

# REPORT ON WATER TUBE BOILERS.

mt. Rpt.  
No. 6573

10 AUG 1945

Received at London Office

pt. 5c.

10<sup>th</sup> June 1945 When handed in at Local Office 10<sup>th</sup> June 1945 Port of Montreal, Que.  
No. in Survey held at Montreal, Que. Date, First Survey 12th Sept. 1944 Last Survey 18th May 1945  
eg. Bk. on the Twin Screw Transport Ferry CN 951 (Number of Visits) Daily attendance 4290.74  
Tons { Gross 2430.45  
Net  
Built at Montreal, Que. By whom built Canadian Vickers Ltd. When built 1945  
Engines made at Montreal, Que. By whom made Canadian Vickers Limited When made 1945  
Boilers made at Montreal, Que. By whom made Canadian Vickers Limited When made 1945  
Nominal Horse Power 743 Owners British Admiralty Port belonging to ---

WATER TUBE BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel Tubes supplied by Page Hersey Ltd.  
Number and Description or Type S.1.11.44  
Date of Approval of plan Approved New York Date of Test P.7.11.44

Boilers 2 WT Yarrow Type Working Pressure 225 lbs Tested by Hydraulic Pressure to 387 Total Heating Surface of Boilers 12,512 Sq.ft.  
No. of Certificate S.1249 P.1250 Can each boiler be worked separately Yes  
forced draught fitted Yes

No. and description of safety valves on 4 Admiralty Type  
No. 2 Spring Loaded 4" Dia. High Lift Area of each set of valves per boiler { per rule 16.5 Sq. in.  
as fitted 23.1328 sq.in. Pressure to which they

225 lbs. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter  
donkey boiler No D Boiler Smallest distance between boilers and bunkers 2'3" Height of boiler 13'3 1/2"  
Width and Length 13'10 3/4" 13'3 3/8" Steam Drums: Number in each boiler One Inside diameter 49 5/16"  
Thickness of plates Wrapper 5/8" Tube 1 1/2" Range of Tensile Strength 28-32 tons Are drum shell plates welded

flanged Welded If fusion welded, state name of welding firm Canadian Vickers Ltd. Have all the requirements of the rules  
Class I vessels been complied with Yes  
Diameter of tube holes in drum 1", 1 1/8" & 1 1/2" Pitch of tube holes 1 1/2", 1 11/16" & 2 1/4"

percentage strength of shell in way of tubes 33 1/3 Steam Drum Heads or Ends: Range of tensile strength 26-30 tons  
Thickness of plates 1" & 1 3/16" Radius or how stayed 50" Size of manhole or handhole 12"x16" Water Drums: Number  
each boiler 2 Inside Diameter 22 5/16" Thickness of plates 9/16" & 1 1/2" Range of tensile strength 28-32 Tons Are drum shell plates  
welded or flanged Welded If fusion welded, state name of welding firm Canadian Vickers Ltd. Have all the requirements of the rules

Class I vessels been complied with Yes  
Diameter of tube holes in drum 1", 1 1/8" & 1 1/2" Pitch of tube holes 1 1/2", 1 11/16" & 2 1/4"  
percentage strength of drum shell in way of tubes 33 1/3 Water Drum Heads or Ends: Range of Tensile strength 26-30 Tons  
Thickness of plates 13/16" & 29/32 Radius or how stayed 23" Size of manhole or handhole 12"x16"

Number 17940 1" Dia. 136 1 1/8" Dia. Steam Drums or Collectors Description of  
tubes: Diameter 1", 1 1/8" & 1 1/2" Thickness .104", .116" & .116" Number 216 1 1/2" Dia.  
Percentage strength of tubes joint

None Fitted Inside Diameter ---  
SUPERHEATER. Drums or Headers: Number in each boiler  
Thickness --- Material --- Range of tensile strength --- Are drum shell plates welded  
flanged --- If fusion welded, state name of welding firm --- Have all the requirements of the rules

or 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

The foregoing is a correct description,

Lilaar Manufacturer.  
CANADIAN VICKERS LIMITED

Dates of Survey } During progress of } From 12th Sept., 1944 to 7th Nov. 1944 Is the approved plan of boiler forwarded herewith No  
while } work in shops - - }  
building } During erection on } " 14th Nov., 1944 to 18th May, 1945. Total No. of visits Daily Attendance  
board vessel - - }

Is this boiler a duplicate of a previous case Yes C.N. 948 Montreal Rpt. No. 6540

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been constructed and  
installed on board the Vessel, under Special Survey and in accordance with the Approved Plans and  
instructions forwarded by the Admiralty. The materials have been tested by the Surveyors to this  
Society and the workmanship is good. In conjunction with the Machinery it is recommended that the  
Vessel be classed with Lloyd's : When applied for, 18th July 1945

Machinery Certificate with the record of L.M.C. 5, 45.  
Travelling Expenses (if any) See 270-  
Exps. incl. in Hull Rpt.

Committee's Minute FRI 24 AUG 1945

Assigned See F.E. machy rpt.

Engine Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation