

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 199335
 3. Reported by: TRINITY RAIL #25 4. Date work performed: 12/13/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref# : 409428
 6. Report of: Tank Repairs: Alterations
 7. Built date: 05/01/2007 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L066070 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

NA

B) Procedure and defect:

NA

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
 Apply disengageable BOV handle
 Change protective housing to 1/2" thick, bolt-on
 Apply Kelso JS75XHS safety valve, AAR #PRD 079004
 Increase gross rail load to 286,000 lbs
 New Tare weight: 79400 lbs

16. Pertinent approved drawings:

DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A. <u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B. <u>Fittings Arrangement</u>	<u>F-020-2011 (see notes)</u>	<u>M156094</u>
C. <u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D. <u>BOV Arrangement</u>	<u>V-014-80252-02(see notes)</u>	<u>C156108</u>
E. _____	_____	_____
F. _____	_____	_____

17. Revisions and Notes:

Fittings drawings F-020-2011 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
 BOV drawing V-014-80252-02 is the same as V-014-80116 except the attachment of the brackets is welded instead of bolted.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 01/04/2019

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Melissa Pilot

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 199040
 3. Reported by: TRINITY RAIL #25 4. Date work performed: 12/17/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref#: 409885
 6. Report of: Tank Repairs: Alterations
 7. Built date: 05/01/2007 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L066070 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

NA

B) Procedure and defect:

NA

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
 Apply disengageable BOV handle
 Change protective housing to 1/2" thick, bolt-on
 Apply Kelso JS75XHS safety valve, AAR #PRD 079004
 Increase gross rail load to 286,000 lbs
 New Tare weight: 78900 lbs

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B.	<u>Fittings Arrangement</u>	<u>F-020-2011 (see notes)</u>	<u>M156094</u>
C.	<u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D.	<u>BOV Arrangement</u>	<u>V-014-80252-02</u>	<u>C156108</u>
E.	<u></u>	<u></u>	<u></u>
F.	<u></u>	<u></u>	<u></u>

17. Revisions and Notes:

Fittings drawings F-020-2011 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
 BOV drawing V-014-80252-02 is the same as V-014-80116 except the attachment of the brackets is welded instead of bolted.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 01/03/2019

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Melissa Pilot

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

- 1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 191488
- 3. Reported by: TRINITYRAIL #25 4. Date work performed: 05/22/2018
- 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref#: 392923
- 6. Report of: Tank Repairs: Alterations
- 7. Built date: 08/01/2006 8. Built By: TRIN - Trinity
- 9. Original AAR Certificate No: L056007 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
- 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
- 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

- A) Nature and location of defect:

NA
- B) Procedure and defect:

NA

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

- Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
- Apply disengageable BOV handle
- Change protective housing to 1/2" thick, bolt-on
- Apply Kelso JS75XHS safety valve, AAR #PRD 079004
- Increase gross rail load to 286,000 lbs
- New Tare weight: 80400 lbs

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B.	<u>Fittings Arrangement</u>	<u>F-020-2015 (see notes)</u>	<u>M156094</u>
C.	<u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D.	<u>BOV Arrangement</u>	<u>V-014-80279</u>	<u>C156108</u>
E.			
F.			

17. Revisions and Notes:

- Fittings drawings F-020-2015 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
- BOV drawing V-014-80279 is the same as V-014-80116 except the attachment of the brackets is welded instead of bolted.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX

Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance

Management Representative _____ Date : 06/19/2018
(Signature): _____

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Sabrina Luevano

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 198946
 3. Reported by: Jonna Rawlings 4. Date work performed: 07/09/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref# : 395314
 6. Report of: Tank Repairs: Alterations
 7. Built date: 10/01/2007 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L066070 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

- A) Nature and location of defect:
NA
- B) Procedure and defect:
NA

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
 Apply disengageable BOV handle
 Change protective housing to 1/2" thick, bolt-on
 Apply Kelso JS75XHS safety valve, AAR #PRD 079004
 Increase gross rail load to 286,000 lbs
 New Tare weight: 79200 lbs

16. Pertinent approved drawings:

DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A. <u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B. <u>Fittings Arrangement</u>	<u>F-020-2011 (see notes)</u>	<u>M156094</u>
C. <u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D. <u>BOV Arrangement</u>	<u>V-014-80058-07 (Jamesbury)</u>	<u>M156163 (see notes)</u>
E. _____	_____	_____
F. _____	_____	_____

17. Revisions and Notes:

Fittings drawings F-020-2011 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
 BOV drawing V-014-80058-07 is the same as V-014-80058-01 except for the gasket materials.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 08/01/2018

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Jonna Rawlings

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 194329
3. Reported by: Jonna Rawlings 4. Date work performed: 05/04/2018
5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref#: 390719
6. Report of: Tank Repairs: Alterations
7. Built date: 11/01/2007 8. Built By: TRIN - Trinity
9. Original AAR Certificate No: L076034A 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
11. Constructed car spec: 111A100W1 12. Car spec (after this work): DOT 111A100W1
13. Stenciled spec (after this work): DOT 117R100W
14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)
A) Nature and location of defect:
N/A
B) Procedure and defect:
N/A

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:
APPLY 11 GAGE JACKET, 0.5" JACKET HEAD AND 0.5" THICK THERMAL PROTECTION (CERAMIC FIBER BLANKET)
APPLY DISENGAGEABLE BOV HANDLE
CHANGE PROTECTIVE HOUSING TO 1/2" THICK, BOLT-ON
APPLY KELSO JS75XHS SAFETY VALVE, AAR #PRD 079004
INCREASE GROSS RAIL LOAD TO 286,000 LBS
NEW TARE WEIGHT: 79600 LBS

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>GENERAL ARRANGEMENT</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B.	<u>FITTINGS ARRANGEMENT</u>	<u>F-020-2008-01 (SEE NOTES)</u>	<u>M156094</u>
C.	<u>JACKET SUPPORT ASSY.</u>	<u>J-012-80010</u>	<u>M156094</u>
D.	<u>BOV ARRANGEMENT</u>	<u>V-014-80252-02 (5RET3)</u>	<u>C156108</u>
E.	_____	_____	_____
F.	_____	_____	_____

17. Revisions and Notes:

FITTINGS DRAWINGS F-020-2008 IS THE SAME AS F-020-2002 EXCEPT FOR THE GRADE OF STEEL OF THE PROTECTIVE HOUSING AND THE SPECIFIC VALVES USED.
BOV DRAWING V-014-80252-02 IS THE SAME AS V-014-80116 EXCEPT FOR THE ATTACHMENT OF THE BRACKETS IS WELDED INSTEAD OF BOLTED.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
Date : 06/21/2018

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Management Representative
(Signature):

Recorded By:

Jonna Rawlings

Comments:

DW

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 351873
 3. Reported by: David 4. Date work performed: 10/28/2015
 5. Work Performed at: TRINITY RAIL SERVICES SI Ref#: 319131
 6. Report of: Tank Repairs: Alterations
 7. Built date: 11/23/2013 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L126114 10. Commodity: 4910165(PETRO OIL CRUDE)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

B) Procedure and defect:

AAR NO. M156141

- APPLY SALCO DISENGAGEABLE BOV HANDLE

- APPLY 11 GAUGE JACKET, 0.5" JACKET HEAD & 0.5" THERMAL PROTECTION

- UPGRADE AND RE-STENCIL LOAD LMT TO REFLECT 286 GRL

OLD LT WT- 74500

NEW LT WT- 87800

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>Fitting Arrangement</u>	<u>F-020-2002</u>	
B.	<u>General Arrangement</u>	<u>M-024-31808RP</u>	
C.	<u>BOV Arrangement Jamesbury</u>	<u>V-014-80058-01</u>	
D.	<u>BOV Arrangement Midland</u>	<u>V-014-80092-01</u>	
E.			
F.			

17. Revisions and Notes:

n/a

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name _____ Location (City/State) _____
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : _____
 Recorded By: _____ Comments: _____

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 198738
 3. Reported by: TRINITYRAIL #25 4. Date work performed: 01/04/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref#: 383794
 6. Report of: Tank Repairs: Alterations
 7. Built date: 06/01/2007 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L066070 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): DOT 111A100W1
 13. Stenciled spec (after this work): DOT 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)
 A) Nature and location of defect:
 N/A
 B) Procedure and defect:
 N/A

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:
 Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
 Apply disengageable BOV handle
 Change protective housing to 1/2" thick, bolt-on
 Apply Kelso JS75XHS safety valve, AAR #PRD 079004
 Increase gross rail load to 286,000 lbs
 New Tare weight: 78500 lbs

16. Pertinent approved drawings:

DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A. <u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B. <u>Fittings Arrangement</u>	<u>F-020-2011 (see notes)</u>	<u>M156094</u>
C. <u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D. <u>BOV Arrangement</u>	<u>V-014-80058-07 (Jamesbury)</u>	<u>M156163 (see notes)</u>
E. _____	_____	_____
F. _____	_____	_____

17. Revisions and Notes:
 Fittings drawings F-020-2011 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
 BOV drawing V-014-80058-07 is the same as V-014-80058-01 except for the gasket materials.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 02/14/2018

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Sabrina Luevano

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 351793
 3. Reported by: DAVID 4. Date work performed: 12/12/2015
 5. Work Performed at: TRINITY RAIL SERVICES SI Ref#: 325360
 6. Report of: Tank Repairs: Alterations
 7. Built date: 04/25/2013 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L126114 10. Commodity: 4910191(Bakken Crude)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

NA

B) Procedure and defect:

Alteration: AAR # M156141
 Change Safety valve, Applied Kelso JS75XHS-316-08-C
 Change BOV, Applied Jamesbury 9RET 36HBXTFO
 Applied Salco Disengagable BOV Handle
 Change VRV, Applied Midland A-222-W-NS-FR20-5-VB
 Change 2" ball Valve, Applied Jamesbury 9150RR313600XTZ2A-ESD12
 Change 3" ball Valve, Applied Jamesbury 9150RR313600XTZ2A-ESD13
 Applied 11 Gage Jacket, 0.5 Jacket Head and 0.5 Thermal protection
 Apply Pressure Style Bolt-on Protective Housing to Multi Housing-1/2 Thick
 Lt Weight before this work 74400
 Lt Weight after this work 87550

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>FITTING</u>	<u>F-020-2002</u>	<u></u>
B.	<u>GENERAL</u>	<u>M-042-31808RP</u>	<u></u>
C.	<u>BOV ARRANGEMENT MIDLAND</u>	<u>V-014-80058-01</u>	<u></u>
D.	<u>BOV ARRANGEMENT JAMESBURY</u>	<u>V-014-80092-01</u>	<u></u>
E.	<u></u>	<u></u>	<u></u>
F.	<u></u>	<u></u>	<u></u>

17. Revisions and Notes:

The car(s) listed above conform to all approvals mentioned and to all applicable DOT requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name _____ Location (City/State) _____
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Management Representative
(Signature):

Date :

Recorded By:

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 352058
 3. Reported by: DAVID 4. Date work performed: 11/18/2015
 5. Work Performed at: TRINITY RAIL SERVICES SI Ref#: 317162
 6. Report of: Tank Repairs: Alterations
 7. Built date: 10/14/2013 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L136076 10. Commodity: 4910164(PETRO CONDENSAT)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

B) Procedure and defect:

AAR NO. M156163
 APPLY SALCO DISENGAGABLE BOV HANDLE
 APPLY 11 GAGE JACKET, 0.5" JACKET HEAD AND 0.5" THERMAL PROTECTION
 APPLY PRESSURE STYLE BOLT-ON PROTECTIVE HOUSING TO MULTI HOUSING-1/2" THICK
 UP GRADE AND RESTENCIL LOAD LIMIT TO REFLECT 286 UPGRADE
 PREVIOUS LT WEIGHT 74400
 LT WEIGHT AFTER THIS WORK 88100

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>FITTING</u>	<u>F-020-2002</u>	<u></u>
B.	<u>GENERAL</u>	<u>M-042-31808RP</u>	<u></u>
C.	<u>BOV ARRANGEMENT & SALCO HANDLE</u>	<u>V-014-80058-01</u>	<u></u>
D.	<u>PROTECTIVE HOUSING</u>	<u>F-050-800026-01</u>	<u></u>
E.	<u></u>	<u></u>	<u></u>
F.	<u></u>	<u></u>	<u></u>

17. Revisions and Notes:

The car listed above conforms to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name _____ Location (City/State) _____
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : _____

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 199078
 3. Reported by: TRINITYRAIL #25 4. Date work performed: 01/29/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref#: 385333
 6. Report of: Tank Repairs: Alterations
 7. Built date: 07/01/2007 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L066070 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): DOT 111A100W1
 13. Stenciled spec (after this work): DOT 117R100W
 14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)
 A) Nature and location of defect:
 N/A
 B) Procedure and defect:
 N/A

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:
 Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
 Apply disengageable BOV handle
 Change protective housing to 1/2" thick, bolt-on
 Apply Kelso JS75XHS safety valve, AAR #PRD 079004
 Increase gross rail load to 286,000 lbs
 New Tare weight: 79100 lbs

16. Pertinent approved drawings:

DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A. <u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B. <u>Fittings Arrangement</u>	<u>F-020-2011 (see notes)</u>	<u>M156094</u>
C. <u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D. <u>BOV Arrangement</u>	<u>V-014-80058-07 (Jamesbury)</u>	<u>M156163 (see notes)</u>
E. _____	_____	_____
F. _____	_____	_____

17. Revisions and Notes:
 Fittings drawings F-020-2011 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
 BOV drawing V-014-80058-07 is the same as V-014-80058-01 except for the gasket materials.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 02/26/2018

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Sabrina Luevano

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 192495
3. Reported by: TRINITYRAIL #25 4. Date work performed: 03/23/2018
5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref#: 388858
6. Report of: Tank Repairs: Alterations
7. Built date: 09/01/2005 8. Built By: TRIN - Trinity
9. Original AAR Certificate No: L056059 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

NA

B) Procedure and defect:

NA

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)

Apply disengageable BOV handle

Change protective housing to 1/2" thick, bolt-on

Apply Kelso JS75XHS safety valve, AAR #PRD 079004

Increase gross rail load to 286,000 lbs

New Tare weight: 79500lbs

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B.	<u>Fittings Arrangement</u>	<u>F-020-2008-01</u>	<u>M156094</u>
C.	<u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D.	<u>BOV Arrangement</u>	<u>V-014-80252-02 (5RET3)</u>	<u>C156108 (see notes)</u>
E.	<u></u>	<u></u>	<u></u>
F.	<u></u>	<u></u>	<u></u>

17. Revisions and Notes:

Fittings drawings F-020-2008-01 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.

BOV drawing V-014-80252-02 is the same as V-014-80116 except the attachment of the brackets is welded instead of bolted.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
Date: 05/29/2018

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Management Representative
(Signature):

Recorded By:

Sabrina Luevano

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 194312
 3. Reported by: TRINITYRAIL #25 4. Date work performed: 01/09/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref# : 383866
 6. Report of: Tank Repairs: Alterations
 7. Built date: 10/01/2007 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L076034A 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): DOT 111A100W1
 13. Stenciled spec (after this work): DOT 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

N/A

B) Procedure and defect:

N/A

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

- Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
- Apply disengageable BOV handle
- Change protective housing to 1/2" thick, bolt-on
- Apply Kelso JS75XHS safety valve, AAR #PRD 079004
- Increase gross rail load to 286,000 lbs
- New Tare weight: 79300 lbs

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B.	<u>Fittings Arrangement</u>	<u>F-020-2008 (see notes)</u>	<u>M156094</u>
C.	<u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D.	<u>BOV Arrangement</u>	<u>V-014-80252-02 (5RET3)</u>	<u>C156108</u>
E.	<u> </u>	<u> </u>	<u> </u>
F.	<u> </u>	<u> </u>	<u> </u>

17. Revisions and Notes:

- Fittings drawings F-020-2008 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
- BOV drawing V-014-80252-02 is the same as V-014-80116 except the attachment of the brackets is welded instead of bolted.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 01/24/2018

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Sabrina Luevano

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 191499
 3. Reported by: TRINITY RAIL #25 4. Date work performed: 12/17/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref#: 409878
 6. Report of: Tank Repairs: Alterations
 7. Built date: 08/01/2006 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L056007 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

A) Nature and location of defect:

NA

B) Procedure and defect:

NA

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
 Apply disengageable BOV handle
 Change protective housing to 1/2" thick, bolt-on
 Apply Kelso JS75XHS safety valve, AAR #PRD 079004
 Increase gross rail load to 286,000 lbs
 New Tare Weight: 80500 lbs

16. Pertinent approved drawings:

DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A. <u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B. <u>Fittings Arrangement</u>	<u>F-020-2015</u>	<u>M156094</u>
C. <u>Jacket Support Assy</u>	<u>J-012-80010</u>	<u>M156094</u>
D. <u>BOV Arrangement</u>	<u>V-014-80279</u>	<u>C156108 (see notes)</u>
E. _____	_____	_____
F. _____	_____	_____

17. Revisions and Notes:

Fittings drawings F-020-2015 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
 BOV drawing V-014-80252-02 is the same as V-014-80116 except the attachment of the brackets is welded instead of bolted.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 01/03/2019

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Melissa Pilot

Comments:

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EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

1. To AAR Executive Director-Tank Car Safety 2a. Car Mark TILX 2b. Car Number 199062
 3. Reported by: Sabrina Luevano 4. Date work performed: 06/04/2018
 5. Work Performed at: TRINITY RAIL MAINTENANCE SERVICES SI Ref# : 393166
 6. Report of: Tank Repairs: Alterations
 7. Built date: 06/01/2007 8. Built By: TRIN - Trinity
 9. Original AAR Certificate No: L066070 10. Commodity: 4909152(ETHYL-ALC-ANHYD)
 11. Constructed car spec: 111A100W1 12. Car spec (after this work): 111A100W1
 13. Stenciled spec (after this work): 117R100W

14. Tank repairs: (Ref. M-1002 Appendix R, Fig. R2)

- A) Nature and location of defect:
 NA
- B) Procedure and defect:
 NA

15. For Alterations, Conversions, Pressure Relief Devices or Other, list Procedure and Materials:

Apply 11 gage jacket, 0.5" jacket head and 0.5" thick thermal protection (ceramic fiber blanket)
 Apply disengageable BOV handle
 Change protective housing to 1/2" thick, bolt-on
 Apply Kelso JS75XHS safety valve, AAR #PRD 079004
 Increase gross rail load to 286,000 lbs
 New Tare weight: 79000 lbs

16. Pertinent approved drawings:

	DRAWING TITLE	DRAWING NUMBER	AAR CERTIFICATE NUMBER
A.	<u>General Arrangement</u>	<u>M-042-30145RP14</u>	<u>M156094</u>
B.	<u>Fittings Arrangement</u>	<u>F-020-2011 (see notes)</u>	<u>M156094</u>
C.	<u>Jacket Support Assy.</u>	<u>J-012-80010</u>	<u>M156094</u>
D.	<u>BOV Arrangement</u>	<u>V-014-80058-07 (Jamesbury)</u>	<u>C156108 (see notes)</u>
E.	<u></u>	<u></u>	<u></u>
F.	<u></u>	<u></u>	<u></u>

17. Revisions and Notes:

Fittings drawings F-020-2011 is the same as F-020-2002 except for the grade of steel of the protective housing and the specific valves used.
 BOV drawing V-014-80058-07 is the same as V-014-80058-01 except for the gasket materials.

The cars listed above conform to all approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

Company Name TRINITY RAIL MAINTENANCE SERVICES Location (City/State) Fort Worth, TX
 Management Representative(Name): Roy Rogers Title: Director of Quality and Compliance
 Management Representative (Signature): _____ Date : 07/11/2018

EXHIBIT R-1 REPORT OF TANK REPAIRS, ALTERATION OR CONVERSION

Recorded By:

Sabrina Luevano

Comments:

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