off part,..... No. of threads per inch..... Are the stays drilled at the outer ends.....  
or  
over threads.....  
Tubes: Material Seamless Steel External diameter { plain 2" Dia..... Thickness { 0.120"  
stay 2" Dia.....  
No. of threads per inch Stay Tubes Welded Pitch of tubes 3"  
Manhole Compensation: Size of opening in shell plate Handholes only Section of compensating ring No. of rivets and diameter  
of rivet holes..... Outer row rivet pitch at ends..... Depth of flange if manhole flanged.....  
Uptake: External diameter..... Thickness of uptake plate.....  
Cross Tubes: No..... External diameters { Thickness of plates.....  
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,  
CANADIAN SHIPBUILDING & ENGINEERING CO. LIMITED

Per;

Manufacture

Dates of Survey { During progress of work in shops - - 1950 Jan. 12, Feb. 2, Dec. 11. Is the approved plan of boiler forwarded herewith No. 5/10/49  
while building { During erection on board vessel - - 1951 March 21, April 16. (If not state date of approval.)  
Total No. of visits 5

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The donkey boiler has been constructed under special survey of tested materials and according to the  
Approved Plan.

The material and workmanship are good throughout. On completion, the boiler was tested under hydraulic  
pressure to 230 lbs/sq.in. with satisfactory results.

The boiler identified in this report (certificate number 6296) has been fitted on board the S.S. "EIGIN"  
and is intended for use only when the main boiler is being cleaned and during the lay up and fitting out periods.

The safety valves of the boiler reported herein were adjusted under steam to the working pressure and a  
satisfactory accumulation test was carried out.

Material test certificates for the boiler in this report are included in those attached to report 8113 & 8

Survey Fee ... .. \$ 90.00 :  
Travelling Expenses (if any) \$ 8.00 :

When applied for May 9 1951  
When received 19

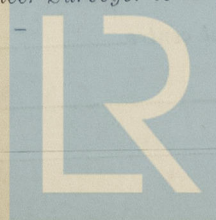
L. M. Mathon

Engineer Surveyor to Lloyd's Register of Shipping.

Date THURS 28 JUN 1951

Committee's  
Minute

See Met 8565



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