

# Bubble Leak Test

Car Mark and  
Car Number: TILX 191300

Date: 10/17/2019

DOT Stenciled  
Specification: 111A100W1

Acceptance Criteria: No Leaks

Examiner: KYLE HANDSHOE

NDT  
Level: Level II

Test  
Results:  Accepted  Rejected

## Leak Detector Solution

Sherlock CG 40 F - 125 F  Sherlock "Low Temp" - 40 F - 125 F  Snoop

Other SHERLOCK "LOW TEMP" -  
10°F - 160°F

## Test Conditions

Gas Type: Shop Air Test Pressure: 30 psi Hold Time: 10

Temperature of the Part being tested: 65.2 Farenheit

## Test Areas

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Pressure Plate or manway cover               | <input checked="" type="checkbox"/> Multihousing Assembly      |
| <input checked="" type="checkbox"/> Bottom Outlet Valve And Cap                  | <input checked="" type="checkbox"/> Vacuum Relief Valve        |
| <input checked="" type="checkbox"/> Air Inlet Valve                              | <input type="checkbox"/> Sample Valves                         |
| <input checked="" type="checkbox"/> Pressure Relief Device (flanged connections) | <input checked="" type="checkbox"/> Loading / unloading Valves |
| <input type="checkbox"/> Thermowell fitting (threaded connection)                | <input type="checkbox"/> Other                                 |
| <input type="checkbox"/> Gauging Devices   |  |

Comments: All Gaskets, Valves, Fittings &  
Sealing Surfaces

Test Procedure & Rev.: QI-T-1029 REV A Test Location: TRINITY RAIL MAINTENANCE  
SERVICES, JONESBORO, TIJA NDT Method: Bubble Leak  
(Shop Name and Location)

Equipment Type: Pressure Gage Id Number: E365565 Cal. Due Date: 02/29/2020

Equipment Type: Temp. Gage Id Number: 41622524WS Cal. Due Date: 11/17/2019

Equipment Type: Other Id Number: NA Cal. Due Date: NA

## Tank Car Qualification Report - Tank Qualification

### Car Details

Car Mark : <input style="width: 150px; height: 25px;" type="text" value="TILX"/>	Car Number : <input style="width: 150px; height: 25px;" type="text" value="194769"/>
Constructed Tank Specification : <input style="width: 150px; height: 25px;" type="text" value="111A100W1"/>	Inspection Date : <input style="width: 150px; height: 25px;" type="text" value="08/07/2017"/>
Stenciled Tank Specification : <input style="width: 150px; height: 25px;" type="text" value="111A100W1"/>	Inspected By : <input style="width: 150px; height: 25px;" type="text" value="Hannah Luce"/>
Last Reported Contents : <input style="width: 150px; height: 25px;" type="text" value="4909152 (ETHYL-ALC-ANHYD)"/>	SI Reference # : <input style="width: 150px; height: 25px;" type="text" value="370385"/>
Inspection Site : <input style="width: 150px; height: 25px;" type="text" value="TRINITY RAIL&lt;br/&gt;MAINTENANCE SERVICES -&lt;br/&gt;SAGINAW 25"/>	Station Stencil : <input style="width: 150px; height: 25px;" type="text" value="TXXV"/>

### Structural Integrity Inspection - Internal Visual Inspection

Record visual inspection results for tank shell and heads, per the requirements of FQ-TK-G-018  
(if repairs are made, list repair method)

a) Abrasion : <input style="width: 250px; height: 25px;" type="text" value="None or within accepted limits"/>	Comment :
b) Corrosion : <input style="width: 250px; height: 25px;" type="text" value="None or within accepted limits"/>	Comment :
c) Cracks : <input style="width: 250px; height: 25px;" type="text" value="None"/>	Comment :
d) Dents : <input style="width: 250px; height: 25px;" type="text" value="None or within accepted limits"/>	Comment :
e) Distortion : <input style="width: 250px; height: 25px;" type="text" value="None or within accepted limits"/>	Comment :
f) Weld Defects : <input style="width: 250px; height: 25px;" type="text" value="None"/>	Comment :

### Structural Integrity Inspection - External Visual Inspection

Record visual inspection results for tank shell and heads, per the requirements of FQ-TK-G-018  
(if repairs are made, list repair method)

**Tank Car Qualification Report - Tank Qualification**






## Tank Car Qualification Report - Tank Qualification

a) Abrasion :	None or within accepted limits	Comment :
b) Corrosion :	None or within accepted limits	Comment :
c) Cracks :	Repaired as outlined	Comment :
d) Dents :	None or within accepted limits	Comment :
e) Distortion :	None or within accepted limits	Comment :
f) Weld Defects :	None	Comment :

Record inspection results for the inboard body bolster web to draft sill attachment welds, per FQ-TK-G-018 & FQ-TK-G-019

Inspection Method :	[VT] Direct Visual	A - End :	Accepted	Comment :
		B - End :	Accepted	Comment :

Record inspection results for the inboard draft sill to rear sill pad attachment welds, per FQ-TK-G-018 & FQ-TK-G-019

Inspection Method :	[VT] Direct Visual	A - End :	Accepted	Comment :
		B - End :	Accepted	Comment :

### Ultrasonic Girth Weld Inspection

Record inspection results for tank shell butt welds within 2' of bottom longitudinal centerline, per the requirements of FQTKG020;

NOTE: Girth weld seam #1 is the B-end head to tank shell ring

a) Girth Seam # 1 (B - End) :	Accepted	Comment :
b) Girth Seam # 2 :	Accepted	Comment :
c) Girth Seam # 3 :	Accepted	Comment :
d) Girth Seam # 4 :	Accepted	Comment :
e) Girth Seam # 5 :	Accepted	Comment :
f) Girth Seam # 6 :	Accepted	Comment :

## Tank Car Qualification Report - Tank Qualification

4; GUAGE AND REWELD






## Tank Car Qualification Report - Tank Qualification

g) Girth Seam # 7 :	Accepted	Comment :
h) Girth Seam # 8 (A - End) :	NA	Comment :

### Safety System Inspection

Verify and inspect the integrity of the applicable Safety System components

a) Thermal protection system :	NA	Comment :
b) Tank head puncture resistance :	NA	Comment :
c) Coupler vertical restraint system :	Accepted	Comment :
d) Skid protection system :	Accepted	Comment :
e) Protective housing :	Accepted	Comment :
f) Insulation :	NA	Comment :

### Shipped Qualification Stencil

Tank Qualification stencil as shipped :	Station :	TRINITY RAIL MAINTENANCE SERVICES - SAGINAW 25	Qualified :	07/11/2017	Due :
	Verify legible markings on the tank car :	Acceptable			

### Acceptable results of inspection and tests

This tank car conforms to the requirements set forth and has successfully passed the structural integrity inspection and test and shows no structural defect that may initiate cracks or propagate cracks and cause failure of the tank before the next inspection and test interval. All inspection and test were performed in accordance with the requirements of 49 CFR 180, Subpart F and the Trinity tank car qualification manual.

Visual Inspector Name :	ANDRES GONZALEZ	Level :	2	Date :	07/11/2017
Testing Technician Name :	JOEL REYES	Level :	2	Date :	07/11/2017

**Tank Car Qualification Report - Tank Qualification**







2027



## Tank Car Qualification Report - Tank Qualification

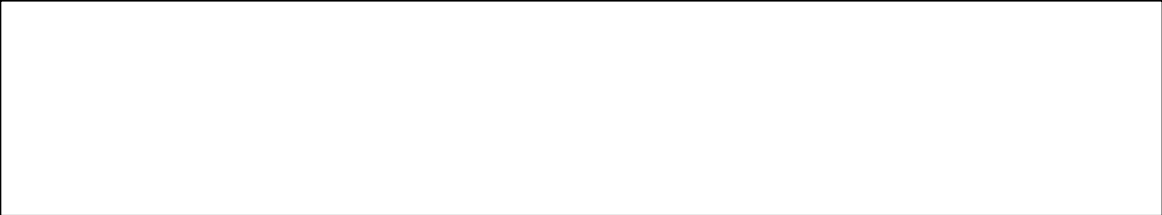
Recorded By :

Hannah Luce

Comments :



**Tank Car Qualification Report - Tank Qualification**



**Tank Car Qualification  
TCQ-1 Appendix B to DOT - SP 12095  
Inspection and Test Report**

Car Mark and Car Number: TILX 192469 Date: 03/24/2016  
 Constructed Tank Specification: 111A100W1  
 Stenciled Tank Specification: 111A100W1 Inspector's Signature: TROY STEWART  
 Type of Lining: (AS Received) NA  Jacketed  Non-Jacketed  
 Lining Station: (AS Received) N/A  
 Lining Date: (AS Received) N/A  
 Last Reports Contents: 4909152(ETHYL-ALC-ANHYD)  
 Location of inspection site:  
 (include address and zip code) TRANSCO RAILWAY PRODUCTS INC, OELWEIN/TRAO, IA, USA

**Visual inspection per DOT 180.509(d)**

1. Visually inspect tank shell and heads both internally and externally for the following:  
 Except in areas where insulation or a thermal protection precludes it.

	Interior	
	Accepted	Repaired
a) abrasion	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) corrosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) cracks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) dents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) distortions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) defects in welds	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Exterior		
	Accepted	Repaired	N/A
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Visually inspect piping, valves, fittings and gaskets for corrosion: Accepted  Repaired  \* N/A
3. Visually inspect for missing or loose bolts, nuts unsafe elements: Accepted  Repaired  \* N/A
4. Inspect all closures for proper securement in a tool tight condition: Accepted  Repaired  \* N/A
5. Inspect the protective housing for proper securement: Accepted  Repaired  \* N/A
6. Inspect excess flow valves with threaded seats for tightness: Accepted  Repaired  \* N/A
7. Verify legible marking on the tank car: Accepted  Repaired  \* N/A

**7.1 Tank qualification decal information shall be recorded below**

111A100W1	Station	Qualified	Due
Tank Qualification	TRAO	2016	2026
Thickness Test	TRAO	2016	2026
Service Equipment	TRAO	2016	2026
Value / Vent 75 PSI	TRAO	2016	2026
Int. Heater Coils(opt)	NA	NA	NA
Coating / Lining	NA	NA	NA
Type	NA		
Date Applied			
88-B-2	TRAO	2016	2026
Stub Sill	TRAO	2016	2026

\*Note: location and description of defects found and methods used to repair must be reported on form DOT 180

**Tank Car Qualification  
TCQ-1 Appendix B to DOT - SP 12095  
Inspection and Test Report**

Car Mark and Car Number: TILX 192469

Date: 03/24/2016

**Structural Integrity Inspection per DOT 180.509(e)  
by Inspection Method listed**

8. Inspect the tank for structural integrity:

8.1 Listed are the approved methods to determine that the welds are in proper condition. (1) dye penetrant test (2) radiography (3) magnetic particle (4) ultrasonic test (5) visual inspection (e.g. direct visual, magnifiers, fiber scopes, bore scopes, & magnifiers, fiber scopes, bore scopes, & machine vision technology).

8.2 Inspect all high stressed transverse fillet welds greater than (0.25 inch) within 4 feet each side of the bottom centerline (8 feet total); high stressed areas include Dead Lever Bracket Pad, Brake Cylinder Support Pad, Bottom Outlet Saddle, Internal Education Pipe guide, Front Sill Pad, Rear sill Pad, and BOV welds.

Method #
#5 VT

Accepted  Repaired \* N/A

**Comments:** NO DEFECTS FOUND AT TIME OF INSPECTION

8.3 Inspect the terminations of high stressed longitudinal fillet welds greater than (0.25 inch) 4 feet each side of the of the bottom centerline (8 feet total):

Method #
#5 VT

Accepted  Repaired \* N/A

**Comments:** NO DEFECTS FOUND AT TIME OF INSPECTION

**Inspectors Signature:** TROY STEWART

\* Note: location and description of defects found and methods used to repair must be reported on form DOT 180

**Tank Car Qualification  
TCQ-1 Appendix B to DOT - SP 12095  
Inspection and Test Report**

Car Mark and Car Number: TILX 192469

Date: 03/24/2016

**Structural Integrity Inspection per DOT 180.509(e)  
by Inspection Method listed**

8.4 Inspect all tank shell butt welds within (2 feet) of the bottom longitudinal centerline(4 feet total)

		Method #								
Tank Shell Butt Welds (Girth Seams):	B end	Grith #1	#4 UT	Accepted	<input checked="" type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input type="checkbox"/>
		Grith #2	#4 UT	Accepted	<input checked="" type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input type="checkbox"/>
		Grith #3	#4 UT	Accepted	<input checked="" type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input type="checkbox"/>
		Grith #4	#4 UT	Accepted	<input checked="" type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input type="checkbox"/>
	A end	Grith #5	#4 UT	Accepted	<input checked="" type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input type="checkbox"/>
		Grith #6	#4 UT	Accepted	<input checked="" type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input type="checkbox"/>
		Grith #7	#4 UT	Accepted	<input checked="" type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input type="checkbox"/>
		Grith #8	#4 UT	Accepted	<input type="checkbox"/>	Repaired	<input type="checkbox"/>	*	N/A	<input checked="" type="checkbox"/>

**AAR M-1002 Appendix D, Paragraph 3.1.1.2. - Inboard of Bolster**

End Location	Description	Accept	Repaired	Comments/ Measurements
A	Inspect Welds attaching the bolster to th draft sill	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
B	Inspect Welds attaching the bolster to th draft sill	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
A	Inspect Welds attaching the Draft sill to the sill pad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
B	Inspect Welds attaching the Draft sill to the sill pad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA

Inspectors Signature: TROY STEWART

\* Note: location and description of defects found and methods used to repair must be reported on form DOT 180

**Tank Car Qualification  
TCQ-1 Appendix B to DOT - SP 12095  
Inspection and Test Report**

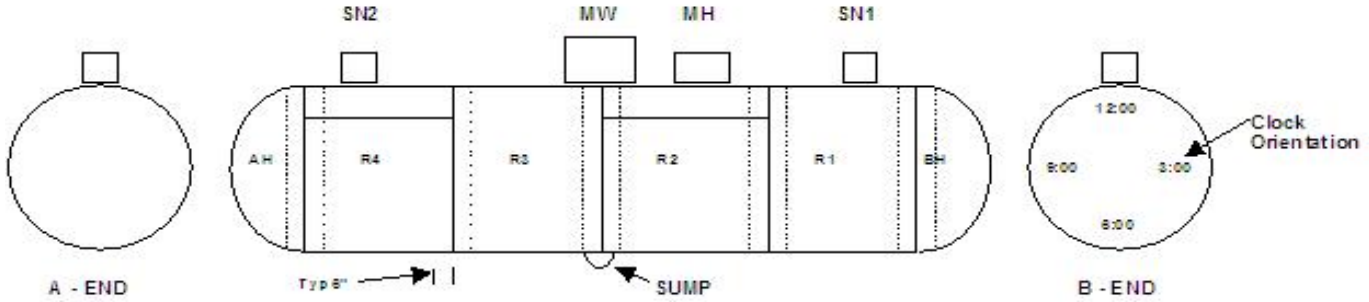
Car Mark and Car Number: TILX 192469

Date: 03/24/2016

**Thickness Test per DOT 180.509(f)**

9 Measure the thickness of the following and verify compliance with minimum thickness. If corrosion is visible, then take additional readings in a grid pattern to determine the minimum thickness in suspect areas and record the readings on a corrosion report

**Record Original Shell Thickness: 0.4375**



Location	Thickness	Location	Thickness	Location	Thickness	Location	Thickness	Location	Thickness
R1B12:00	0.446	R2B12:00	0.452	R3B12:00	0.455	R4B12:00	0.455	R5B12:00	0.457
R1B3:00	0.443	R2B3:00	0.460	R3B3:00	0.459	R4B3:00	0.460	R5B3:00	0.458
R1B6:00	0.450	R2B6:00	0.463	R3B6:00	0.466	R4B6:00	0.462	R5B6:00	0.464
R1B9:00	0.448	R2B9:00	0.460	R3B9:00	0.462	R4B9:00	0.452	R5B9:00	0.465
R1A12:00	0.450	R2A12:00	0.452	R3A12:00	0.460	R4A12:00	0.453	R5A12:00	0.455
R1A3:00	0.461	R2A3:00	0.459	R3A3:00	0.471	R4A3:00	0.457	R5A3:00	0.457
R1A6:00	0.451	R2A6:00	0.465	R3A6:00	0.470	R4A6:00	0.457	R5A6:00	0.462
R1A9:00	0.454	R2A9:00	0.462	R3A9:00	0.466	R4A9:00	0.452	R5A9:00	0.461

Location	Thickness	Location	Thickness	Location	Thickness
R6B12:00	0.455	BH	0.523	AH	0.520
R6B3:00	0.455	BH12:00	0.531	AH12:00	0.530
R6B6:00	0.461	BH3:00	0.530	AH3:00	0.533
R6B9:00	0.455	BH6:00	0.533	AH6:00	0.566
R6A12:00	0.458	BH9:00	0.530	AH9:00	0.533
R6A3:00	0.466	MW B	0.722	MH B	0.557
R6A6:00	0.433	MW A	0.724	MH A	0.555
R6A9:00	0.455	SN1 B	0.383	SN2 B	NA
SUMP	0.451	SN1 A	0.385	SN2 A	NA

**Service Life Shell Thickness Allowance DOT 180.509(g)**

10. A tank car found with a shell thickness below the required minimum after forming (for its specification) may continue in service if any reduction in the required minimum thickness is not more than that specified in the tables provided in the work instructions (identical with DOT specifications).

Accepted  Repaired  \* N/A

**Inspectors Signature:** TROY STEWART

\*Note: location and description of defects found and methods used to repair must be reported on form DOT 180

**Tank Car Qualification  
TCQ-1 Appendix B to DOT - SP 12095  
Inspection and Test Report**

Car Mark and Car Number: TILX 192469

Date: 03/24/2016

**Safety System Inspection per DOT 180.509(h)**

11. Must verify and inspect the integrity of the following:

- |                                      |  |                                   |                            |   |
|--------------------------------------|--|-----------------------------------|----------------------------|---|
| a) Thermal protection system         | Accepted <input checked="" type="checkbox"/> | Repaired <input type="checkbox"/> | * <input type="checkbox"/> | N/A <input type="checkbox"/>            |
| b) Tank head puncture resistance     | Accepted <input type="checkbox"/>            | Repaired <input type="checkbox"/> | * <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| c) Coupler Vertical restraint system | Accepted <input checked="" type="checkbox"/> | Repaired <input type="checkbox"/> | * <input type="checkbox"/> | N/A <input type="checkbox"/>            |
| d) Skid protection system            | Accepted <input checked="" type="checkbox"/> | Repaired <input type="checkbox"/> | * <input type="checkbox"/> | N/A <input type="checkbox"/>            |
| e) Protective housing                | Accepted <input checked="" type="checkbox"/> | Repaired <input type="checkbox"/> | * <input type="checkbox"/> | N/A <input type="checkbox"/>            |
| f) Insulation                        | Accepted <input checked="" type="checkbox"/> | Repaired <input type="checkbox"/> | * <input type="checkbox"/> | N/A <input type="checkbox"/>            |

12. Inspection of reclosing safety relief device:

Accepted  N/A

12.1 . Record safety valve tag retest location, o-ring type & date tested:

Pressure Relief Device Information
MMCSI
VITION A
04/01/2016

*D-3 Test Certificates also required*

13. Insepection of pressure relieve device (vent disc):

Accepted  N/A

**Inspectors Signature:** TROY STEWART

\* Note: location and description of defects found and methods used to repair must be reported on form DOT180

**Tank Car Qualification  
TCQ-1 Appendix B to DOT - SP 12095  
Inspection and Test Report**

Car Mark and Car Number: TILX 192469

Date: 03/24/2016

**Lining and Coating Inspection and Test per DOT 180.509(i)**

**All TILC / TRMI linings will be inspected at the time of a shopping event and the car has been cleaned.**

14. Inspect the lining or coating when applied to protect the tank shell from the lading.  
The owner of the lining or coating shall provide the periodic inspection interval, test technique, and acceptance criteria for the lining or coating to the person responsible for qualifying the lining and coating.

**As Received:**

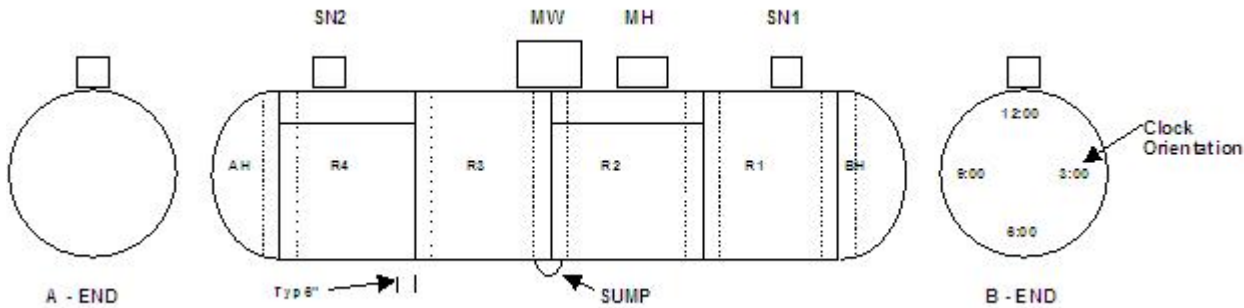
	Lining or Coating		N/A
	Accepted	Rejected *	
a) Surface cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Coating thickness	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Visual Inspection	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: NA

**As Received:**

Location	Thickness	Location	Thickness
R1 6:00	N/A	R5 6:00	N/A
R1 10:00	N/A	R5 10:00	N/A
R2 6:00	N/A	R6 6:00	N/A
R2 10:00	N/A	R6 10:00	N/A
R3 6:00	N/A	R7 6:00	NA
R3 10:00	N/A	R7 10:00	NA
R4 6:00	N/A	MW	N/A
R4 10:00	N/A	SUMP	N/A

**Measure and record the coating thickness at the locations listed above:**



**Leakage Pressure Test per DOT 180.509(j)**

15. Perform a leak pressure test on the tank per M-1002: Accepted  Repaired \* N/A

Leakage Test on the tank or service equipment to detect leakage from the following:

Leakage Pressure Test	Accepted	Repaired	N/A
a) manway covers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) cover plates	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) service equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) top fittings & closures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) bottom fittings & closures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

16. Perform interior heater system hydrostatic test at 200 psig minimum (no leaks allowed): Accepted  Repaired \* N/A

**Inspectors Signature:** TROY STEWART

\* Note: location and description of defects found and methods used to repair must be reported on form DOT180

**Tank Car Qualification  
TCQ-1 Appendix B to DOT - SP 12095  
Inspection and Test Report**

**FORM DOT 180**

Car Mark and Car Number: TILX 192469

Date: 03/24/2016

Constructed Tank Specification: 111A100W1

Stenciled Tank Specification: 111A100W1

Inspector's Signature: TROY STEWART

Location of inspection site:  
(include address and zip code)

TRANSCO RAILWAY PRODUCTS INC  
OELWEIN/TRAO  
IA, USA

17. The location and description of any defect found and the method used to repair the defect shall be listed below (reference the appropriate line number from the inspection form):

- 17.1 If repairs are required then, R-1 and R-2 reports may be required depending on the extent of the inspection and repairs performed.
- 17.2 Stub Sill, D-3 and TILC Rule 88B.2 forms are required when such work is performed



## Tank Car Qualification Report - Tank Qualification

### Car Details

Car Mark : <span style="border: 1px solid black; padding: 2px 20px;">TILX</span>	Car Number : <span style="border: 1px solid black; padding: 2px 20px;">193946</span>
Constructed Tank Specification : <span style="border: 1px solid black; padding: 2px 20px;">111A100W1</span>	Inspection Date : <span style="border: 1px solid black; padding: 2px 20px;">05/03/2017</span>
Stenciled Tank Specification : <span style="border: 1px solid black; padding: 2px 20px;">111A100W1</span>	Inspected By : <span style="border: 1px solid black; padding: 2px 20px;">ANDRES GONZALEZ</span>
Last Reported Contents : <span style="border: 1px solid black; padding: 2px 20px;">4909152 (ETHYL-ALC-ANHYD)</span>	SI Reference # : <span style="border: 1px solid black; padding: 2px 20px;">365139</span>
Inspection Site : <span style="border: 1px solid black; padding: 2px 20px;">TRINITY RAIL MAINTENANCE SERVICES -</span>	Station Stencil : <span style="border: 1px solid black; padding: 2px 20px;">TXXV</span>

### Structural Integrity Inspection - Internal Visual Inspection

Record visual inspection results for tank shell and heads, per the requirements of FQ-TK-G-018 (if repairs are made, list repair method)

a) Abrasion : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
b) Corrosion : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
c) Cracks : <span style="border: 1px solid black; padding: 2px 20px;">None</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
d) Dents : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
e) Distortion : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
f) Weld Defects : <span style="border: 1px solid black; padding: 2px 20px;">None</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>

### Structural Integrity Inspection - External Visual Inspection

Record visual inspection results for tank shell and heads, per the requirements of FQ-TK-G-018 (if repairs are made, list repair method)

a) Abrasion : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
b) Corrosion : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
c) Cracks : <span style="border: 1px solid black; padding: 2px 20px;">None</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
d) Dents : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>
e) Distortion : <span style="border: 1px solid black; padding: 2px 20px;">None or within accepted limits</span>	Comment : <span style="border-bottom: 1px solid black; display: block; width: 100%;"></span>

## Tank Car Qualification Report - Tank Qualification

f) Weld Defects :

Comment :

Record inspection results for the inboard body bolster web to draft sill attachment welds, per FQ-TK-G-018 & FQ-TK-G-019

Inspection Method :

A - End :

Comment :

B - End :

Comment :

Record inspection results for the inboard draft sill to rear sill pad attachment welds, per FQ-TK-G-018 & FQ-TK-G-019

Inspection Method :

A - End :

Comment :

B - End :

Comment :

### Ultrasonic Girth Weld Inspection

Record inspection results for tank shell butt welds within 2' of bottom longitudinal centerline, per the requirements of FQTKG020;

NOTE: Girth weld seam #1 is the B-end head to tank shell ring

a) Girth Seam # 1 (B - End) :

Comment :

b) Girth Seam # 2 :

Comment :

c) Girth Seam # 3 :

Comment :

d) Girth Seam # 4 :

Comment :

e) Girth Seam # 5 :

Comment :

f) Girth Seam # 6 :

Comment :

g) Girth Seam # 7 :

Comment :

h) Girth Seam # 8 (A - End) :

Comment :

### Safety System Inspection

Verify and inspect the integrity of the applicable Safety System components

a) Thermal protection system :

Comment :

b) Tank head puncture resistance :

Comment :

c) Coupler vertical restraint system :

Comment :

d) Skid protection system :

Comment :

e) Protective housing :

Comment :

f) Insulation :

Comment :

### Shipped Qualification Stencil

Tank Qualification stencil as shipped : Station :

Qualified :

Due :

## Tank Car Qualification Report - Tank Qualification

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Verify legible markings on the tank car :

Acceptable
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### Acceptable results of inspection and tests

This tank car conforms to the requirements set forth and has successfully passed the structural integrity inspection and test and shows no structural defect that may initiate cracks or propagate cracks and cause failure of the tank before the next inspection and test interval. All inspection and test were performed in accordance with the requirements of 49 CFR 180, Subpart F and the Trinity tank car qualification manual.

Visual Inspector Name : 

ANDRES GONZALEZ
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 Level : 

2
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 Date : 

05/03/2017
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Testing Technician Name : 

JOEL GONZALEZ
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 Level : 

2
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 Date : 

05/03/2017
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Recorded By : 

Sabrina Luevano
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 Comments : \_\_\_\_\_  
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