

REPORT ON BOILERS.

No. 1780

TUE. 22 MARCH 1920

Received at London Office.

RECEIVED NEW YORK Feb. 14 1920

Port of Montreal

When handed in at Local Office Feb. 10 1919

Survey held at Montreal

Date, First Survey May. 6.

Last Survey Nov. 17. 1919

on the S.S. "CANADIAN RANCHER"

(Number of Visits 27) Tons Gross 3550 Net 2158

Built at Three Rivers P.Q. By whom built Tidewater Shipbuilders Ltd. When built 1919

Engines made at Three Rivers By whom made Tidewater Shipbuilders Ltd. When made 1919

Boilers made at Montreal By whom made Canadian Vickers Ltd. When made 1919.

Registered Horse Power 226.5 Owners Canadian Government Port belonging to Montreal

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Midvale Steel & Ordnance Co.

Letter for record S. Total Heating Surface of Boilers 7275 sq ft Is forced draft fitted Yes No. and Description of

Boilers 3 single ended scotch type. Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 20-10-19

Area of Certificate 69.71.42. Can each boiler be worked separately Yes Area of fire grate in each boiler 52 sq ft No. and Description of

Safety valves to each boiler 2 spring loaded 3 1/2" diam Area of each valve 9.621 sq in Pressure to which they are adjusted 183 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 or uptakes and bunkers or woodwork 13" Mean dia. of boilers 13' 9 1/2" Length 11' 6"

Material of shell plates S. Thickness 1 1/4" Range of tensile strength 26-28 TONS Are the shell plates welded or flanged No.

Description of riveting: cir. seams D.R. long. seams DBS. T.R. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8.65"

Gap of plates or width of butt straps 19" Per centages of strength of longitudinal joint rivets 84.4 Working pressure of shell by

plates 203 lbs Size of manhole in shell 16" x 12" Size of compensating ring 29" x 33" No. and Description of Furnaces in each

Boiler 3 Suspension Pull. Material S. Outside diameter 43 5/8" Length of plain part top Thickness of plates crown 9 1/16"

Description of longitudinal joint Weld. No. of strengthening rings Working pressure of furnace by the rules 219 lbs Combustion chamber

plates: Material S. Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 7/8" Pitch of stays to ditto: Sides 9" x 8" Back 8 1/4" x 8 5/8"

Top 9" x 7 3/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 216 lbs Material of stays S. Area at

smallest part 1.76 sq in Area supported by each stay 75.46 sq in Working pressure by rules 210 End plates in steam space: Material S Thickness 1 1/16"

Pitch of stays 17" x 14" How are stays secured Double nuts Working pressure by rules 185 Material of stays S Area at smallest part 6.23 sq in

Area supported by each stay 289 sq in Working pressure by rules 188 lbs Material of Front plates at bottom S Thickness 1 3/16" Material of

lower back plate S. Thickness 1 3/16" Greatest pitch of stays 8 1/4" x 8 3/4" Working pressure of plate by rules Diameter of tubes 2 3/4"

Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates S. Thickness: Front 1 3/16" Back 1/16" Mean pitch of stays 7 1/2" x 7 1/2" Pitch across wide

water spaces 12 1/2" Working pressures by rules 274 lbs Girders to Chamber tops: Material S Depth and thickness of

order at centre 8 1/2" x 1 1/2" Length as per rule 3 1/2" Distance apart 7 3/4" Number and pitch of Stays in each 2-9"

Working pressure by rules 210 lbs Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan 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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

A. Miller Manufacturer.

Dates of Survey During progress of work in shops - - - May. 6-14-20.27, July. 21-25 Aug. 4-11-19.27 Sept. 9-13.25 Oct. 3-7.20 Is the approved plan of boiler forwarded herewith

while building) During erection on board vessel - - - Nov. 10. 20. 27 Dec. 8. 11. 12. 14. 16. 17. Total No. of visits 27.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been constructed in accordance with the approved plans and the rules. The workmanship is good and material has been used according to rule. They have been fitted on the above steamer and the safety valves adjusted under steam to blow at a pressure of 183 lbs. Thickness of nuts used on Machinery Dept.

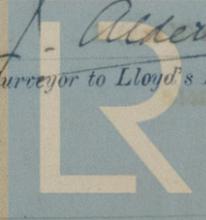
Survey Fee £ 72.50 : When applied for Oct. 29. 1919

Travelling Expenses (if any) £ : : When received Nov. 10. 1919

Committee's Minute TUE. AUG. 17 1920

Assigned See p. 41 attached

H. J. Alderson 2020
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

6710-55113