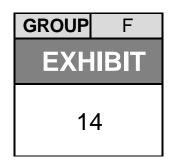


NATIONAL TRANSPORTATION SAFETY BOARD Investigative Hearing

Norfolk Southern Railway general merchandise freight train 32N derailment with subsequent hazardous material release and fires, in East Palestine, Ohio, on February 3, 2023



Agency / Organization

GATX Corporation

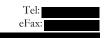
Title

Excerpts of Tank Car Qualification File for GATX95098, February 17, 2023.



GATX Corporation Rail North America 233 S. Wacker Drive Chicago, IL 60606-7147

Peter R. Manyek Sr. Manager Design Engineering



February 17, 2023

Subject: NTSB Investigation RRD23MR005 02-03-23 East Palestine, Ohio, Derailment GATX095098 Car Information and Repair History

The attached GATX maintenance records for GATX095098 ("the car") indicate:

- 1. The car is a 1992 Trinity built, 25,740-gallon HP tank car with a gross rail load capacity of 263,000 pounds.
 - a. Stencil Class: DOT 105J300W
 - b. Constructed Class: DOT 105A300W
- 2. Certificate of Construction: F916110 attached.
- 3. The car is in a full-service lease with OCCIDENTAL CHEMICAL CORPORATION
- 4. We understand that the commodity that the car carried at the time of the accident was VINYL CHLORIDE (MONOMER). MSDS attached. We could find no record of what the car carried prior to the accident.
- 5. See attached Tank Arrangement Drawings D-42540
- 6. See attached Fittings Arrangement Drawings D-44638
- 7. See attached Bonnet Arrangement Drawing D-143547
- 8. See attached Manway Cover Drawing D-243786
- 9. See attached car Service Equipment parts listing GATX095098_IB 11-18-2021_GAGA Shop Portal Forms.pdf
- The Jamesbury angle valves were replaced with Midland A720 angle valves on 4-4-2007 with an unplanned program by the customer where our car records did not get updated. See attached R1 - GATX095098_R1_04-01-2007_ANGLE VLV CHNG.pdf.
- 11. The Safety valve was replaced with a Midland 247.5 safety valve per GATX program I0-8296 on 11-21-1996. See IO-8296-D-2.pdf
- 12. The car was last qualified at our GATX repair facility in Waycross, GA in 2021. See attached qualification records GATX095098_IB 11-18-2021_GAGA Shop Portal Forms.pdf



	FRA- DOT	AIP 20	1901 DOW	A DATE OF THE OWNER
	001	STOTEN STOTEN	QUALIFIED	DUE
-	TANK QUALIFICATION	GAGA	2021	2031
	THICKNESS TEST	GAGA	2021	2031
-	SERVICE EQUIPMENT	GAGA	2021	2031
	PRD: WALVE 247.5 PSI	GAGA	2021	2031
	LINING;			
	88.8.2 INSPECTION	GAGA	2021	2031
	STUB BILL INSPECTION	GABA	2021	2031

- 13. See attached R1 records for the car GATX095098_R1_03-01-14.pdf14. There may, of course, have been other maintenance done to this car for which we have no records.



GATX Initial Service Equipment

Car Reference

Car Number: GATX095098 Facility: GAGA

Stencil Class: DOT 105J300-W

Procedure: FM-0875-0001-000

Future Commodity: 2813966 VINYL CHLORIDE

Customer #1: OCCIDENTAL CHEMICAL CORPORATION

Test ID	Test	Created By	Created Date	Signed By	Signed Date
1	Identify Fittings	Austin Eunice	11/30/2021	Austin Eunice	11/30/2021
2	Leak Test	Austin Eunice	11/30/2021	Austin Eunice	11/30/2021
3	Bench Test	Greg Taylor	12/01/2021	Greg Taylor	12/01/2021
4	Visual Test	Jason Johnson	12/03/2021	Jason Johnson	12/03/2021

Fitting	Leak Test	Visual Test	Bench Test	Status
Manway Cover Plates - Single LocationSTEEL, 20", S/N UNKNOWN	Pass	Pass	N/A	Complete
Eduction Valve HP Car - NELES-JAMESBURY, AZFRA, 2236-TT, ANGLE VALVE ASSEMBLY, A, STEEL/STAINLESS STEEL, FLANGED, 2", S/N UNKNOWN	Pass	Fail	NT	Complete
Eduction Valve HP Car - NELES-JAMESBURY, AZFRA, 2236-TT, ANGLE VALVE ASSEMBLY, B, STEEL/STAINLESS STEEL, FLANGED, 2", S/N UNKNOWN	Pass	Pass	NT	Complete
Induction Valve HP Car - NELES-JAMESBURY, AZFRA, 2236-TT, ANGLE VALVE ASSEMBLY, Single Location, STEEL/STAINLESS STEEL, FLANGED, 2", S/N UNKNOWN	Pass	Pass	NT	Complete
Eduction Excess Flow Valves - MIDLAND MANUFACTURING CORP, A- 164, A, STEEL, WELDED, 3", S/N UNKNOWN	N/A	Pass	N/A	Complete
Eduction Excess Flow Valves - MIDLAND MANUFACTURING CORP, A- 164, B, STEEL, WELDED, 3", S/N UNKNOWN	N/A	Pass	N/A	Complete
Induction Excess Flow Valves - MIDLAND MANUFACTURING CORP, A- 174, Single Location, STEEL, WELDED, 3", S/N UNKNOWN	N/A	Pass	N/A	Complete
Sample Line Excess Flow Valves - MIDLAND MANUFACTURING CORP, A-119, Single Location, STAINLESS STEEL, SCREWED, 1 $1/4$ ", S/N UNKNOWN	N/A	Pass	N/A	Complete
Reclosing PRD (valve) - MIDLAND MANUFACTURING CORP, A-34247, VA, 247.5, Single Location, STEEL/STAINLESS STEEL, VITON A, S/N UNKNOWN	Pass	Fail	Pass	Complete
Magnetic / Electronic Gauging Devices - MIDLAND MANUFACTURING CORP, Single Location, STAINLESS STEEL, FLANGED, S/N UNKNOWN	Pass	Pass	N/A	Complete
Sample Valves - MIDLAND MANUFACTURING CORP, A-257, EPR, NEEDLE VALVE ASSEMBLY, Single Location, STAINLESS STEEL, SCREWED, 3/4", S/N UNKNOWN	Pass	Fail	N/A	Complete
ThermoWells - MIDLAND MANUFACTURING CORP, B-290-CS, EPR, Single Location, STEEL, S/N UNKNOWN	Pass	Pass	N/A	Complete
Rigid Eduction Pipes - Single LocationSTAINLESS STEEL, 3", S/N UNKNOWN	N/A	Pass	N/A	Complete
Slip Tube Gauging Devices - Single LocationFLANGED, S/N UNKNOWN	N/A	Pass	N/A	Complete

Comments - General

Comments - OTMA

First Saved: 11/30/2021 08:33:37

GATX as Received Visual Test

Procedure:

FM-0875-0001-000

Fitting		Test Result	Test ID
Manway Cover Plates - STEEL, 20", S	/N UNKNOWN	Pass	4
Eduction Valve HP Car - NELES-JAME 2236-TT, STEEL/STAINLESS STEEL, FL UNKNOWN	Fail	4	
Inspection Point	Service Equip	oment Defect Reason	
Valve Handle / Handwheel	eces		
Eduction Valve HP Car - NELES-JAME 2236-TT, STEEL/STAINLESS STEEL, F UNKNOWN		Pass	4
Induction Valve HP Car - NELES-JAMI 2236-TT, STEEL/STAINLESS STEEL, FI UNKNOWN		Pass	4
Eduction Excess Flow Valves - MIDLA MANUFACTURING CORP, A-164, STE UNKNOWN		Pass	4
Eduction Excess Flow Valves - MIDLA MANUFACTURING CORP, A-164, STE UNKNOWN		Pass	4
Induction Excess Flow Valves - MIDL MANUFACTURING CORP, A-174, STE UNKNOWN		Pass	4
Sample Line Excess Flow Valves - MI MANUFACTURING CORP, A-119, STA SCREWED, 1 1/4", S/N UNKNOWN		Pass	4
Reclosing PRD (valve) - MIDLAND MA CORP, A-34247, VA, STEEL/STAINLES S/N UNKNOWN		Fail	4
Inspection Point	Service Equip	oment Defect Reason	
Spring	Worn out		
Magnetic / Electronic Gauging Device MANUFACTURING CORP, UNKNOWN, STAINLESS STEEL, FLANGED, S/N UNI	UNKNOWN,	Pass	4
Sample Valves - MIDLAND MANUFAC 257, EPR, STAINLESS STEEL, SCREWEI UNKNOWN		Fail	4
Inspection Point	Service Equip	oment Defect Reason	
Valve Body	Missing component(s)		
ThermoWells - MIDLAND MANUFACT 290-CS, EPR, STEEL, S/N UNKNOWN	URING CORP, B-	Pass	4
Rigid Eduction Pipes - UNKNOWN, U UNKNOWN, STAINLESS STEEL, 3", S/N		Pass	4

UNKNOWN, STAINLESS STEEL, 3", S/N UNKNOWN		
Slip Tube Gauging Devices - FLANGED, S/N UNKNOWN	Pass	4

GATX as Receive	ed Leak Test
Procedure:	NDT-LT
Is Initial LT being done?	√ Yes No
Calibration Infor	rmation
Date of Leak Test:	30 Nov 2021
Thermometer S/N:	57-0044Calibration Due Date:9 Feb 2022
Gauge	S/N Range Calibration Due Date
Primary Gauge:	57-791b 0 100 psig 23 Feb 2022
Secondary Gauge:	57-790b 0 - 100 psig 1 Mar 2022
Test Medium:	Compressed Air Nitrogen
	✓Shop Air
Test Pressure:	30 psig $\sqrt{50 \text{ psig}}$
Test Solution (°F):	✓ Big Blu 35 - 177 Big Blu Sub Zero - 30 - 200
	Real Cool Snoop - 65 - 200 Sherlock 33 - 160
	Sherlock Extra Low - 65 - 16 Sherlock Low - 10 - 160
	Snoop 27 - 200 Super Blu - 30 - 202
	Water 32 - 212

Fitting	Surface Temperature	Test Result	Test ID
Manway Cover Plates - STEEL, 20", S/N UNKNOWN	45.0	Pass	2
Eduction Valve HP Car - NELES-JAMESBURY, AZFRA, 2236-TT, STEEL/STAINLESS STEEL, FLANGED, 2", S/N UNKNOWN	45.0	Pass	2
Eduction Valve HP Car - NELES-JAMESBURY, AZFRA, 2236-TT, STEEL/STAINLESS STEEL, FLANGED, 2", S/N UNKNOWN	45.0	Pass	2
Induction Valve HP Car - NELES-JAMESBURY, AZFRA, 2236-TT, STEEL/STAINLESS STEEL, FLANGED, 2", S/N UNKNOWN	45.0	Pass	2
Reclosing PRD (valve) - MIDLAND MANUFACTURING CORP, A-34247, VA, STEEL/STAINLESS STEEL, VITON A, S/N UNKNOWN	45.0	Pass	2
Magnetic / Electronic Gauging Devices - MIDLAND MANUFACTURING CORP, UNKNOWN, UNKNOWN, STAINLESS STEEL, FLANGED, S/N UNKNOWN	45.0	Pass	2
Sample Valves - MIDLAND MANUFACTURING CORP, A- 257, EPR, STAINLESS STEEL, SCREWED, 3/4", S/N	45.0	Pass	2

257, EPR, STAINLESS STEEL, SCREWED, 3/4", S/N UNKNOWN			
ThermoWells - MIDLAND MANUFACTURING CORP, B- 290-CS, EPR, STEEL, S/N UNKNOWN	45.0	Pass	2

rocedure:	NI	DT-BT			
Eduction Valve HP C STEEL, FLANGED, 2"			AZFRA, 223	3- TT, STEEL/STAIN	NLESS
Гest Result		Not Tested		Test ID: 3	
Why not tes	sted?: N	Validated by other in	nspection metho	d	
Eduction Valve HP C STEEL, FLANGED, 2"			AZFRA, 223	3- TT, STEEL/STAIN	NLESS
Fest Result		Not Tested		Test ID: 3	
Why not tes	sted?:	Validated by other in	spection metho	d	
Induction Valve HP STEEL, FLANGED, 2"			AZFRA, 223	86- TT, STEEL/STAI	INLESS
Гest Result		Not Tested		Test ID: 3	
Why not tes	sted?: V	Validated by other in	spection metho	d	
TEEL/STAINLESS S		N A, S/N UNKN	OWN		
STEEL/STAINLESS S		N A, S/N UNKN Pass	OWN	2P, A- 34247, VA, Test ID: 3	
STEEL/STAINLESS S	FEEL, VITOM	N A, S/N UNKN Pass 021	OWN		
STEEL/STAINLESS S' Cest Result Date of Bench Test:	TEEL, VITON	N A, S/N UNKN Pass 021	OWN	Test ID: 3]
STEEL/STAINLESS S' 'est Result Date of Bench Test: Thermometer S/N:	 ΓΕΕL, VITON 1 Dec 20 57-0044 247.0 	N A, S/N UNKN Pass 021	OWN tion Due Date:	Test ID: 3]
STEEL/STAINLESS S Sest Result Date of Bench Test: Thermometer S/N: Test Pressure:	ΓΕΕL, VITON 1 Dec 20 57-0044 247.0 Prima	N A, S/N UNKN Pass 021 Calibra	OWN tion Due Date: Secc	Test ID: 3 9 Feb 2022]
STEEL/STAINLESS S Cest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge:	ΓΕΕL, VITON 1 Dec 20 57-0044 247.0 Prima	N A, S/N UNKN Pass 021 Calibra ry Gauge	OWN tion Due Date: Secc	Test ID: 3 9 Feb 2022 ndary Gauge]
STEEL/STAINLESS S Cest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0	N A, S/N UNKN Pass 021 Calibra ry Gauge g Ø Digital 1,000.0 psig	OWN tion Due Date: Secc 57-0018b 0.0	Test ID: 3 9 Feb 2022 ndary Gauge alog √ Digital 1,000.0 psig]
STEEL/STAINLESS S est Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0	N A, S/N UNKN Pass 021 Calibra ry Gauge g 🖌 Digital	OWN tion Due Date: Secc 57-0018b 0.0	Test ID: 3 9 Feb 2022 ndary Gauge alog √Digital]
STEEL/STAINLESS S Cest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0	N A, S/N UNKN Pass 021 Calibra ry Gauge g ✓ Digital 1,000.0 psig Iay 2022	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl	Test ID: 3 9 Feb 2022 ndary Gauge alog ✓ Digital 1,000.0 psig 7 Jan 2022 u_Sub_Zero - 30 - 200]
STEEL/STAINLESS S Cest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0 17 M Big_Blu 3	N A, S/N UNKN Pass 021 Calibra ry Gauge g ✓ Digital 1,000.0 psig Iay 2022	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl	Test ID: 3 9 Feb 2022 ndary Gauge alog √ Digital 1,000.0 psig 7 Jan 2022]
STEEL/STAINLESS S Cest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0 17 M Big_Blu 3 Real_Coo	N A, S/N UNKN Pass 021 Calibra ary Gauge g ✓ Digital 1,000.0 psig Iay 2022 5 - 177	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl 0 Sherlo	Test ID: 3 9 Feb 2022 ndary Gauge alog ✓ Digital 1,000.0 psig 7 Jan 2022 u_Sub_Zero - 30 - 200]
STEEL/STAINLESS S Cest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0 17 M Big_Blu 3 Real_Coo	N A, S/N UNKN Pass 021 Calibra calibra ry Gauge g √ Digital 1,000.0 psig lay 2022 5 - 177 l_Snoop - 65 - 200 _Extra_Low - 65 -	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl 0 Sherlo 160 Sherlo	Test ID: 3 9 Feb 2022 ndary Gauge alog ✓ Digital 1,000.0 psig 7 Jan 2022 u_Sub_Zero - 30 - 200 ck 33 - 160	
STEEL/STAINLESS S' Fest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0 17 M Big_Blu 3 Real_Coo Sherlock_	N A, S/N UNKN Pass 021 Calibra Calibra ry Gauge g √ Digital 1,000.0 psig Iay 2022 5 - 177 l_Snoop - 65 - 200 _Extra_Low - 65 - 7 - 200	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl 0 Sherlo 160 Sherlo	Test ID: 3 9 Feb 2022 ndary Gauge alog ✓ Digital 1,000.0 psig 7 Jan 2022 u_Sub_Zero - 30 - 200 ck 33 - 160 ck_Low - 10 - 160	
Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0 17 M Big_Blu 3 Real_Coo Sherlock_ Snoop 27	N A, S/N UNKN Pass 021 Calibra Calibra ry Gauge g √ Digital 1,000.0 psig Iay 2022 5 - 177 l_Snoop - 65 - 200 _Extra_Low - 65 - 7 - 200	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl 0 Sherlo 160 Sherlo	Test ID: 3 9 Feb 2022 ndary Gauge alog ✓ Digital 1,000.0 psig 7 Jan 2022 u_Sub_Zero - 30 - 200 ck 33 - 160 ck_Low - 10 - 160	
STEEL/STAINLESS S' Test Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date: Test Solution (°F):	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0 17 M Big_Blu 3 Real_Coo Sherlock_ Snoop 27 ✓ Water 32	N A, S/N UNKN Pass 021 Calibra Calibra ry Gauge g √ Digital 1,000.0 psig Iay 2022 5 - 177 l_Snoop - 65 - 200 _Extra_Low - 65 - 7 - 200	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl 0 Sherlo 160 Sherlo	Test ID: 3 9 Feb 2022 ndary Gauge alog ✓ Digital 1,000.0 psig 7 Jan 2022 u_Sub_Zero - 30 - 200 ck 33 - 160 ck_Low - 10 - 160	
STEEL/STAINLESS S' Fest Result Date of Bench Test: Thermometer S/N: Test Pressure: Pressure Gauge: Type: S/N: Range: Calibration Due Date: Test Solution (°F): PRD STD:	1 Dec 20 57-0044 247.0 Prima Analo 57-0014 0.0 17 M Big_Blu 3 Real_Coo Sherlock_ Snoop 27 ✓ Water 32 246.0 233.0	N A, S/N UNKN Pass 021 Calibra Calibra ry Gauge g √ Digital 1,000.0 psig Iay 2022 5 - 177 l_Snoop - 65 - 200 _Extra_Low - 65 - 7 - 200	OWN tion Due Date: Secc Ana 57-0018b 0.0 2 Big_Bl 0 Sherlo 160 Sherlo	Test ID: 3 9 Feb 2022 ndary Gauge alog ✓ Digital 1,000.0 psig 7 Jan 2022 u_Sub_Zero - 30 - 200 ck 33 - 160 ck_Low - 10 - 160	



ocedure:	NDT-LT			
Leak Test #1 Did the Final Leak Test F Calibration Info				
Date of Leak Test: Thermometer S/N: Gage Primary Gage: Secondary Gage: Test Medium:	17 Dec 2021 57-2062 Calib S/N Range #5G 0 57-1377H 0	ration Due Date: Calibre Calib	19 Oct 2022 ration Due Date 21 Apr 2022 16 Feb 2022]
Test Pressure: Test Solution (°F):	Shop Air 30 psig ✓Big Blu 35 - 177 Real Cool Snoop - 65 - 20 Sherlock Extra Low - 65 - Snoop 27 - 200	∑ 50 psig Big Blu Sub 0 Sherlock 33	ow - 10 - 160	
Fittings	Water 32 - 212			
	Fitting	Surface Temperature	Test Result	Test ID
Manway Cover Plates - UNKNOWN	Single Location, 20", S/N	60	Pass	3
Eduction Valve HP Car TT, A, 2", S/N AFA469	- NELES-JAMESBURY, AZFRA22:	36- 60	Pass	3
Eduction Valve HP Car TT, B, 2", S/N AFA467	- NELES-JAMESBURY, AZFRA223	60	Pass	3
Induction Valve HP Ca TT, Single Location, 2'	- NELES-JAMESBURY, AZFRA22 , S/N AFA470	36- 60	Pass	3
	- MIDLAND MANUFACTURING	60	Pass	3
	Single Location, CSI 5350 (VITC			

GATX-RRD23MR0050000157

GATX095098 GAGA IB: 11/18/2021

.

Page 8 of 8

GATX Final Service Equipment

	Rigid Eduction Pipes - UNKNOWN, UNKNOWNNONE, 60 Pass 3 Single Location, 3", S/N UNKNOWN 50 50 2	ThermoWells - MIDLAND MANUFACTURING CORP, B- 60 Pass 3 290-CSEPR, Single Location	Sample Valves - MIDLAND MANUFACTURING CORP, A- 60 Pass 3 257EPR, Single Location, 3/4", S/N UNKNOWN	MANUFACTURING CORP., UNKNOWNNONE, Single Location, S/N UNKNOWN
--	---	---	--	---

Г

Certificate Of Test

AAR Manual of Standards and Recommended Practices

Facility: GAGA

Future Commodity STCC: 2813966 VINYL CHLORIDE

Future Commodity CIN: 00030003 VINYL CHLORIDE

EXHIBIT D- 4		
CERTIFICATE OF TEST FORM	Compartment Count 1	
1. Reporting Marks and Car Number	GATX095098	
2. Tank Specification	DOT 105J300-W	
3. Stenciled Specification	DOT 105J300-W	
4. Tank Capacity in Gallons (liters) or pounds (kgs) of water		
5. Tank Test Pressure, psi (kPa)*		
6. Interior Heater System Test Pressure, psi (kPa)*		
7. Pressure Relief Valve (PRV)	No. 1 No. 2	
a. Name and Location of Company Performing Test of PRV		
b. Name and Location of Company Applying PRV	GAGA	
c. Manufacturer		
Model/Type Number		
d. Serial Number		
e. Start-To-Discharge Pressure, psi (kPa)** Low: High		
f. Vapor-Tight Pressure, psi (kPa)** Low: High		
g. Valve Seals Replaced (Y/N) (only those exposed to product)		
h. New Seal Material		
8. Combination Device Nominal Start-To-Discharge Pressure		
a. Rupture Disc Pressure, psi (kPa)		
b. Breaking Pin Lower Diaphragm Tight at psi (kPa)		
9. Rupture Disc Device		
a. Number of Rupture Disc Devices (on Compartment)		
b. Rupture Disc Pressure, psi (kPa)		
10. Excess Flow Valve Seat Tightness Checked (Y/N)	Yes	
11. Test Date (Date Stenciled on Car) (Estimated)	2021	
12. Tank Built/Conversion Date	04/01/1992	
13. Test Due Stencil		
a. Tank (Date Stenciled on Car) (Estimated)		
b. Pressure Relief Valve (Date Stenciled on Car) (Estimated)		
c. Interior Heater System (Date Stenciled on Car) (Estimated)		
14. Name and Location of Company Performing Tank and/or	GAGA	
Heater System Test	UAUA	

* Tested with hydrostatic pressure shown, for the required time period, without leaks or evidence of distress.

** Valve has been set to start-to-discharge and is vapor-tight at pressure shown. For combination devices, the start-to-discharge and vapor-tight pressures of the valve portion is shown.

I HEREBY CERTIFY THAT TESTS PERFORMED TO TANK CAR TANKS, PRESSURE RELIEF VALVES AND/OR HEATER SYSTEMS WERE DONE IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION REGULATIONS AND THE AAR SPECIFICATIONS FOR TANK CARS AND REPORTED CORRECTLY.

Applicator:

Travis McDowell

Date: 17 Dec 2021

First Saved: 12/03/2021 09:44:02

ST = Safety valve test SV = Safety valve application TT = Tank hydro test CT = Interior coil test

AAR Manual of Standards and Recommended Practices

Specifications for Tank Cars

Facility: GAGA Future Commodity STCC: 2813966 VINYL CHLORIDE

Future Commodity CIN: 00030003 VINYL CHLORIDE

1. Reporting Marks and Car Number	GATX095098
2. Tank Specification	DOT 105J300-W
3. Stenciled Specification	DOT 105J300-W
4. Tank Capacity in Gallons (liters)	
5. Tank Test Pressure, psi (kPa)*	
6. Interior Heater System Test Pressure, psi (kPa)*	
7. Pressure Relief Valve (PRV)	No. 1
a. Name and Location of Company Performing Test of PRV	GAGA
b. Name and Location of Company Applying PRV	GAGA
c. Manufacturer	MIDLAND MANUFACTURING CORP
Model/Type Number	A- 34247
d. Serial Number	JG42RA
Location	Single Location
e. Start-To-Discharge Pressure, psi (kPa)**	249.00
f. Vapor-Tight Pressure, psi (kPa)**	241.00
g. Valve Seals Replaced (Y/N) (only those exposed to product)	Y
h. New Seal Material	CSI 5350 (VITON GFS)
8. Combination Device	
a. Rupture Disc Pressure, psi (kPa)	N/A
b. Breaking Pin Lower Diaphragm Tight at psi (kPa)	N/A
9. Rupture Disc Device	
a. Number of Rupture Disc Devices	
b. Rupture Disc Pressure, psi (kPa)	
10. Excess Flow Valve Seat Tightness Checked (Y/N)	
11. Test Date (Date Stenciled on Car)	2023
12. Tank Built/Conversion Date	04/01/1992
13. Test Due Stencil	
a. Tank (Date Stenciled on Car)	
b. Pressure Relief Valve (Date Stenciled on Car)	2032
c. Interior Heater System (Date Stenciled on Car)	
14. Name and Location of Company Performing Tank and/or Heater System Test	GAGA
* Tested with hydrostatic pressure shown, for the required time period, without leaks or evidence of distress.	

** Valve has been set to start-to-discharge and is vapor-tight at pressure shown. For combination devices, the start-to-discharge and vapor-tight pressures of the valve portion is shown.

I HEREBY CERTIFY THAT TESTS PERFORMED TO TANK CAR TANKS, PRESSURE RELIEF VALVES AND/OR HEATER SYSTEMS WERE DONE IN ACCORD WITH THE DEPARTMENT OF TRANSPORTATION REGULATIONS AND THE AAR SPECIFICATIONS FOR TANK CARS AND REPORTED CORRECTLY.

Owner/Tester:

Tony Courson

Date: 4 Jan 2022

Fig. D.4 Certificate of Test Form