

REPORT ON BOILERS.

No. 80

REC'D NEW YORK

Feb. 28. 1917

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Date of writing Report 17th 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 28th May 1916
 Reg. Book. 17 (Number of Visits 17) Tons 285 Gross 285 Net 285
 on the _____
 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 when made 1916
 Registered Horse Power _____ Owners _____ Port belonging to _____

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

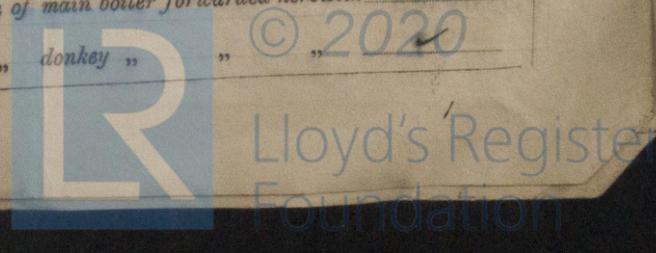
(Letter for record S.) Total Heating Surface of Boilers 7407 sq ft Is forced draft fitted yes No. and Description of Boilers 3 single End Working Pressure 190 lbs Tested by hydraulic pressure to 285 Date of test 29.5.16
 No. of Certificate 57 Can each boiler be worked separately yes Area of fire grate 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 1" 0"
 Smallest distance between boilers or uptakes and bunkers or woodwork 14-2" Main 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 plate 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 19 1/2" Thickness of plates crown 19" bottom 32"
 Description of longitudinal joint weld No. of strengthening rings 1 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 no 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" Area 4.9
 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 4.9 Working pressure by rules 219 Material of Front plates at bottom Steel Thickness 1/16" Material of Lower back plate Steel Thickness 9/16" Greatest pitch of stays 13 x 7" Working pressure of plate by rules 203 Diameter of tubes 2 1/2"
 Pitch of tubes 8 1/2 x 3 1/2" Material of tube plates Steel Thickness: Front 1/16" 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 2 @ 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 _____ 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,
 L. M. McKeon, Mgr. Manufacturer.

Dates of Survey while building: During progress of work in shops - - - 1915 Dec 2. 5. 15. Jan 20. 27. Feb 8. 9. 28. Mar. 1. 15. 28. April 1. 7. May 8. 29.
 During erection on board vessel - - -
 Total No. of visits 19
 Is the approved plan of main boiler forwarded herewith no
 " " " donkey " " no



8400 0078 298M

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 inch 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

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

Committee's Minute New York MAR 1 1917

Assigned See other report



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