

THU. NOV. 14. 1912

191 Port of Bremen

191 Port of Port of  
Date, First Survey April 10th Last Survey Oct. 31st 1912  
(Number of Visits 6) (Gross 5660)

Req. Book.

No. in Survey held at *Jeffersonville*  
Reg. Book. *See Sec. 2 "Sturmfels"*  
at 53 on the

Master *L. Schmidt*

Engines made at

Boilers made at

Registered Horse Power

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

(Letter for record *u*) Total Heating Surface of Boilers *1054* ☒ Is forced draft fitted *101* ☒  
Tested by hydraulic pressure to *192* Date of test *24.5.12*

Boilers	Working Pressure	Tested by	No. and Description of
1 cylindrical multibutular	120 lb	1	450'
	115		132 ft

No. of Certificate 28 Can each boiler be worked separately yes  
 2 chains loaded ✓ Area of each valve 6.840 ✓ Pressure to which they are adjusted 192 w  
no ✓

safety valves to each boiler & spring washer

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

11' 11 1/4" Length 10' ✓

Are they fitted with easing gear? *Yes* *12 4* Mean dia. of boilers *14 - 15 1/2* Long *167*  
 5. What distance between boilers or uptakes and bunkers or woodwork *24 5* the shell plates welded or flanged *flanged*

Material of shell plates 1. M. steel ✓ Thickness 5/164 ✓ Range of tensile strength 26,700-30,500 ✓ Are the shell plates 15/16 ✓  
 Diameter of rivet holes in long. seams 15/16 ✓ Pitch of rivets 6 9/16 ✓

Descrip. of riveting: cir. seams double long. seams double Diameter of rivet hole 1 1/2 rivets 90.8% Working pressure of shell 100  
 Descrip. of riveting: cir. seams double long. seams double Diameter of rivet hole 1 1/2 rivets 85.5% Working pressure of shell 100

Lap of plates or width of butt straps  $14 - 1/32$  Per centages of strength  $11 13/16 - 15 3/4$  Size of compensating ring  $357/16$  No. and Description of Furnaces in each crown  $41/14$

rules 138 ft Size of manhole in shell 11 1/2 in ☒ Outside diameter 37 7/16 ☒ Length of plain part 7' 2 1/2" Thickness of plates 1/8"  
Material 1/2 in steel ☒ bottom 129 ft Combustion cham

boiler 3 plain Material *Welded* No. of strengthening rings *32* Working pressure of furnace by the rules *7/8* Examination of longitudinal joint *Welded* Pitch of stays to ditto: Sides *8 5/8"* Back *7 5/16"*

plates: Material *M. steel* Thickness: Sides *37/64* Back *11/32* Top *5/164* Bottom *1/8* Pitch of stays to *151/16* Material of stays *iron* Diameter *5/16*

Top  $9\frac{5}{8}$  If stays are fitted with nuts or riveted heads *none* Working pressure by rules *220 lb* End plates in steam space: Material *M. steel* Thickness *3/16*

smallest part  $13/8$  Area supported by each stay  $470$  Working pressure by rules  $135$  Material of stays  $4$  Diameter at smallest part  $7/8$  Material

Pitch of stays  $3\frac{3}{4}$  How are stays secured Welded Working pressure by rules 158 lbs Material of Front plates at bottom M. Steel Thickness 1/8 Diameter of tubes 3"

Area supported by each stay  $7 \frac{1}{2}$  Working pressure of plate by rules  $10 \frac{1}{2}$  Diameters  $5 \frac{1}{2}$   
 Thickness  $5 \frac{1}{4}$  Greatest pitch of stays  $7 \frac{1}{2}$  Mean pitch of stays  $8 \frac{29}{32}$  Pitch across

Pitch of tubes  $4\frac{1}{16} \times 4\frac{1}{2}$  ✓ Material of tube plates  $\frac{1}{4}$  in. ~~steel~~ Thickness: Front  $\frac{1}{8}$  Back  $\frac{1}{16}$  Mean pitch of tubes  $4\frac{1}{16}$  ✓  
Similar to Chamber tops: Material  $\frac{1}{4}$  in. ~~steel~~ Depth and thickness  $\frac{1}{4}$  in. ✓

water spaces  $14 \frac{3}{16}$  ✓ Working pressures by rules  $140$  to  $27 \frac{3}{16}$  ✓ Girders to Channels  $14$  ✓  
Distance apart  $27 \frac{3}{16}$  ✓ Number and pitch of Stays in each  $2-8 \frac{3}{8}$  ✓

girder at centre  $7\frac{1}{4}/6 \times \frac{1}{2}$  Length as per rule ~~20~~ Distance from

Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler a

Diagram

[illegible]

separately	Diameter	Body	Diameter of flue	Material of flue plates
Pitch of rivets	Working pressure of shell by rules		End plates	Thickness
				How stayed

notes \_\_\_\_\_

If stiffened with rings \_\_\_\_\_ Distance between rings \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Enu plates: \_\_\_\_\_

Are they fitted with easing gear \_\_\_\_\_

Working pressure of end plates \_\_\_\_\_ Area of safety valves to superheater \_\_\_\_\_  
 \_\_\_\_\_ Manufacturers of steel \_\_\_\_\_

VERTICAL DONKEY BOILER—	No.	Description	When made	Where fixed	Working pressure

<i>Made at</i>	<i>By whom made</i>	<i>No. of Certificate</i>	<i>When made</i>	<i>Fire grate area</i>	<i>Description of safety valves</i>
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tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ No. of Certificate \_\_\_\_\_  
 \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ If fitted with easing gear \_\_\_\_\_ If steam from main boiler \_\_\_\_\_  
 \_\_\_\_\_ Range of \_\_\_\_\_

No. of safety valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which \_\_\_\_\_ Thickness \_\_\_\_\_  
Diam. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates \_\_\_\_\_ Pitch of rivets \_\_\_\_\_

enter the donkey boiler	Describe riveting long. seams	Dia. of rivet holes	Whether punched or drilled
Strength			Thickness of shell crown plates

Rivets..... Working pressure of shell by rules  
 Plates..... Diameter of furnace Top..... Bottom..... Length of furnace.....  
 Lap of plating..... Per centage of strength of joint

Radius of do. \_\_\_\_\_ No. of Stays to do. \_\_\_\_\_ Dia. of stays \_\_\_\_\_ Diameter of furnace by rules \_\_\_\_\_ Thickness of furn \_\_\_\_\_  
 Working pressure of furnace by rules \_\_\_\_\_

Thickness of furnace plates	Description of joint	Stained by	Diameter of uptake	Thickness of uptake plates

plates ..... Radius of do. ....

The foregoing is a correct description of the foregoing ~~Man~~ Man

Thickness of water tubes

N. Whiteaker

1913. April 10, 30. May 10, 24

Dates of Surreyn { During progress of work in shops - Oct. 7. 31.  
During erection on boiler forwarded herewith

Is the approved plan of main boiler for donkey " " "

00484200





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

*See Report on Machinery.*

Certificate (if required) to be sent to *Treasury Office*

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

The amount of Entry Fee .. £	:	:	When applied for,
Special .. .. £	:	:	.....19.....
Donkey Boiler Fee .. .. £	:	:	When received,
Travelling Expenses (if any) £	:	:	.....19.....

*Committee's Minute*

*Assigned*

TUE. NOV. 19. 1912

*G. H. C. Kamm*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation