

pt. 5.

# REPORT ON BOILERS.

No. 21.

REC'D NEW YORK Nov 12 1917 Received at London Office

Where and when the Report was written Nov 10 1917 When handed in at Local Office Nov 10 1917 Port of Toronto

No. in Reg. Book 10010 Survey held at St Catharines Ont. Date, First Survey Oct. 4. 1917 Last Survey 19

on the N.B. for the H. Mass. Wood Sigs "M.P. CONNOLLY" Tons Gross 1368  
Net 1263

Master J. Swain Built at Quebec P.R. By whom built Quebec Shipyard & Repair Co. When built 1918

Engines made at ✓ By whom made ✓ when made ✓

Boilers made at St Catharines By whom made Jencks & Co. when made 1917

Registered Horse Power ✓ Owners Barber Wood Shipping Co. Ltd. Port belonging to Quebec P.R.  
220 Board of Trade Building Montreal.

AND WARE

breaking Test of Steel Wire Towline

Size

3 1/2

2

3

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Letter for record ✓ Total Heating Surface of Boilers ✓ Is forced draft fitted ✓ No. and Description of Boilers ✓

Working Pressure ✓ Tested by hydraulic pressure to ✓ Date of test ✓

No. of Certificate ✓ Can each boiler be worked separately ✓ Area of fire grate in each boiler ✓ No. and Description of safety valves to each boiler ✓

Area of each valve ✓ Pressure to which they are adjusted ✓

Are they fitted with easing gear ✓ 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 ✓ Mean dia. of boilers ✓ Length ✓

Material of shell plates ✓ Thickness ✓ Range of tensile strength ✓ Are the shell plates welded or flanged ✓

Descrip. of riveting: cir. seams ✓ long. seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of rivets ✓

Lap of plates or width of butt straps ✓ Per centages of strength of longitudinal joint ✓ Working pressure of shell by rules ✓

Size of manhole in shell ✓ Size of compensating ring ✓ No. and Description of Furnaces in each boiler ✓

Material ✓ Outside diameter ✓ Length of plain part ✓ Thickness of plates ✓

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

Material: Material ✓ Thickness: Sides ✓ Back ✓ Top ✓ Bottom ✓ Pitch of stays to ditto: Sides ✓ Back ✓

Top ✓ If stays are fitted with nuts or riveted heads ✓ Working pressure by rules ✓ Material of stays ✓ Diameter at smallest part ✓

Area supported by each stay ✓ Working pressure by rules ✓ End plates in steam space: Material ✓ Thickness ✓

Pitch of stays ✓ How are stays secured ✓ Working pressure by rules ✓ Material of stays ✓ Diameter at smallest part ✓

Area supported by each stay ✓ Working pressure by rules ✓ Material of Front plates at bottom ✓ Thickness ✓ Material of Lower back plate ✓

Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules ✓ Diameter of tubes ✓

Pitch of tubes ✓ Material of tube plates ✓ Thickness: Front ✓ Back ✓ Mean pitch of stays ✓ Pitch across wide water spaces ✓

Working pressures by rules ✓ Girders to Chamber tops: Material ✓ Depth and thickness of girder at centre ✓

Length as per rule ✓ Distance apart ✓ Number and pitch of Stays in each ✓

Working pressure by rules ✓ Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately ✓

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

Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓

If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓

Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

sail.

steam hand 9" diameter board?

12' x 14'

4 ft

22. 17.

20. Aug. 16. 25.

Apr. 15. May 11.

plans, the fastenings fastened and the ceiling up to the partners. of the kind sidships cut.

23. 3. 17 - 24.

## VERTICAL DONKEY BOILER— No. no Description Vertical Manufacturers of steel Larkin S. & Co.

Made at St. Catharines By whom made Jencks & Co. When made 1917 Where fixed In 7th St. Cath. Ont. Working pressure 140 lb.

Tested by hydraulic pressure to 210 lb. Date of test 29. 10. 17 No. of Certificate 16 Fire grate area ✓ Description of safety valves Spring loaded

No. of safety valves no Area of each 4. 9 sq ft Pressure to which they are adjusted 140 lb. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler ✓

Dia. of donkey boiler 48 in. Length 7' 6" Material of shell plates Steel Thickness 3/8" Range of tensile strength 60,000 Descrip. of riveting long. seams Little 3 in. Dia. of rivet holes 3/8" Whether punched or drilled punched Pitch of rivets 3. 02

Lap of plating 6. 3/8" Per centage of strength of joint ✓ Rivets 110 Plates 124 Working pressure of shell by rules 140 Thickness of shell crown plates 3/8"

Radius of do. flat No. of Stays to do. 14 Dia. of stays 2" Diameter of furnace Top 42" Bottom ✓ Length of furnace 2' 6"

Thickness of furnace plates 3/8" Description of joint Riveted Working pressure of furnace by rules 190 Thickness of furnace crown plates 3/8" Radius of do. flat Stayed by 14-2 Stay tubes Diameter of uptake ✓ Thickness of uptake plates ✓

Thickness of water tubes ✓

Register of Shipping

The foregoing is a correct description, Manufacturer.

Dates of Survey while building

During progress of work in shops Oct. 4 - 12. 29

During erection on board vessel Dec. 10. 1918 Mar. 2. Apr. 15 June 13.

Total No. of visits 3 + 4 = 7.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " " "



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

This boiler has been constructed under special survey. The material & workmanship is good.

The Boiler has been despatched to the Quebec Steamship Co. Quebec.

This Boiler has been satisfactorily fitted on board, examined under steam and the safety valve adjusted to blow at 140 lbs of steam. In my opinion this boiler is eligible to have the record of **FIN. B 6-18**

*M. J. Alderson*

It is submitted that this vessel is eligible for **THE RECORD.**

+ DB 6.18

*WDA*  
3/9/18.

The amount of Entry Fee...	£	:	When applied for,
Special ...	135	00	1917
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any)	4	18 35	27/9/18
	<b>753</b>	<b>35</b>	

*John W. Roynon*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **FRI SEP - 6 1918**

Assigned **+ DB 618**



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NOTE 1.  
NOTE 2.  
No. of  
Name,  
Date

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.