

sub. Rpt. No. 6541

Rpt. 5c. RPT. 5c.

REPORT ON WATER TUBE BOILERS.

Received at London Office 26 JUL 1945

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 water tube Working Pressure 225 Lbs. Tested by Hydraulic Pressure to 368 Lbs. Date of Test 8-7-44 P&S.

No. of Certificate Port BC 202 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 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. as fitted 23.1328 Sq. ins. Pressure to which they 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 --- 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 25" 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 ---

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 work in shops - -	BC INSPECTION	Is the approved plan of boiler forwarded herewith <u>NO</u>
while building	During erection on board vessel - - -		
		<u>16-9-44 to 26-5-1945</u>	Total No. of visits <u>Daily attendance.</u>

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 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.

Bloomfield Engineer Surveyor to Lloyd's Register of Shipping Lloyd's Register Foundation

If not, state whether, and when, one will be sent? YES

Is a Report also sent on the Hull of the Ship?

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