

REPORT ON BOILERS.

No. 77

MON. 31 MAR. 1918

Received at London Office

City of New York *Sept. 23-1918*
 Date of writing Report *Sept 15 1918* When handed in at Local Office *Sept 20 1918* Port of *Toronto*
 No. in Survey held at *Toronto* Date, First Survey *June 10/18* Last Survey *Sept 16th 1918*
 Reg. Book. *S. S. "War Steamer"* (Number of Visits *17*) Tons { Gross *2334.80*
 Net *1415.68*
 on the *S. M. B. Installation No 22 Howden Boilers*
 Master *J. W. Howell* Built at *Victoria, B.C.* By whom built *Cameron Gouva Mills* When built *1918*
 Engines made at *Goderich* By whom made *National S B & Co* When made *1918*
 Boilers made at *Toronto* By whom made *Colson Iron Works* When made *1918*
 Registered Horse Power *1400* Owners *Easton Greig & Co* Port belonging to *Victoria B.C.*

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

Letter for record *S*) Total Heating Surface of Boilers *5280 sq ft* Is forced draft fitted *yes* No. and Description of Boilers *2 Howdens* Working Pressure *185 lb* Tested by hydraulic pressure to *270 lb* Date of test *2.8.18*
 No. of Certificate *45+48* Can each boiler be worked separately *yes* Area of fire grate in each boiler *60 sq ft* No. and Description of Safety valves to each boiler *2 Spring loaded* Area of each valve *8.29 sq in* Pressure to which they are adjusted
 Are they fitted with casing 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 *18 1/2 in* Length *11' 6 3/4"*
 Material of shell plates *Steel* Thickness *3/16* Range of tensile strength *28-32* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *Single* long. seams *Double* Diameter of rivet holes in long. seams *7/8* Pitch of rivets *2.65*
 Spacing of plates or width of butt straps *4 1/2* Percentages of strength of longitudinal joint rivets *79.9* Working pressure of shell by rules *65.8*
 No. of manholes in shell *2 18* Size of manhole in shell *16 x 12* Size of compensating ring
 No. and Description of Furnaces in each boiler *None*
 Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber
 Stays: Material *Steel* Thickness: *3/4* Sides Back Top Bottom Pitch of stays to ditto: Sides Back
 If stays are fitted with *none* 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 *Steel* Thickness *1"*
 How are stays secured Working pressure by rules *199* Material of stays Diameter at smallest part
 Area supported by each stay Working pressure by rules Material of Front plates *Steel* Thickness *7/8* Material of cover back plate *Steel* Thickness *3/4* Greatest pitch of stays *Dished* Working pressure of plate by rules *185* Diameter of tubes *2"*
 Material of tube plates *Steel* Thickness: Front *1 3/8* Back *1 3/8* Mean pitch of stays Pitch across wide
 Working pressures by rules Girders to Chamber tops: Material *Steel* Depth and thickness of
 at centre *6 1/4 x 2 1/4* Length as per rule *2' 11 7/16* Distance apart *6"* Number and pitch of Stays in each *4 @ 6 3/4"*
 Working pressure by rules *200* Superheater or Steam chest: how connected to boiler *to shell* Can the superheater be shut off and the boiler worked
 Diameter *24* Length *10' 2 1/2"* Thickness of shell plates *7/16* Material *Steel* Description of longitudinal joint *lap* Diam. of rivet
 Pitch of rivets *2.5* Working pressure of shell by rules *255* Diameter of flue Material of flue plates Thickness
 Stays fitted 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 casing gear

VERTICAL DONKEY BOILER—

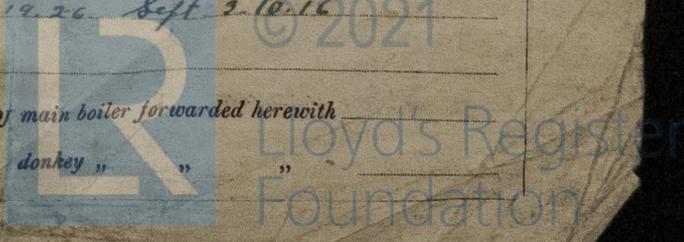
No.	Description	Manufacturers of steel
	By whom made	When made
	Where fixed	Working pressure
	Date of test	No. of Certificate
	Fire grate area	Description of safety valves
	Area of each	Pressure to which they are adjusted
	If fitted with casing gear	If steam from main boilers can
	Dia. of donkey boiler	Length
	Material of shell plates	Thickness
	Range of tensile	
	Descrip. of riveting long. seams	Dia. of rivet holes
	Whether punched or drilled	Pitch of rivets
	Per centage of strength of joint	Working pressure of shell by rules
	Thickness of shell crown plates	
	No. of Stays to do.	Dia. of stays
	Diameter of furnace Top	Bottom
	Length of furnace	
	Description of joint	Working pressure of furnace by rules
	Thickness of furnace crown	
	Radius of do.	Stayed by
	Diameter of uptake	Thickness of uptake plates

The foregoing is a correct description,

Manufacturer.

During progress of work in shops *June 10, 11, 15, 21, 24, July 6, 9, 15, 20, 23, 29, Aug 2, 19, 26, Sept 3, 10, 16*
 During erection on board vessel
 Total No. of visits *17*

Is the approved plan of main boiler forwarded herewith



4810-155900-985900

GENERAL REMARKS (State quality of workmanship, etc.)

These Boilers have been constructed under special supervision
 They are of good material & workmanship & have been
 tested under hydraulic pressure with satisfactory results
 They have been shipped to the place of destination
 board a wooden vessel & will be ready for use
 with date when completed

Certificates (if required) to be sent to

(The Surveys are requested not to write on or below the space for Committee's Minutes.)

The amount of Entry Fee .. £	:	:	When applied for,
Special	£ 60 : 00	:	1919
Donkey Boiler Fee	£	:	When received,
Travelling Expenses (if any) £	:	:	1919

Committee's Minute
 Assigned

TUE 8-APR. 1919
See No. 100 of up

TUE OCT. 12 1920

FRI 22 AUG 1920
 TUE 19 JUL 1921



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