

MON. 13 JUN. 1921

ing Report	January 22 1921	When handed in at Local Office	January 28 1921	Port of	Seattle Wash. U.S.A.
Survey held at	Seattle	Date, First Survey	November 29 th	Last Survey	December 23 ^d 1920
on the	3 Main Boilers for E. M. Standifer Construction Corporation	(Number of Visits)	7	Gross	
				Net	
Built at		By whom built		When built	
made at		By whom made		When made	
made at	Seattle	By whom made	Commercial Boiler Works	When made	1920 -
d Horse Power		Owners		Port belonging to	

TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY .—Manufacturers of Steel		Midvale Steel Co.
New York	Each 2695-5	
or record (Ref. 14-1920)	Total Heating Surface of Boilers Total 8086-5	Is forced draft fitted
		No. and Description of

Three (3) Scotch Marine		Working Pressure 220	Tested by hydraulic pressure to 330	Date of test Dec. 23 '92
Certificate 46	Can each boiler be worked separately	Area of fire grate in each boiler		No. and Description of
		Pressure to which they are adjusted		

lves to each boiler

Area of each valve

Pressure to which they are designed

fitted with easing gear

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

14-9 Inside

Mean dia. of boilers 14'-10 $\frac{5}{8}$ " Length 11'-0" ✓

boiler takes and bunkers or woodwork

of shell plates Steel Thickness $1\frac{5}{8}$ ✓ Range of tensile strength 61400 lb. ✓ Are the shell plates welded or flanged Yes
of riveting: cir. seams Double Lap long. seams Triple Butt Diameter of rivet holes in long. seams $1\frac{7}{16}$ Pitch of rivets 10"

~~143~~ width of butt straps 22 $\frac{3}{8}$ Per centages of strength of longitudinal joint plate 74.4 ✓ Working pressure of shell by crown 17.5
243 Size of manhole in shell 12" x 16" Size of compensating ring Hauged No. and Description of Furnaces in each
top = Thickness of plates crown 21/32

3 Morrison Material Steel Outside diameter 48 ✓ Length of plate per bottom — bottom 72
 Union of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 222 Combustion chamber
 Material Steel Thickness: Sides $\frac{1}{2}$ ✓ Back $\frac{1}{2}$ ✓ Top $\frac{1}{2}$ ✓ Bottom $\frac{3}{4}$ ✓ Pitch of stays to ditto: Sides $6\frac{3}{4} \times 7$ Back $7\frac{1}{2} \times 7\frac{1}{2}$

Material Steel Thickness 1/8
 * 8 If stays are fitted with nuts or riveted heads ^{Top-Nuts} ~~Other-Riveted~~ Working pressure by rules 234 Material of stays Iron Area at part 1. 84 Area supported by each stay 56 Working pressure by rules 246 End plates in steam space: Material Steel Thickness 1/4

stays $16\frac{1}{2} \times 18$ How are stays secured Double Nuts Working pressure by rules 237 Material of stays Steel Area at smallest part 2
Supported by each stay 295 " Working pressure by rules 339 Material of Front plates at bottom Steel Thickness $\frac{13}{16}$ Material of
Working pressure of plate by rules 385 Diameter of tubes 3

back plate *Steel* Thickness $\frac{7}{16} + \frac{1}{8}$ Greatest pitch of stays 10
tubes $4" \times 4\frac{1}{8}$ Material of tube plates *Steel* Thickness: Front $\frac{13}{16}$ ✓ Back $\frac{13}{16}$ ✓ Mean pitch of stays ^{tubes} 10" Pitch across wid
plates $12\frac{15}{16}$ Working pressures by rules $27\frac{1}{2}$ Girders to Chamber tops: Material *Steel* Depth and thickness of

at centre $11\frac{1}{2} \times (\frac{3}{4} + \frac{3}{4})$ Length as per rule 34 Distance apart $8'' 8\frac{9}{16}$ Number and pitch of Stays in each 4-7 x 8
g pressure by rules 292 Steam dome: description of joint to shell None % of strength of joint
Description of longitudinal joint Diam. of rivet holes

Thickness of shell plates _____ Material _____ Description of longitudinal joint _____
 rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____
 Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____

HEATER. Type _____ Date of Approval _____
 Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

TICAL DONKEY BOILER—		No.	Description	Manufacturers of steel		
By whom made			When made	Where fixed	Working pressure	
					Position of safety valves	

<i>hydraulic pressure to</i>	<i>Date of test</i>	<i>No. of Certificate</i>	<i>Fire grate area</i>	<i>Description of safety valves</i>
<i>safety valves</i>	<i>Area of each</i>	<i>Pressure to which they are adjusted</i>	<i>If fitted with easing gear</i>	<i>If steam from main boilers cut off</i>
	<i>Length</i>	<i>Material of shell plates</i>	<i>Thickness</i>	<i>Range of tensile strength</i>

donkey boiler Dia. of donkey boiler ~~Whether punched or drilled~~ Pitch of rivets
 Descrip. of riveting long. seams ~~Dia. of rivet holes~~
~~Plating~~ Rivets Working pressure of shell by rules Thickness of shell crown plates
 Per centage of strength of joint 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		
		Diameter of uptake	Thickness of uptake plates	

Radius of do. _____ Stayed by _____ Diameter of uptake _____
 ss of water tubes _____

The foregoing is a correct description,
Commercial Boiler Works _____ Manufacturer

During progress of work in shops - - Nov. 29 Dec. 3-8-15-20-22-23

9 { During erection on board vessel - - - } Is the approved plan of main boiler forwarded herewith *yes*
 Total No. of visits *Stop 7* " " " donkey " " "

009954-009961-0213

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

The three (3) main Boilers have been built under special survey and in accordance with the approved plan, the material tested as required by the rules, and the workmanship of good quality: They have been tested under hydraulic pressure and found tight and sound. When they are installed in a vessel classed in Lloyd's Register of Shipping will be eligible, in my opinion, to be noted in the Register Book.

Marks and Numbers

No. 256
LLOYD'S TEST
TP 330 1/4
WP 220 "
J.F. 23-12-20

No. 257
LLOYD'S TEST
TP 330 1/4
WP 220 "
J.F. 23-12-20

No. 258
LLOYD'S TEST
TP 330 1/4
WP 220 "
J.F. 23-12-20

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £ : : When applied for,
Special survey #208: 10 : January 22, 1921
Donkey Boiler Fee £ : : When received,
Travelling Expenses (if any) £ : : See P. 19 of report 13/6/21

Committee's Minute New York MAY 31 1921

Assigned

See P. 19 Rpt 633

James Fowler
Engineer Surveyor to Lloyd's Register of Shipping



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Foundation