

REPORT ON BOILERS. *Chicago No. 59*

REC'D NEW YORK Dec. 26 1918
 Date of writing Report 1918 When handed in at Local Office 1918 Port of *Chicago, Ill.*
 No. in Survey held at *Manitowoc Wis. & Fort William, Ont.* Date, First Survey *11-4-18* Last Survey *Nov. 21-1918*
 Reg. Book. on the *Steel Single Screw Steam Trawler "Sebastapol"* (Number of Visits) Gross *321.44* Tons Net *50.11*
 Master Built at *H. Williams, Ont.* By whom built *Canada Car & Foundry Co.* When built *1918*
 Engines made at *Chicago, Ill.* By whom made *Marine Iron Works* When made *1918*
 Boilers made at *Manitowoc Wis.* By whom made *Manitowoc Shipbuilding Co.* When made *1918*
 Registered Horse Power *546* Owners *French Government* Port belonging to *Port Arthur, Ont.*

MULTITUBULAR BOILERS — MAIN, ~~AUXILIARY OR DONKEY~~. — Manufacturers of Steel *Illinois Steel Co.*
 (Letter for record *S.*) Total Heating Surface of Boilers *1451* Is forced draft fitted *Yes.* No. and Description of Boilers *One single ended multitubular* Working Pressure *185 lbs* Tested by hydraulic pressure to *278 lbs* Date of test *30-7-18*
 No. of Certificate *39* Can each boiler be worked separately ☒ Area of fire grate in each boiler *36.75* No. and Description of safety valves to each boiler *Double Spring.* Area of each valve *4.9* Pressure to which they are adjusted *185 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 *12"* ^{INT.} dia. of boilers *12'-0"* Length *10'-6"*
 Material of shell plates *S.* Thickness *1 3/32"* Range of tensile strength *6000/71680* Are the shell plates welded or flanged *No.*
 Descrip. of riveting: cir. seams *L. S. R.* long. seams *T. R. D. B. S.* Diameter of rivet holes in long. seams *1 5/16"* Pitch of rivets *9 5/8"*
~~Top of plates~~ width of butt straps *13"* ^{outs.} *21 1/2"* Per centages of strength of longitudinal joint rivets *87.4* Working pressure of shell by rules *188.7* Size of manhole in shell *12" x 16"* Size of compensating ring *36" x 32"* ^{plate} *86.4* No. and Description of Furnaces in each boiler *2. Morrison* Material *S.* Outside diameter *46 1/8"* Length of plain part ^{top} *191* Thickness of plates ^{crown} *9/16"* ^{bottom} *9/16"*
 Description of longitudinal joint *weld* No. of strengthening rings ☒ Working pressure of furnace by the rules *191* Combustion chamber plates: Material *S.* Thickness: Sides *1 9/32"* Back *1 9/32"* Top *1 9/32"* Bottom *2 5/32"* Pitch of stays to ditto: Sides *6 7/8" x 7"* Back *6 7/8" x 6 7/8"*
 Top *6 1/2" x 7 7/8"* If stays are fitted with nuts or riveted heads *Yes - Nuts* Working pressure by rules *187* Material of stays *S.* Area at smallest part *1.19* Area supported by each stay *48.125* Working pressure by rules *197.8* End plates in steam space: Material *S.* Thickness *1"*
 Pitch of stays *16" x 14 3/4"* How are stays secured *D. Nuts.* Working pressure by rules *189* Material of stays *S.* Area at smallest part *4.9*
 Area supported by each stay *236* Working pressure by rules *215.9* Material of Front plates at bottom *S.* Thickness *5/64"* Material of Lower back plate *S.* Thickness *1 1/16"* ^{DOUBLING} Greatest pitch of stays *6 7/8" x 12 1/16"* Working pressure of plate by rules *329* Diameter of tubes *2 1/2"*
 Pitch of tubes *3 3/4" x 3 5/8"* Material of tube plates *S.* Thickness: Front *5/64"* Back *5/64"* Mean pitch of stays *7 1/4" x 11 1/4"* Pitch across wide water spaces *13 1/2"* Working pressures by rules *198* Girders to Chamber tops: Material *S.* Depth and thickness of girder at centre *7 1/2" x 1 1/2"* Length as per rule *28.6* Distance apart *7 3/8"* Number and pitch of Stays in each *3-6 1/2"*
 Working pressure by rules *192.8* 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

CANADIAN CAR & FOUNDRY COMPANY, LIMITED

The foregoing is a correct description,

Manitowoc Shipbuilding Co. Manufacturer.

1918
 Dates of Survey During progress of work in shops - *Apr. 11, 19, 22, 27 May 8, 15, 21, 27, 31 June 6, 18 July 3, 9, 24, 30.* Is the approved plan of boiler forwarded herewith *No.* Duplicate of *Chicago*
 while building During erection on board vessel - *SEPT. 28 - OCT 5-7-16 Nov 14-15-21* Total No. of visits *7* *Fort William* Report No. *45.*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The above boiler has been constructed under Special Survey in accordance with the approved plans. The materials & workmanship are good. The Boiler has been forwarded to Fort William, Ont. to be fitted on board a vessel being constructed there by the Canadian Car & Foundry Company Ltd.*

The above boiler has been fitted on board this ship and found satisfactory under test.

Survey Fee *paid at Chicago \$30.00*
 payable at *Fort William \$15.00*
 Travelling Expenses (if any) *9.85*
 payable at *Chicago.*
 When applied for, 1918
 When received, *Dec. 21* 1918

H. H. W. Belland, J. H. O. K. K. K.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI FEB. 28. 1919

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