CERTIFICATE OF RAILCAR CLEANING

Car Reporting Marks & Number: SHPX 205631

Last Contained Commodity: Phosphoric Acid

Cleaning Facility:

Company: Frit Car, Inc

Address: P.O. Box 1340

City, State, Zip Code: Brewton, AL 36427

Contact Person: Plant Manager

Telephone: (251) 867-7752

Cleaning Procedure:

- ☐ Steam, Drained, and Cold Water Washed Tank Interior
- ☐ Cold Water Washed Tank Interior
- ☑ Cold Water Washed Tank Interior, Ejected Water & Dried Out
- ☐ Dug & Removed Excess Commodity
- ☐ Vented & Steamed Tank Interior
- ☑ Other

NO UNUSUAL ODOR AFTER WARM WATER RINSE.

Method: Multi-Gas Monitor & Visual

The signature below will serve to certify that the above cleaning has been performed and that the railcar is now free of any such previously contained commodity, except for possibly minor quantities of rust and/or atmospheric vapor condensate. **CAUTION:** *The interior atmospheric condition must be verified prior to proceeding with entry and/or work on the car.*

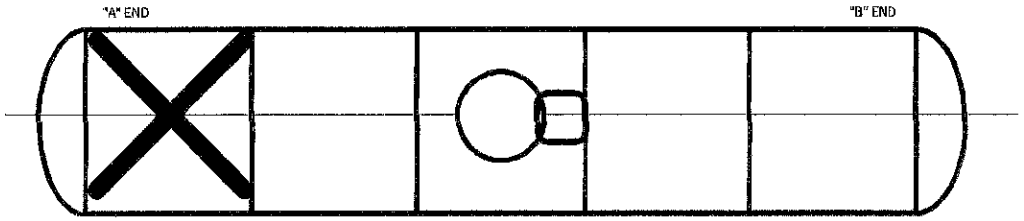
Signature: [signature] Date: 8-30-17

Report Form No. FCRF-18
Original Date: 06/05/01
Revision Date: 04/16/2009

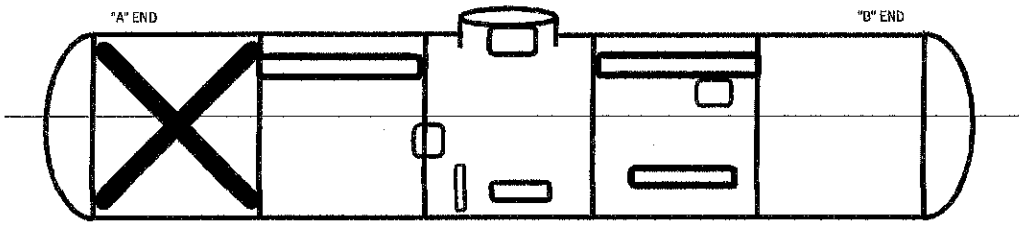
FRIT CAR

Interior Inspection Report

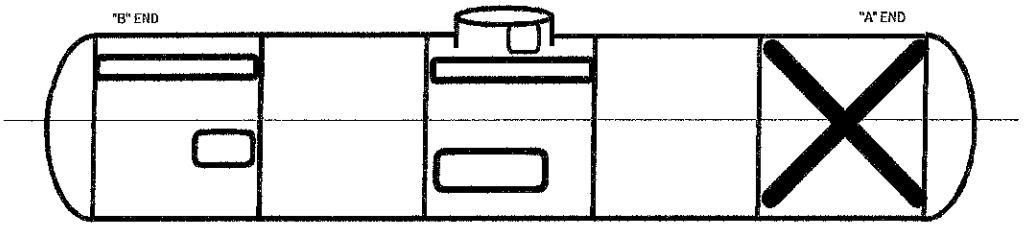
Car Reporting Marks & Number: SHPX 205631 Class of Tank: DOT111A100W-5



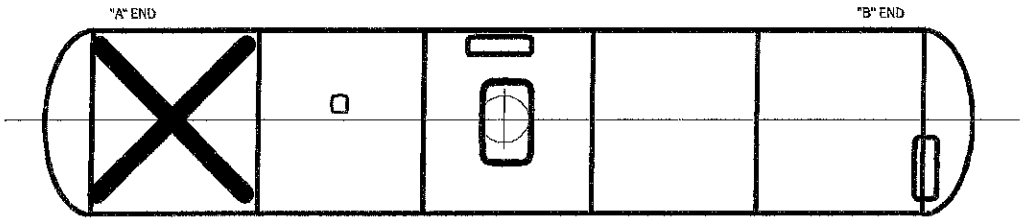
TOP



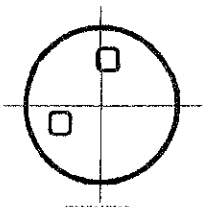
LEFT SIDE



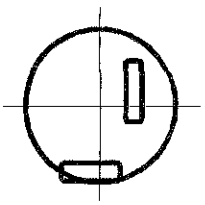
RIGHT SIDE



FLOOR



TANK HEAD "A" END



TANK HEAD "B" END

Comments:
Buff and grind tank interior
in prep for new rubber lining

Inspectors Initials: JS Level Certified: VT-II

Inspectors Signature: _____ Date: 10 / 23 / 17

Report Form No. FCRF – 17
Original Date: 06/05/01

Ultrasonic Thickness Testing Calibration Report

Car Reporting Marks & Number: SHPX 205631 Date: 10/23/17

Test Procedure: FCSOP-F005 Revision No. 02

Type of Equipment: DM5E 502163

Technique: Straight-Beam Contact Surface Condition: Acceptable

Probe Type: DA-501-EN Transducer Size: .475"

Frequency: ☐ 2.25 MHz ☒ 5 MHz

Calibration Block Identification: A18673 Calibration Date: 4/11/17

Calibration Block Temperature: 59 °F Due Date: 4/11/18

Couplant Type(s): Sonotech, Sonotrace30

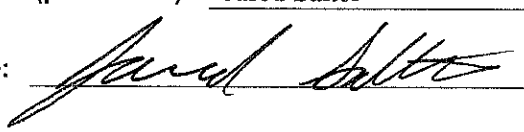
	Range of Thickness:			
	.250	.500	.750	1.000
Instrument Calibration Block Check Before:	X	X	X	X

Time of Calibration Check Before: 7:00 ☒ AM ☐ PM

	Range of Thickness:			
	.250	.500	.750	1.000
Instrument Calibration Block Check After:	X	X	X	X

Time of Calibration Check After: 9:00 ☒ AM ☐ PM

Technician: (print name) Jared Salter NDT Level: UTT-II

Signature:  Date: 10/23/17

Weld Inspection Report

1. **Car Reporting Mark and Number:** SHPX 205631
2. **Performed at:** Frit Car
3. **Procedure Used:** FCSOP-F001
4. **NDT Method:** VT
5. **Weld Identification:**
   a. J b. J c. _____ d. _____ e. _____ f. _____

(A)-Tank Shell-Interior (B)-Tank Shell-Exterior (C)-Tank Head-Interior (D)-Tank Head-Exterior (E)-Center Sill-Web (F)-Center Sill-Flange (G)- Center Sill-Both (H)-Bolster Pad (Tank Cradle) (J)-Tank Reinforcing Pad (inboard of Bolster) (M)-Brake Support (N)-Tank Bolster (O)-Other (*Explain in Item 17. Comments)* (P)-Weld-Bolster Pad to Tank (Q)-Stub Sill Web (R)-Stub Sill Top Flange (S)-Sub Sill Bottom Flange (T)-Head Brace (U)-Head Pad (V)-Top Longitudinal Centerline (W)-Bottom Longitudinal Centerline

Stub Sill Related Welds: (See Figs. R3.1 through R3.6 - EXHIBIT R-2 Report)

- Transverse Welds: (A1)-Pad to Tank, (B1)-Pad to Sill, (C1)-Brace to Sill, (D1)-Brace to Pad, (E1)-Other.
- Longitudinal Welds: (A2)-Pad to Tank, (B2)-Pad to Sill, (C2)-Brace to Sill, (D2)-Brace to Pad, (E2)-Other (BF)-Bottom Outlet Flange (MW)-Manway Nozzle (SN)-Safety Device Nozzle.

6. **Weld Inspection Location:** (i.e. B, BR, BL, A, AR, AL, C, CT, CB, etc.)
   a. A b. B c. _____ d. _____ e. _____ f. _____
7. **Welder ID:** (Clock No.)
   a. 6172 b. 6172 c. _____ d. _____ e. _____ f. _____
8. **Welding Procedure Used:** (I.e. FCWP-001, FCWP-002, FCWP-003, etc)
   a. FCWP-009 b. FCWP-009 c. _____ d. _____ e. _____ f. _____
9. **Preheat Temperature:** (Degrees Fahrenheit)
   a. 50 b. 50 c. _____ d. _____ e. _____ f. _____
10. **Inter-Pass Temperature:** (Average in Degrees Fahrenheit)
    a. 325 b. 325 c. _____ d. _____ e. _____ f. _____
11. **Actual Filler Metal Used:** (I.e. E-7018, E-8018, E71T1, etc)
    a. E71T1 b. E71T1 c. _____ d. _____ e. _____ f. _____
12. **Type of Weld:** (I.e. fillet, butt, etc)
    a. Fillet b. Fillet c. _____ d. _____ e. _____ f. _____
13. **Weld Size Applied:** (I.e. fillet welds ¼", ½" ¾", etc) Note: for butt welds show weld reinforcement height)
    a. 3/8 b. 3/8 c. _____ d. _____ e. _____ f. _____
14. **Welding Machine Used:** (Gage Number)
    a. Kd448216 b. Kd448216 c. _____ d. _____ e. _____ f. _____
15. **Weld Accepted or Rejected:** (A= Accept R= Reject)
    a. _____ b. _____ c. _____ d. _____ e. _____ f. _____

15.1 If Weld Rejected Show Defect: (crack, undercut, under-fill, overlap, etc) - Use comments section to describe
    a. _____ b. _____ c. _____ d. _____ e. _____ f. _____

16. **Re-Inspection Weld Accepted or Rejected:** (A= Accept R= Reject)
    a. A b. A c. _____ d. _____ e. _____ f. _____
17. **Post Weld Heat Treat Required:** (Yes or No)
    a. NO b. NO c. _____ d. _____ e. _____ f. _____
18. **NDT Required:** (I.e. MT, UT, UTT, PT, etc)
    a. PT, VT b. PT, VT c. _____ d. _____ e. _____ f. _____
19. **Comments:**

20. **Inspected by:** _____ **Level:** II **Date:** 10-28-17

Approved By: A. Lisabelle – QA Manager
Date: 04/29/2014

Report Form: FCRF-199
Original Date: 12/21/2009
Revision Date: 04/29/2014

Liquid Penetrant Inspection Report

Car Reporting Marks and Number: SHPX-205631 Stencil Class: DOT111A100W·5

Facility Performing Inspection: Fritcar NDT Procedure No: FC50P-02-03 Procedure Rev. Date: 3-18-17

Temperature Measuring Device ID: IRT-04 Type: ☐ Analog ☑ IR Range: 0T0600 Cal. Due Date: 10-13-18

Surface Temp: 80° °F Penetrant Temp: 66° °F

Penetrant Mfg.: Dyna-Flux, Inc Penetrant Designation: Crack Check P-HF Type of Penetrant Used: ☑ Solvent Removable

Developer Mfg.: Dyna-Flux Inc. Developer Designation: Crack Check DNF

Cleaner Mfg.(if applicable): Dyna-Flux Inc. Cleaner Designation: Crack Check CNF

Surface Preparation: (check all that apply)

☑ Solvent Cleaning ☐ Wire Brush ☐ Grind ☐ Blasting ☐ Other (describe) _____

Surface Preparation Acceptable: ☑

Notes:

1. For Weld Component / Identification see AAR MSRP, Appendix R
2. A New Report must be filled out for each Liquid Penetrant Exam (i.e. Initial, After Removal and After Repair)
3. * Photos MUST be taken of the Initial, After Removal and After Repair

Exam Category: (Check one only) ☑ Initial ☐ After Removal ☐ After Repair

Location: (i.e. AR, BR, etc.)	Weld Component / Identification: (i.e. A1, B1,C1, D1, etc. / description)	PT Exam: Accept	PT Exam: *Reject	Remarks: (list length, depth, etc. as applicable)
AR	Tank Pad @ Sill T—	☐	☑	2" Indication
AL	Tank Pad @ Sill T—	☐	☑	2" Indication
BR	Tank Pad @ Sill T—	☐	☑	2" Indication
BL	Tank Pad @ Sill T—	☐	☑	2" Indication
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	

Notes/Sketch:

Post Examination Cleaning Acceptable: ☑

Technician: (print name) Edward A. H— NDT Certification Level: II

Signature: _____ Date: 10-25-17

Approved By: A. Lisabelle – QA Manager
Date: 03/11/2016

Frit Car, Inc.- Brewton, AL – Bridgeton, NC

Report Form No: FCRF- 36
Original Date: 06/25/2001
Revision Date: 03/11/2016

Liquid Penetrant Inspection Report

Car Reporting Marks and Number: SHPX 205631 **Stencil Class:** DOT111A100W-5

Facility Performing Inspection: Brewton, AL **NDT Procedure No:** FCSOP-F002 **Procedure Rev. Date:** 3/18/16

Temperature Measuring Device ID: Fluke 66IR S/N IRT-O1 **Type:** ☐ Analog ☒ IR **Range:** -25to+ 1100 **Cal. Due Date:** 11/3/17

Surface Temp: 69 °F **Penetrant Temp:** 70 °F

Penetrant Mfg.: Dyna-Flux, Inc **Penetrant Designation:** Crack Check P-HF **Type of Penetrant Used:** ☒ Solvent Removable

Developer Mfg.: Dyna-Flux Inc. **Developer Designation:** Crack Check DNF

Cleaner Mfg.(if applicable): Dyna-Flux Inc. **Cleaner Designation:** Crack Check CNF

Surface Preparation: (check all that apply)

☒ Solvent Cleaning ☒ Wire Brush ☐ Grind ☐ Blasting ☐ Other (describe) _____

Surface Preparation Acceptable: ☒

Notes:

1. For Weld Component / Identification see AAR MSRP, Appendix R
2. A New Report must be filled out for each Liquid Penetrant Exam (i.e. Initial, After Removal and After Repair)
3. * **Photos MUST** be taken of the Initial, After Removal and After Repair

Exam Category: (Check one only) ☐ Initial ☒ After Removal ☐ After Repair

Location: (i.e. AR, BR, etc.)	**Weld Component / Identification:** (i.e. A1, B1,C1, D1, etc. / description)	**PT Exam:** Accept	*Reject	**Remarks:** (list length, depth, etc. as applicable)
AL	Tank Pad @ sill term	☑	☐	3/16" depth
AR	Tank Pad @ sill term	☑	☐	3/16" depth
BL	Tank Pad @ sill term	☑	☐	3/16 depth
BR	Tank Pad @ sill term	☑	☐	3/16" depth
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	

Notes/Sketch:

Post Examination Cleaning Acceptable: ☒

Technician: (print name) Caleb Richburg NDT Certification Level: PT-II

Signature: Caleb Richburg Date: 10/25/17

Approved By: A. Lisabelle – QA Manager
Date: 03/11/2016

Frit Car, Inc.- Brewton, AL – Bridgeton, NC

Report Form No: FCRF- 36
Original Date: 06/25/2001
Revision Date: 03/11/2016

ALLTRANSTEK
knowledge to move ahead

Bubble Leak Test Form

Form: FM-234-1
Revision: B
Page: 1 of 1

Car Reporting Mark and Number:	Inspector (print name):	Inspector Level:
SHPX 205631	Joshua Williams	II
Reporting Facility:	**Facility Station Stencil:**	**Compartment #** 1 of 1
FRIT Car Inc	FRAC	

Test Procedure Number: **FM - 234**

Test Procedure Revision Level: _____

Temperature Measuring Device	
Identification Number:	FRAC IRT 05
Range:	0°F - 600°F
Calibration Due Date:	05-17-2018
Type (check one):	☐ Contact ☑ Non-contact

Pressure Gage	
Identification Number:	TG 87
Range:	0°-100° P.S.I
Calibration Due Date:	01-30-2018

Leak Detector Manufacturer:	SHERLOCK	Gas or Medium:	SHOP AIR		
Leak Detector Temp. Range:	32°F-150°F	Test Pressure:	30 P.S.I	☑ psig.	☐ kPag
Surface Preparation Accepted:	☑ Yes ☐ No (Rejected)	Surface Temperature:	71°F	☑ °F.	☐ °C.

Is this a retest? (check one): ☐ Yes ☑ No

Component(s) Tested: Manway Lid, DUAL Housing plate, Safety Valve, 1"S.S. D.F. Vent Valve, 3"S.S. D.F. Load Valve

Examination Accepted? (check one) : ☑ Yes ☐ No (Rejected)

If rejected, list details: _____

Inspector Signature:	Date:
Joshua Williams	12-05-17

MIDLAND™
PART OF OPW FLUID TRANSFER GROUP
A DOVER COMPANY

P.O. BOX 226 * Skokie, IL 60076-0226 * Phone(847)677-0333 * FAX(847)677-0138

Certificate of Pressure Relief Valve Test

Customer PO # 87719	Midland Order No. 51138847

Valve Model No. A-1779-P-MO-EPFG

Serial No. ANM645

Was tested **Oct-17** by Midland Manufacturing Corp., Skokie, Illinois. The valve was set at 75 PSIG, opened at 76.4 PSIG

and was vapor tight at: **71** PSIG

YOGESH K.
Assembled By

YOGESH K.
Valve Tester

Signature

*Valves Equipped With Rupture Discs Will Open at +0 to -15% of the Valve Rating

****Optional Information Below****

To be completed by Mfr/Repair Facility

1. Car initial & Mark SHPX 205631
2. Valve Serial Number ANM645
3. Date Installed 12-04-2017

Rev.013117

Packing Slip Copy