

## REPORT ON WATER TUBE BOILERS.

No. 1101

K.M.B. Rpt. 6665

Received at London Office

23rd. August 45

at of writing Report Nov. 28th, 1944 When handed in at Local Office 25th. Aug. 1945 Port of TORONTO, CANADA & QUEBEC, QUE.  
 No. in Survey held at Toronto, Canada & LAUZON, QUE. Date, First Survey August 2nd Last Survey November 25th 1944  
 eg. Bk. on the Transport Ferry No. 3512 (Number of Visits 26) Gross 4290.74 Tons Net 2430.45  
 Built at Lauzon Levis, Quebec By whom built Davie S.B. & Rep. Co. Ltd. Hull No. 567 When built 1945  
 Engines made at MONTREAL By whom made CANADIAN PACIFIC RAILWAY CO. LTD. When made 1944  
 Boilers made at Toronto, Canada By whom made ANGUS SHOPS John Inglis Co. Ltd. When made 1944  
 Nominal Horse Power 743 Owners Royal Navy Port belonging to --

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel The Steel Co. of Canada Ltd.  
 Date of Approval of plan B.A.T.M. May 1st, 1944. Lloyd's Register of Shipping, Montreal, May 15th, 1944.  
 Boilers One. Three Drum Working Pressure 225 lbs. Tested by Hydraulic Pressure to 387 lbs. Date of Test Nov. 14/44  
 No. of Certificate 1101 Can each boiler be worked separately Yes Total Heating Surface of Boilers 6256 sq. ft.  
 Forced draught fitted Closed Stokehold Area of fire grate (coal) in each Boiler --  
 No. and type of burners (oil) in each boiler Four. Admiralty Pattern No. and description of safety valves on  
 Each boiler One. 4" Double Spring High-Lift Area of each set of valves per boiler { per rule 16.5 sq. ins. Pressure to which they  
 as fitted 25.13 sq. ins.  
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter  
 donkey boiler None Smallest distance between boilers and bunkers 2' - 10" Height of boiler 13' - 8 5/8"  
 Width and Length 13' - 10 5/8", 13' - 0 1/8" Steam Drums: Number in each boiler One Inside diameter 50"  
 Thickness of plates 1 1/2" and 5/8" Range of Tensile Strength 28-32 tons Are drum shell plates welded  
 flanged Welded If fusion welded, state name of welding firm John Inglis Co. Ltd. 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 1.01", 1.135", 1.51" Pitch of tube holes 1 1/2", 1-11/16", 2 1/2"  
 Percentage strength of shell in way of tubes 32.67, 32.74, 32.89 Steam Drum Heads or Ends: Range of tensile strength 26 - 30 tons  
 Thickness of plates Front Head 1 1/2", Back Head 1-1/16" Radius or how stayed Radius Size of manhole or handhole 12" x 16" Water Drums: Number  
 each boiler Two Inside Diameter 23" Thickness of plates 1 1/2" & 9/16" Range of tensile strength 28-32 tons Are drum shell plates  
 welded or flanged Welded If fusion welded, state name of welding firm John Inglis Co. 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 1.01", 1.135", 1.51" Pitch of tube holes 1 1/2", 1-11/16", 2 1/2"  
 Percentage strength of drum shell in way of tubes 32.67, 32.74, 32.89 Water Drum Heads or Ends: Range of Tensile strength 26-30 tons  
 Thickness of plates Front Head 1 1/2", Back 3/4" Radius or how stayed Radius Size of manhole or handhole 12" x 16"  
 Leaders or Sections: Number None Material -- Thickness -- Tested by Hydraulic Pressure to --  
 Tubes: Diameter 1", 1-1/8" & 1 1/2" O.D. Thickness 0.104" & 0.116" Number 216-1 1/2", 436-1-1/8" 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  
 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 Spare Gear Supplied to Admiralty Requirements.

The foregoing is a correct description.

The John Inglis Company Limited

Manufacturer.

Dates of Survey } During progress of } Aug. 2, 12, 14, 24, 29, Sept. 7, 15, 26, Oct. 7, 11, 16, 17, 20, 24, 30  
 while } work in shops -- } Nov. 3, 7, 9, 10, 13, 14, 15, 20, 23, 24, 25.  
 building } During erection on } 17-1-45 to 10-8-45  
 board vessel -- } Continuous Attendance  
 Total No. of visits 26 all in shop

Is this boiler a duplicate of a previous case YES If so, state vessel's name and report No. CN 948 K.M.B. Rpt. 6540

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler was built under the Special Survey of the Society's Surveyors in accordance with the approved plans and has been tested in accordance with the Rules. The workmanship was good and the boiler is eligible in my opinion to be classed in this Society when satisfactorily installed, seen under steam, and the safety valves adjusted.

Boiler was approved and stamped: - 1101

Survey Fee 90.00: } When applied for, July 25 1945  
 Installation ch. 45.00 } Sept. 22-45  
 Travelling Expenses (if any) 15.00: } When received, 19

LLOYDS TEST 387 lbs.

W.P. 225 lbs.

W.H. 14.11.44. (P.T.O.)

W. H. Neallie & Bloomfield  
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 9 NOV 1945

Committee's Minute

Assigned Su F.E. machy. rph.



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TRANSPORT FERRY 3512

## INSTALLATION - QUEBEC:

Boiler 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. 8,45.

SURVEYOR TO LLOYD'S REGISTER OF SHIPPING.

