

Rpt. 5b.  
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# B.C. REPORT ON BOILERS.

met Rpt-  
No. 8113

110 JUN 1950

Received at London Office.

Date of writing Report 19... When handed in at Local Office 19... Port of Montreal, P.Q.

No. in Survey held at Kingston, Ont. ~~Kingston, Ont.~~ Date, First Survey 16th Dec. 1949 Last Survey 6th April 1950

Reg. Book. 10885 on the Vertical Fire Tube Auxiliary Vertical Boiler (Number of Visits - 7) Gross 2099 Tons Net 1200

Built at Kingston, Ont. By whom built Canadian Shipbuilding & Engineering Yard No. 1 Ltd. When built 1950

Engines made at Mount Vernon, O. By whom made C. and G. Cooper Co. Engine No. When made 1923

Boilers made at Vancouver, B.C. By whom made Dominion Bridge Co. Ltd. Boiler No. 61 - When made 1940

Owners Canada Steamship Lines Ltd. Port belonging to Midland, Ont.

## VERTICAL BOILER. Installed in S.S. "GLENELG"

Made at Kingston, Ont. By whom made Can. Shipbuilding & Eng. Lt. Boiler No. 1 When made 1950 Where fixed Kingston, Ont.

Manufacturers of Steel Lukens Steel Co. and Worth Steel Co.  
524.24 sq.ft. Total

Total Heating Surface of Boiler 364.24 sq.ft. To Working Level Is forced draught fitted No Coal or Oil fired Coal

No. and Description of Boilers 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 27th March, 1950 No. of Certificate 6247

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

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

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 Tensile strength 26/40 tons/sq. in. 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 inter -

long. seams Double Rivetted Dia. of rivet holes in { circ. seams 13/16 Pitch of rivets { 2.25" Percentage of strength of circ. seams { plate 63.9% rivets 50.4%  
long. seams 13/16 3.80"

of longitudinal joint { plate 78.6% rivets 141.5% combined 87% Thickness of butt straps { outer 3/8" inner 3/8" Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Flat Material Flange Quality Tensile strength 26/30 tons/sq. in. Thickness 1/2"

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

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

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

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

Thickness of Ogee Ring 2-5/8" Diameter upper flange { D 48" d 42-7/8"

Combustion Chamber: Material None Tensile strength - Thickness of top plate -

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

Length as per Rule - Pitch of stays -

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

Tube Plates: Material { Top steel flange quality Bottom steel Tensile strength { 26/30 Thickness { 1/2" Mean pitch of stay tubes in nests 9"

If comprising shell, dia. as per Rule { front - back - Pitch in outer vertical rows { 26/30 Dia. of tube holes TOP { stay 2" BOTTOM { stay 2" plain 2" plain 2"

Is each alternate tube in outer vertical rows a stay tube No

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 -

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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 or over threads - No. of threads per inch - Are the stays drilled at the outer ends -

Tube Material Seamless steel External diameter { plain 2" Dia. Thickness .120" stay 2" Dia. Thickness .188"

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,

*[Signature]*

Manufacturer.

Dates of Survey while building { During progress of work in shops 16/12/49, 12/1/50, 2/2/50. Is the approved plan of boiler forwarded herewith Yes (If not state date of approval.) During erection on board vessel 8/2/50, 27/3, 5/4 & 6/4/50. Total No. of visits 7

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The donkey boiler has been constructed under Special Survey of tested material and according to the Approved Plan. The Material and workmanship are good throughout. On completion the boilers were tested under hydraulic pressure to 230 lbs./sq. in. with satisfactory results. The boiler identified in Certificate No. 6247 have been fitted on board the S.S. "GLENEIG" 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 sheets attached herewith.

Survey Fee ... \$90.00 : When applied for May 8 1950  
Travelling Expenses (if any) \$ 8.00 : When received 19

L. N. Mathen  
Engineer Surveyor to Lloyd's Register of Shipping.

Date TUES. 27 JUN 1950

Committee's Minute see note 8114

