

FINAL PRODUCT TEST AND INSPECTION REPORT

1. Applicant <u>Engineered Controls International LLC</u>	AAR No. <u>PRD099018</u>
Address <u>100 RegO Drive, PO Box 247, Elon, NC 27244 USA</u>	AAR Docket No. _____
2. Manufacturer <u>Engineered Controls International LLC</u>	AAR Service Trial No. <u>ST433</u>
Address <u>100 RegO Drive, PO Box 247, Elon, NC 27244 USA</u>	Date <u>11-7-13</u>

3. Description of device <u>Safety Relief Valve</u>	
4. Device designation or model no. <u>A8434F Series</u>	
5. Total number of devices in service <u>31</u>	6. Number of devices for teardown <u>5</u>
7. Service data from latest Form AAR 4-4 dated <u>11/01/12</u>	
Total load/unload cycles <u>12.6 Average</u>	Total loaded mileage <u>10,810 Average</u>
Total service time <u>3 Years</u>	

8. Teardown data

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
From car number.....	TILX500723	TILX500740	TILX500765	TILX500771	TILX500772
Last lading.....	Anhydrous Ammonia	Anhydrous Ammonia	Anhydrous Ammonia	Anhydrous Ammonia	Anhydrous Ammonia
Model number.....	A8434F-280	A8434F-280	A8434F-280	A8434F-280	A8434F-280
Serial number.....	251	242	252	227	228
Test pressure, psi (kPa).....					
Test temperature, °F (°C).....	70°F	70°F	70°F	70°F	70°F
Test medium.....	Air	Air	Air	Air	Air
Cycles.....	3	3	3	3	3
STD psi (kPa).....	300,297,295	305,300,300	295,290,290	310,305,305	320,320,320
Vapor tight, psi (kPa).....	See Note	See Note	See Note	See Note	See Note
Test remarks.....	STD was Pop, No Vapor Tight	STD was Pop, No Vapor Tight	STD was Pop, No Vapor Tight	STD was Pop, No Vapor Tight	STD was Pop, No Vapor Tight
Physical condition.....	As Received	As Received	As Received	As Received	As Received
Compare critical final dimensions to original.....	N/A	N/A	N/A	N/A	N/A
9. Drawing numbers.....					
(Ref. Form AAR 4-3 or AAR 4-5)...					
Revisions made.....					
Revision date.....					


10. Conclusions See attached.

11. Recommendations to Tank Car Committee _____


12. CERTIFICATION

The above data is correct and complies with the AAR Specifications for Tank Cars, Appendix A. Devices tested conform to the drawings listed above.

MANUFACTURER or APPLICANT


 (Signature)
 Title Engineering Manger
 Company Engineered Controls International LLC

INDEPENDENT OBSERVER


 (Signature)
 Title SR Inspector
 Company TCD - BCE

13. APPROVAL AAR Tank Car Committee

Date approved OCT 07 2014


 (Signature) on behalf of Tank Car Committee

NOTE: The AAR Tank Car Committee reserves the right to designate an independent observer to be present during test and teardown activity.