



Rubber Lining Atmospheric Information Report

CHECK ONE ONLY →→ Car Interior Includes Nozzles Components

Car Reporting Marks & Number: SHPX 205631

Blasted Date: 11-24-17

Cementing:	Batch No:	Date:
1 st Coat:	<u>0011724098</u>	<u>11-24-17</u>
2 nd Coat:	<u>0011619228</u>	<u>11-27-17</u>
3 rd Coat:	<u>71053(103)</u>	<u>11-27-17</u>
Rubber Lining Date:	<u>11-28-17</u>	
Spark Test Date:	<u>12-4-17</u>	
Cure Date:	<u>11-30-17</u>	Time: <u>10:57</u> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Method of Cure:	<input checked="" type="checkbox"/> Steam <input type="checkbox"/> Chemical	
Cure Hours:	<u>7</u>	
Temperature Degrees °F:	<u>260</u>	

Notes:

- No primer, intermediate, cement, or rubber panel shall be installed when;
- There is moisture on the surface
 - Dust is present, which can contaminate the surface
 - Dirt or other detrimental materials have re-contaminated the surface
 - The surface temperature is less than 5 degrees above the dew point
 - The surface temperature is below 60 deg °F, or above 90 deg °F
 - The humidity is greater than 90%

Cementing Atmospheric Conditions:	Lining Atmospheric Conditions:
Metal Temperature: <u>75</u> °F	Metal Temperature: <u>71</u> °F
Gage ID: <u>FRALIRT-04</u> Gage Due Date: <u>3-30-18</u>	Gage ID: <u>FRALIRT-04</u> Gage Due Date: <u>3-30-18</u>
Air Temperature: <u>77</u> °F	Air Temperature: <u>73</u> °F
Relative Humidity: <u>43</u> °F	Relative Humidity: <u>63</u> °F
DewPoint: <u>33</u> °F	DewPoint: <u>54</u> °F
Gage ID: <u>THFRAL-02</u> Gage Due Date: <u>7-11-18</u>	Gage ID: <u>TH-FRAL-02</u> Gage Due Date: <u>7-11-18</u>
Tested By: <u>TERRY PATE</u>	Tested By: <u>TERRY PATE</u>

Comments: _____

Work as listed on this form has been completed and performed to meet industry and regulatory standards and requirements by information provided and available to me, to the best of my knowledge.

Inspector Signature: *Terry Pate* Initials: TS Date: 12-4-17

Approved By: A.L.

Frit Car, Inc; Brewton, AL – Bridgeton, NC

Report Form FCRF – 32
Original Date: 06/25/01
Revision Date: 05/24/2012



Additional Rubber Lining Atmospheric Information Report

CHECK ONE ONLY →→ Car Interior Includes Nozzles Components

Car Reporting Marks & Number: SHPX 205631

Notes: No primer, intermediate, cement, or rubber panel shall be installed when:

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- Dust is present, which can contaminate the surface
- Dirt or other detrimental materials have re-contaminated the surface
- The surface temperature is less than 5 degrees above the dew point
- The surface temperature is below 60 deg °F, or above 90 deg °F
- The humidity is greater than 90%

<p>Cementing Atmospheric Conditions:</p> <p>Metal Temperature: <u>70</u> °F</p> <p>Gage ID: <u>FRALIRT-04</u> Gage Due Date: <u>3-30-18</u></p> <p>Air Temperature: <u>73</u> °F</p> <p>Relative Humidity: <u>61</u> °F</p> <p>DewPoint: <u>52</u> °F</p> <p>Gage ID: <u>THFRAL-02</u> Gage Due Date: <u>7-11-18</u></p> <p>Tested By: <u>TERRY PATE</u></p>	<p>Lining Atmospheric Conditions:</p> <p>Metal Temperature: <u>71</u> °F</p> <p>Gage ID: <u>FRALIRT-04</u> Gage Due Date: <u>3-30-18</u></p> <p>Air Temperature: <u>74</u> °F</p> <p>Relative Humidity: <u>57</u> °F</p> <p>DewPoint: <u>50</u> °F</p> <p>Gage ID: <u>THFRAL-02</u> Gage Due Date: <u>7-11-18</u></p> <p>Tested By: <u>TERRY PATE</u></p>
<p>Cementing Atmospheric Conditions:</p> <p>Metal Temperature: <u>71</u> °F</p> <p>Gage ID: <u>FRALIRT-04</u> Gage Due Date: <u>3-30-18</u></p> <p>Air Temperature: <u>74</u> °F</p> <p>Relative Humidity: <u>59</u> °F</p> <p>DewPoint: <u>50</u> °F</p> <p>Gage ID: <u>THFRAL-02</u> Gage Due Date: <u>7-11-18</u></p> <p>Tested By: <u>TERRY PATE</u></p>	<p>Lining Atmospheric Conditions:</p> <p>Metal Temperature: _____ °F</p> <p>Gage ID: _____ Gage Due Date: _____</p> <p>Air Temperature: _____ °F</p> <p>Relative Humidity: _____ °F</p> <p>DewPoint: _____ °F</p> <p>Gage ID: _____ Gage Due Date: _____</p> <p>Tested By: _____</p>

Comments: _____

Work as listed on this form has been completed and performed to meet industry and regulatory standards and requirements by information provided and available to me, to the best of my knowledge.

Inspector Signature: *Terry Pate* Initials: TS Date: 12-4-17



Rubber Lining Visual Inspection Report

CHECK ONE ONLY →→ Repair Complete Reline Spark Test Only

Car Reporting Marks & Number: SHPX 205631

Lining Mfg & Type: BLAIR/VE-524 Procedure Number(s): BLAIR SECTION 15

All Defects Shall Be Marked By Circling with a Crayon Marker

1.	Reviewed Applicable CUSTOMER SPECS? (Procedures)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2.	Is Car CLEAN and DRY?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3.	Is Car Free of SURFACE CRACKS? <i>If NO box checked, answer a., b., and c. below</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
a.	Depth of Surface Cracks	<input type="checkbox"/> 25%	<input type="checkbox"/> 50% <input type="checkbox"/> 75%
b.	Type of Surface Cracks:	<input type="checkbox"/> Linear	<input type="checkbox"/> Spider
c.	Location of Cracks:	<input type="checkbox"/> Vapor Space	<input type="checkbox"/> Liquid <input type="checkbox"/> Head <input type="checkbox"/> Throughout
4.	Does Car have EXISTING SURGE PAD?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5.	Does Car have EXISTING SPLASH PAD?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6.	Does Car have FULL VAPOR PAD?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
7.	Is SUMP Condition OK	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8.	Is Car free of WATER SPOTS?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
9.	MANWAY COVER PLATE and COMPONENTS Acceptable?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
10.	Is Car free of FOOTPRINTS?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
11.	Is Car free of FEATHERED SKIVES (Seams)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
12.	Car free of LOOSE SKIVES (Seams)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
13.	All SKIVES (Seams) Acceptable?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
14.	All LAPS Acceptable?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
15.	All CAPS STRIPS Acceptable?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
16.	Car free of AIR BUBBLES (Blisters)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
17.	SPARK TEST Report Verified for Acceptance?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
18.	DUROMETER Readings Verified Against Report? (24 hrs After Cure)	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
19.	OVERALL APPEARANCE Acceptable?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
20.	Car Ready to RETURN TO SERVICE?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

NOTE: Any line items checked "No" will require Comments Section to be completed.

Comments: _____

Inspectors Initials: TS
Inspectors Signature: *[Signature]*

Level Certified: II
Date: 12-4-17



Rubber Lining Spark Test and Durometer Report

CHECK ONE ONLY →→ Repair Complete Reline Spark Test Only

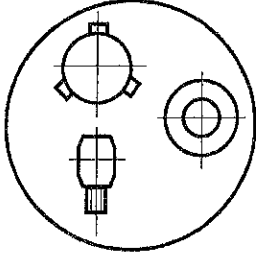
Car Reporting Marks & Number: SHPX 205631 Last Contained: N/A Lined By: FRAL

Lining Mfg & Type: BLAIR/VE-524 Durometer ID: 156499 Due Date: 6-13-18

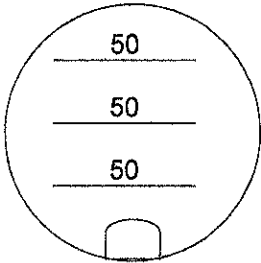
Procedure Number(s): BLAIR SECTION 15 Spark Tester ID: 7283

- | | | |
|--|---|---------------------------------------|
| 1) Map location of defects for repairs | 2) Map discontinuities found by spark testing | 3) Record durometer hardness readings |
|--|---|---------------------------------------|

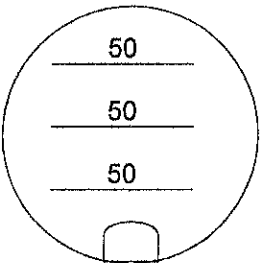
ACID PLATE



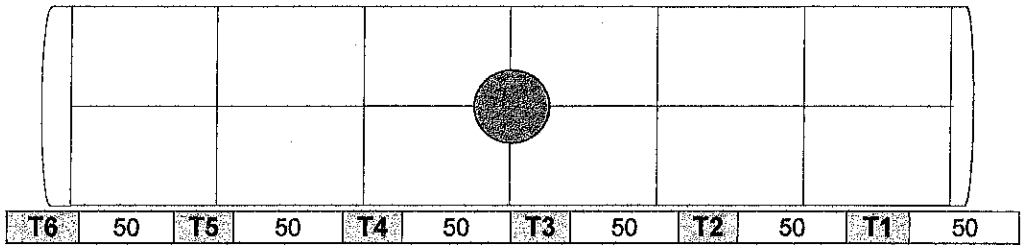
B-END HEAD



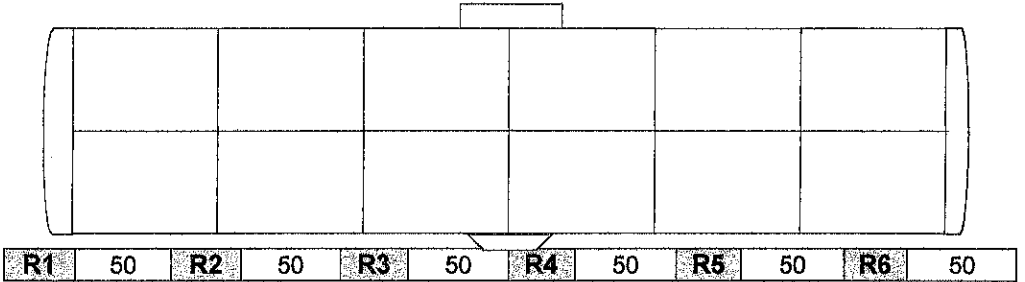
A-END HEAD



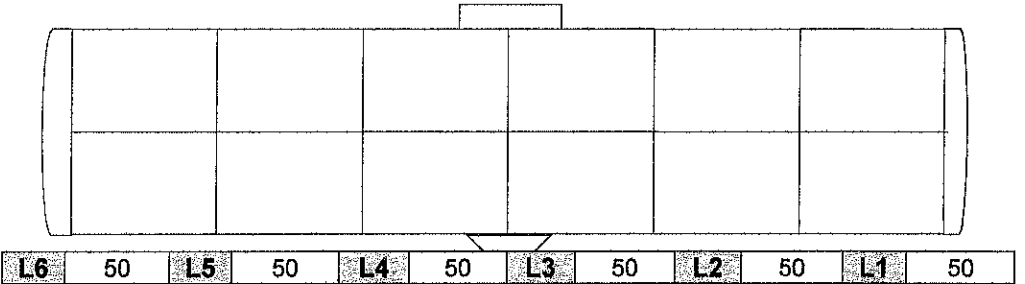
A-End TOP SIDE B-End



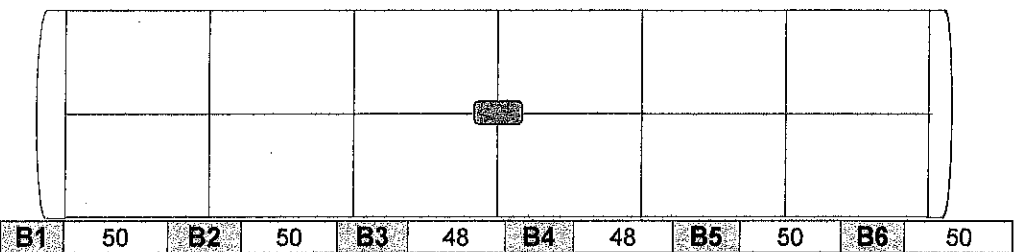
B-End RIGHT SIDE A-End



A-End LEFT SIDE B-End



B-End BOTTOM SIDE A-End



COMMENTS: _____

Spark Test Results: PASS FAIL

Recommendation: REPAIR RELINE RETURN TO SERVICE

Inspector Initials: TS Level: li Inspector Signature: *Frit* Date: 12-4-17



Rubber Lining Patches Report

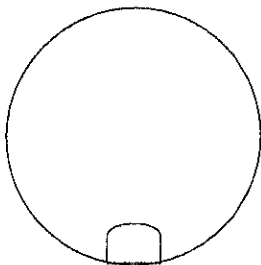
CHECK ONE ONLY →→ Previous Patches Repair Complete Reline

Car Reporting Marks & Number: SHPX 205631 Last Contained: N/A Lined By: FRAL

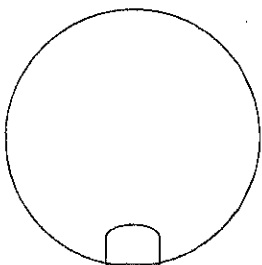
Lining Mfg & Type: BLAIR/VE-524

1) Map location of ALL Patches in Car	2) Record Total Number of Patches
---------------------------------------	-----------------------------------

B-END HEAD



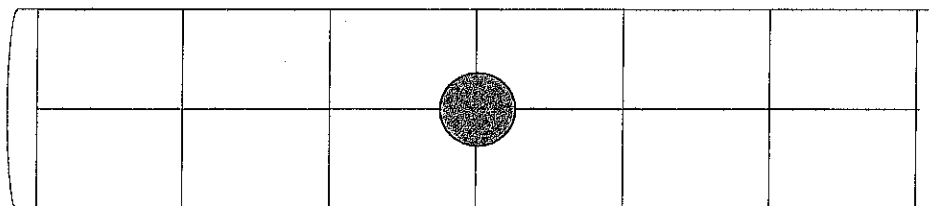
A-END HEAD



A-End

TOP SIDE

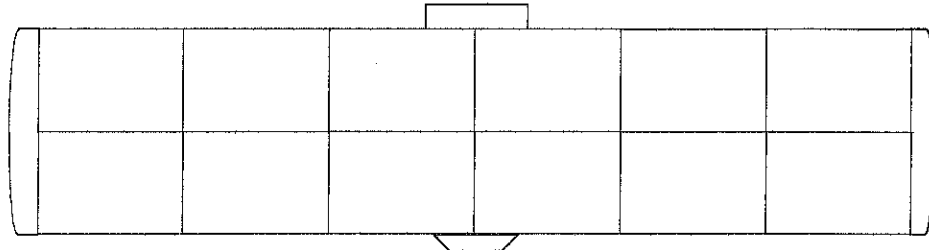
B-End



B-End

RIGHT SIDE

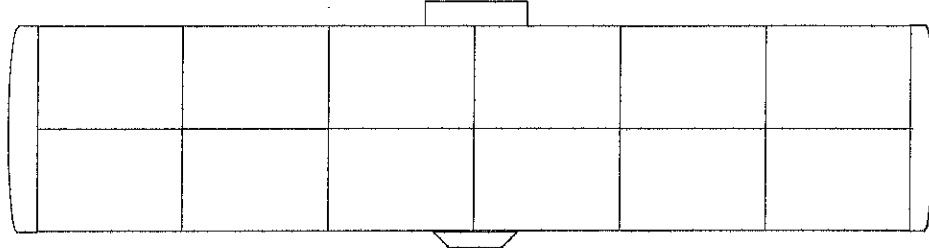
A-End



A-End

LEFT SIDE

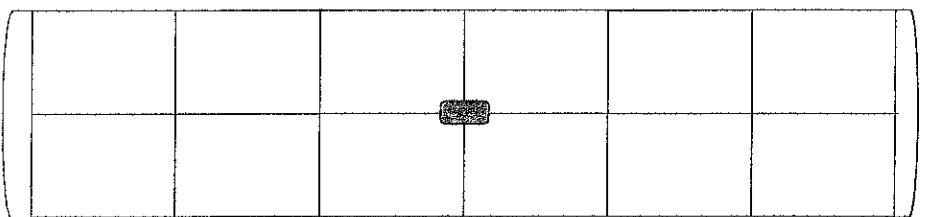
B-End



B-End

BOTTOM SIDE

A-End



COMMENTS: _____

Total Number of Patches: 0 Recommendation: REPAIR RELINE RETURN TO SERVICE

Inspector Initials: TS Level: II Inspector Signature: *Frit* Date: 12-4-17



Quality Assurance Certificate

It is hereby certified that the Rubber Lining applied to SHPX 205631
has been accomplished in accord with the provisions of MSRP, C-III, Appendix L, DOT 179.201-3 and has
been inspected and is in strict accordance with the specification cited below:

Tank Integrity Qualification Date Prior to Lining: 10-25-17

Minimum Thickness of Lining: 3/16"

Lining Specification Number: VE-524

Manufacturer of Lining: BLAIR

Date Lining Installed: 11-28-17

Date Spark Tested: 12-4-17

Durometer Readings:

Vapor Space: 50 Liquid Area: 48-50 Head: 50

Durometer Serial No: 156499

Batch #s: IN FOLDER

Lot #s: IN FOLDER

Method of Cure:

Cure Time: 7 Hours @ Temperature: 260 (Degrees °F)

Lining Applicator:

Name of Company and Address: FRIT CAR, AL.

Title: RUBBER LINING LEADMAN

Printed Name: TRENT SMITH

Signature: *Trent Smith*

Date: 12-4-17



Interior Blast Instruction Sheet

Car Reporting Marks & Number: SHPX 205631 Date: 11-24-17

Last Contents: _____ Hours Allowed: _____

Blaster(s) Assigned: mark Hours Worked: _____

Worked to be Performed:

- Remove Interior Coating
- Blast Interior for Inspection
- Blast Interior for New Coating
- Blast Interior for Rubber Lining

Degree of Surface Preparation:

- SSPC-SP5 - White Metal Blast
- SSPC-SP6 - Commercial Blast
- SSPC-SP7 - Brush-Off Blast
- SSPC-SP10 - Near White Blast

Blast Profile Stamp/Sticker:

(Min 2.0/Max 4.0)

Type of Blast:

- Sand
- Grit

Blast Check:

- Check Grit
- Check Air
- Check Blast Mil Gage
- Check Blast Profile
(one reading per tank ring)

Comments: _____

Work as listed on this form has been completed and performed to meet industry and regulatory standards and requirements by information provided and available to me, to the best of my knowledge.

Inspector Signature: [Signature]
(Paint and Blast Inspector)

Initials: SA

Date: 11-24-17

Inspector Signature: [Signature]
(as applicable)

Initials: TS

Date: 11-24-17



Rubber Car Cement Application Report

Car Reporting Marks and Number: SHEX 205631

Procedure Used: BLAIR ENDURABOND

1st Coat	<i>CONTROL DEVICE VALVE MUST BE OPEN (By Pass)</i>	
Brand Name: <u>ENDURA</u>	Type Number: <u>1</u>	Batch Number: <u>001124098</u>
Start Time: <u>2:00</u>	Finish Time: <u>2:45</u>	
Applicator: <u>Travis Hastings</u>	Initials: <u>T.H.</u>	Date: <u>11-24-17</u>

2nd Coat	<i>CONTROL DEVICE VALVE MUST BE CLOSED</i>	
Brand Name: <u>ENDURA</u>	Type Number: <u>2</u>	Batch Number: <u>0011619228</u>
Start Time: <u>6:30</u>	Finish Time: <u>7:20</u>	
Applicator: <u>C.J.</u>	Initials: <u>CJ</u>	Date: <u>11-27-17</u>

3rd Coat	<i>CONTROL DEVICE VALVE MUST BE CLOSED</i>	
Brand Name: <u>ENDURA</u>	Type Number: <u>103</u>	Batch Number: <u>103-71053</u>
Start Time: <u>9:30</u>	Finish Time: <u>10:30</u>	
Applicator: <u>TRAVIS HASTINGS</u>	Initials: <u>TH.</u>	Date: <u>11-27-17</u>

Comments:

For material usage see Material Usage Sheet (Report Form FCRF-10)

Cement application as listed on this sheet has been completed and performed to meet industry and regulatory standards and requirements by information provided and available to me, to the best of my knowledge.

Supervisor: [Signature] Date: 12-4-17

