

REPORT ON BOILERS.

No. 84

REC'D NEW YORK

Feb. 28. 1917

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Date of writing Report 14th June 1916 When handed in at Local Office 21st June 1916 Port of Cleveland, Ohio.
 No. in Survey held at Buffalo, N. Y. Date, First Survey 2nd Dec 1915 Last Survey 24th May 1916
 Reg. Book. (Number of Visits 17) Tons { Gross }
 on the { Net }
 Master Built at Quincy By whom built Lake Erie Ship. Corp. When built
 Engines made at By whom made when made
 Boilers made at Buffalo By whom made Lake Erie Boiler Works (Buffalo) when made 1916
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Worth & Carnegie

(Letter for record S.) Total Heating Surface of Boilers 7407 sq ft Is forced draft fitted yes No. and Description of Boilers 3 single ended Working Pressure 190 lbs Tested by hydraulic pressure to 285 Date of test 29.5.16
 No. of Certificate 57 Can each boiler be worked separately yes Area of fire grate in each boiler 55 sq ft No. and Description of safety valves to each boiler 2 Spring Area of each valve 9.3 sq in Pressure to which they are adjusted 190 lbs
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers or woodwork 14-2" dia. of boilers 14-2" Length 11-10"
 Material of shell plates steel Thickness 1 1/4" Range of tensile strength 88/32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams D. Riv. long. seams T. R. D. S. Diameter of rivet holes in long. seams 5/16" Pitch of rivets 8"
 Lap of plates or width of butt straps 18 5/8" Per centages of strength of longitudinal joint rivets 96.9 Working pressure of shell by rules 83.6
 Size of manhole in shell 12 x 16" Size of compensating ring flanged end No. and Description of Furnaces in each boiler 3 corrugated Material steel Outside diameter 48 3/16" Length of plain part top 19" Thickness of plates bottom 32"
 Description of longitudinal joint weld No. of strengthening rings 4 Working pressure of furnace by the rules 196 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 4 1/4" Bottom 13/16" Pitch of stays to ditto: Sides 7 1/2 x 6 1/2" Back 7 x 7 1/4"
 Top 7 1/4 x 7 1/2" If stays are fitted with nuts or riveted heads yes Working pressure by rules 193 Material of stays steel Diameter at smallest part 1 1/2" Area supported by each stay 54 sq in Working pressure by rules 202 End plates in steam space: Material steel Thickness 6 1/4"
 Pitch of stays 5 x 15 1/2" How are stays secured D. Riv. Working pressure by rules 200 Material of stays steel Diameter at smallest part 4.9"
 Area supported by each stay 8 1/2 x 15 1/2" Working pressure by rules 219 Material of Front plates at bottom steel Thickness 5/16" Material of Lower back plate steel Thickness 9/16" Greatest pitch of stays 13 x 7" Working pressure of plate by rules 243 Diameter of tubes 2 1/2"
 Pitch of tubes 8 1/2 x 13 1/2" Material of tube plates steel Thickness: Front 1 1/4" Back 3/4" Mean pitch of stays 10 1/4" Pitch across wide water spaces 14" Working pressures by rules 192 lbs Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 1/4 x 20 3/4" Length as per rule 2-6" Distance apart 7 1/2" Number and pitch of Stays in each 3 @ 7 1/4"
 Working pressure by rules 212 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

VERTICAL DONKEY BOILER—

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

The foregoing is a correct description,

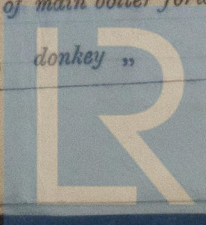
LAKE ERIE BOILER WORKS.

Manufacturer,

Dates of Survey { During progress of work in shops - - } Dec. 2. 5. 15. Jan. 20. 27. 24. 8. 9. 28. May 1. 7. May 8. 29.
 { During erection on board vessel - - }
 while building Total No. of visits 19

Is the approved plan of main boiler forwarded herewith no

" " " donkey " " " " "



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

These tanks have been built under special survey: the material and workmanship being good. They were tested by hydraulic pressure to 285 lbs per sq in and found tight.

These boilers are eligible in my opinion for a working pressure of 190 lbs per square inch.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
$\frac{1}{3}$ Special ...	\$74	:	00	15 th June 1916
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) ...	\$60	:	00	19

Committee's Minute New York MAR 1 1917

Assigned

See other report

A. T. Thomas
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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