

Rpt. 5c.

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## REPORT ON WATER TUBE BOILERS.

No. 6541  
26 JUL 1945

Received at London Office

Date of writing Report 27th. May 1945 When handed in at Local Office 6th. June 1945 Port of QUEBEC, P.Q.  
No. in Survey held at LAUZON, P.Q. Date, First Survey 16th. Sept. 44 Last Survey 26th. May 1945  
Reg. Bk. --- on the Twin Screw Transport Ferry H.M.S.- LST (3) 3507 (Number of Visits Continuous Gross Tons 4290.74  
Net Tons 2430.45  
Built at LAUZON, P.Q. By whom built Davie Shipbuilding & Repairing Co. Ltd. When built 1945  
Engines made at MONTREAL By whom made Canadian Pacific Railway Co. Ltd. When made 1944  
Boilers made at St. Catharines, Ont. By whom made Foster Wheeler Ltd. Angus Shops. When made 1944  
Nominal Horse Power 749 Owners British Admiralty Port belonging to ---

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Tubes supplied by Page Hersey Ltd.  
Date of Approval of plan Approved New York Number and Description or Type  
of Boilers 2 Admiralty Type Three Drum Working Pressure 225 Lbs. Tested by Hydraulic Pressure to 368 Lbs. Date of Test 8-7-44 P&S.  
No. of Certificate Star BC 202 water tube Can each boiler be worked separately Yes Total Heating Surface of Boilers 12,512 sq.ft.  
Is forced draught fitted Yes Area of fire grate (coal) in each Boiler ---  
No. and type of burners (oil) in each boiler Four, Admiralty Type No. and description of safety valves on

each boiler Two, Spring loaded 4" dia. High lift Area of each set of valves per boiler { per rule 16.5 Sq.ins. Pressure to which they  
as fitted 23.1328 Sq.ins.  
are adjusted 225 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 2'-10" and bunkers 2'-10" Height of boiler 13'-3 1/2"

Width and Length 13'-10 1/2" - 13'-3 3/8" Steam Drums:—Number in each boiler One Inside diameter 4'-2"  
Thickness of plates 5/8" & 1 1/8" Range of Tensile Strength --- Are drum shell plates welded  
or flanged Welded If fusion welded, state name of welding firm Vancouver Iron Works Ltd. Vancouver B.C. Have all the requirements of the rules  
for Class I vessels been complied with Yes Description of riveting:—Cir. seams --- long. seams ---

Diameter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of  
long. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes ---

Percentage strength of shell in way of tubes --- Steam Drum Heads or Ends:—Range of tensile strength ---  
Thickness of plates --- Radius or how stayed --- Size of manhole or handhole 12" X 16" Water Drums:—Number  
in each boiler Two Inside Diameter 23" Thickness of plates 9/16" & 1 1/8" Range of tensile strength --- Are drum shell plates  
welded or flanged Welded If fusion welded, state name of welding firm Vancouver Iron Works Ltd. Have all the requirements of the rules  
for Class I vessels been complied with Yes Description of riveting:—Cir. seams --- long. seam ---

Diameter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of  
long. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes ---

Percentage strength of drum shell in way of tubes --- Water Drum Heads or Ends:—Range of Tensile strength ---  
Thickness of plates --- Radius or how stayed --- Size of manhole or handhole 12" X 16"

Headers or Sections:—Number --- Material --- Thickness --- Tested by Hydraulic Pressure to ---  
Tubes:—Diameter --- Thickness --- Number --- Steam Dome or Collector:—Description of  
Joint to Shell --- Inside diameter --- Thickness of shell plates --- Range of tensile  
strength --- Description of longitudinal joint --- If fusion welded, state name of welding  
firm --- Have all the requirements of the rules for Class I vessels been complied with --- Diameter of rivet holes ---

Pitch of rivets --- Thickness of straps --- Percentage strength of long. joint --- Plate --- Rivet ---  
Crown or End Plates:—Range of tensile strength --- Thickness --- Radius or how stayed ---

**SUPERHEATER.** Drums or Headers:—Number in each boiler None Inside Diameter ---  
Thickness --- Material --- Range of tensile strength --- Are drum shell plates welded  
or flanged --- 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:—Cir. seams --- long. seams ---

Diameter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of  
long. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes --- Percentage strength of  
drum shell in way of tubes --- Drum Heads or Ends:—Thickness --- Range of tensile strength ---

Radius or how stayed --- Size of manhole or handhole --- Number, diameter, and thickness of tubes ---  
Tested by Hydraulic Pressure to --- Date of Test --- Is a safety valve fitted to each section of the superheater which  
can be shut off from the boiler --- No. and description of Safety Valves --- Area of each set  
of valves --- Pressure to which they are adjusted --- Is easing gear fitted ---

**Spare Gear.** Has the spare gear required by the rules been supplied YES  
**DAVIE SHIPBUILDING & REPAIRING CO. LTD.**  
Manufacturer.

Dates of Survey } During progress of } **BC INSPECTION** } Is the approved plan of boiler forwarded herewith NO  
while } work in shops - - } 16-9-44 to 26-5-1945 } Total No. of visits Daily attendance.  
building } During erection on }  
board vessel - - }

Is this boiler a duplicate of a previous case YES If so, state vessel's name and report No. C.N. 948

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) The BOILERS have been constructed under  
supervision of British Corporation. Installed on board the Vessel under Special Survey and in  
accordance with the approved Plans and Instructions forwarded by the Admiralty. In conjunction with  
the MACHINERY, it is recommended that the Vessel be classed with Lloyd's Machinery Certificate with  
record of \* L.M.C. 5,45.

Survey Fee Installation \$200.00 When applied for 28 July 1945  
Travelling Expenses (if any) 70.00 When received 19  
Including with Hull Rpt

Committee's Minute FRI 24 AUG 1945  
Assigned See F.E. machy. rpt.

Engineer Surveyor to Lloyd's Register of Shipping  
**Bloomfield**  
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43  
2.  
2.  
43  
NOW  
If not, state whether, and when, one will be sent?  
YES  
Is a Report also sent on the Hull of the Ship?