UPRR Derailment Fort Worth TX 4-24-19 Rev 4-29-19

Wreck Index Number	Consist Line Number		Car Mark	Car Number	Builder	DOT Spec	Tank Shell Thickness	-	File Number	Built Date	Breach Yes / No	Breach Location / Description / Damage Description	Manway Compromised	Multihousing Compromised	Valves Damaged	Skid Damaged	BOV Adaptor Sheared	BOV Open	BOV Handle Damaged?	Dis- Engagable BOV Handle	Thermal Tear	Mech Tear	Draft sill torn off A End	Draft sill torn off B End	Head Brace pulled from head pad	Head pad pulled from tank	Body Bolster pulled from pad	Bolster Pad pulled from tank	Complete
NA	57	17	TILX	199335	Trinity	117R100W	7/16	30145	T06021X	5/1/2007	NO	Rerailed and moved on own wheels. Lead set was off the rail outside west and #2 set was inside. 4-25-19	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
NA	58	18	TILX	199040	Trinity	117R100W	7/16	30145	T06021B	5/1/2007	NO	Rerailed and moved on own wheels. Lead set was off the rail outside west and #2 set was inside. 4-25-19	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
1	59	19	TILX	191488	Trinity	117R100W	7/16	30145	T04052A	8/1/2004	NO	Jacket wrinkled on A end, burned in fire. Several dents, PRD did not function.	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
3	60	20	TILX	198946	Trinity	117R100W	7/16	30145	T06021D	10/1/2007	NO	Dent in B end head, brake rigging and safety appliances bent and torn off. Salco BOV handle bent and functioned as designed.	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
5	61	21	TILX	194329	Trinity	117R100W	7/16	30145	T06092T	11/1/2007	NO	A&B end platforms ton off / bent. Jacket wrinkled at ends. BOV Handle torn off	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
7	62	22	TILX	351873	Trinity	117R100W CPC 1232	1/2	31808	T12145C	11/23/2013	NO	B end bottom burned and torn / gouges in tank. Jacket torn / pushed back on A end bottom. Dents in A end head. Salco BOV handle crushed- BOV closed. Suspected to be leaking from bottom tank shell. Car will be transloaded/cleaned and jacket removed for NTSB/ FRA/ Trn inspection - confirmed no release (5/22/19).	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
2	63	23	UTLX	290403	UTC	117R100W	7/16	30270	?	10/1/2007	YES	A end head shield torn off. Protective housing sheared off and dented tank shell. All valves sheared off. BL body bolster crushed and torn 13"x6" hole torn with bolster pad material and tank shell. B end head and shell damaged 27" deep x72" long X 42"wide. 1489 gals recovered. NTSB Hold for coupon.	YES	YES	YES	NO	YES	NO	YES	YES	NO	YES	NO	NO	NO	NO	YES	YES	YES
4	64	24	TILX	363368	Trinity	117J100W	9/16	30300	T17057A	7/20/2018	NO	BR side jacket peeled back and 116" gouge / dent. BL side jacket torn at weld creased and raised. B end head has 2'x2' dent in head. A&B end platforms bent up. BOV handle torn off.	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
6	65	25	тсвх	194145	Trinity	111A100W1	7/16	30145	T06002	9/1/2006	YES	BL side torn open 86"x255" Mechanical tear and 7/16 shell rolled up. BR side has major dent and bars and shell creased. Shell burned 3/4. PRD did not function. DOT 111 car had not been modified. Skid dented and attachment torn from bars.	NO	NO	NO	YES	YES	YES	YES	NO	NO	YES	NO	YES	NO	NO	NO	NO	YES
8	66	26	GATX	225797	Trinity	117J100W	9/16	30300	T18058	11/9/2018	NO	AL side burned and dent a/ crease in tank shell. AL body bolster pad torn from tank shell. A end stub sill torn off at Head brace. NTSB-AL bolster and tank shell damage. Inspect for leak confirmed no release (5/22/19).	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	YES	NO	NO	NO	NO	YES	YES
9	67	27	TILX	198738	Trinity	117R100W	7/16	30145	T06021D	6/1/2007	NO	AL side Burned and major dent / Crease 69"x184". B head 8" deep dent 5'x3'. A end head shield 1'x1' dent, 2 1/2'x2' dent 2"x 8" head shield tear. BOV had a slight drip repositioned and stopped) NTSB remove jacket and inspect for tank crack - confirmed no release (5/22/19).	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
10	68	28	TILX	351793	Trinity	117R100W CPC 1232	1/2	31808	T12145	4/25/2013	NO	BL dent 3'x2' and 5" deep. BL body bolster crushed to tank. A end head 2'x2' dent at center and 1'x1' dent I side lower. Gouges at top AR.	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
11	69	29	FURX	160011	Gunderson	117J100W	9/16		?	2/1/2016	NO	AL dent 8'x7' 15" deep. A head shield 5" gouge. Brake rigging and safety appliances bent / missing.	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
	70	30	TILX	352058	Trinity	117R100W CPC 1232	1/2	31808	T12136XA	10/14/2013	NO	B end head 3'x2' dent. BR side 5'x3' dent. A&B end platforms bent up.	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
13	71	31	TILX	363454	Trinity	117J100W	9/16	30300	T17057A	8/9/2018	NO	Jacket wrinkles at all 4 corners. B End platform bent / missing.	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
14	72	32	UTLX	207573	UTC	117R100W	7/16		?	7/1/2007	NO	AR side dented 5'x8' Jacket wrinkled at corners. End platforms bent. A end head 3'x2' dent.	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
15	73	33	FURX	160024	Gunderson	117J100W	9/16		?	2/1/2016	NO	BR side dent 5'x5' body bolster bent and cut. A&B platforms bent / missing. Multihousing lid bent.	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
16	74	34	UTLX	209301	UTC	117R100W	7/16		?	9/1/2007	YES	CL side 13'x8' dent 13" deep and 2"x2" puncture. There was 19" wide scrape through dent.B head had 2'x2' dent and 3'x2' dent. A end head small dent. NTSB Coupon of puncture.	NO	YES	NO	NO	YES	NO	YES	YES	NO	YES	NO	NO	NO	NO	NO	NO	YES
17	75	35	TILX	199078	Trinity	117R100W	7/16	30145	T06021D	7/1/2007	NO	B end head 1 1/2'x1' dent. AL 8'x5' dent. AR 2'x1' dent. AL body bolster crushed to tank. Skid bent down center.	NO	NO	NO	YES	YES	NO	YES	YES	NO	NO	NO	YES	NO	NO	YES	NO	YES
18	76	36	FURX	160030	Gunderson	117J100W	9/16		?	2/1/2016	NO	A Head 4'x4' dent AL side 6'x5' dent AR side dent BL gouges in side. NTSB Hand brake wheel and head shield.	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
19	77	37	TILX	192495	Trinity	117R100W	-	30145	T05019	9/1/2005		Safety appliances bent. A end head 4'x3' dent	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
20 21	78 79	38 39	TILX	194312 363442	Trinity Trinity	117R100W 117J100W				10/1/2007 8/7/2018		Jacket wrinkled at all corners. A end head 2'x3' dent. B end stub sill torn. Safety appliances bent. BL 1'x1' dent. BR 2'x2' dent.	NO NO	NO NO	NO NO	NO NO	NO NO	NO NO	NO YES	YES YES	NO NO	NO NO	NO NO	YES NO	NO NO	NO NO	NO NO	NO NO	YES
21	80	40	UTLX	209496	UTC	1175100W		30300	11/05/A ?	6/1/2018		BL dent . AR 2'x6' dent. End platforms bent up.	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
23	81	41	TILX	191499	Trinity	117R100W		30145		8/1/2006		Jacket wrinkled at corners. Brake rigging bent.	NO	NO	NO	NO	NO	NO	Yes	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
24	82	42	TILX	199062	Trinity	117R100W		30145			NO	Rerailed and moved on own weheels4-25-19	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES
																													
			Total cars	26		+	-				23	Number of No	25	24	25	23	16	25	11	1	26	23	25	23	26	26	24	24	0
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NTSB HOLD

Breach

UPRR Derailment Fort Worth TX 4/24/2019 Cargill Ethanol Unit Train

Total Cars Derailed	26
Identified Cars Total	26
Inspected Car Total	26

Defect Description	NO	YES	Percentage of Failure
Manway Compromised	25	1	4%
Multihousing Compromised	24	2	8%
Valves Damaged	25	1	4%
Skid Damaged	23	3	12%
BOV Adaptor Sheared	16	10	38%
BOV Open	25	1	4%
BOV Handle Damaged	11	15	58%
Dis-Engageable BOV Handle	1	25	96%
Thermal Tear	26	0	0%
Mech Tear	23	3	12%
Draft sill torn off A End	25	1	4%
Draft sill torn off B End	23	3	12%
Head Brace pulled from head pad	26	0	0%
Head pad pulled from tank	26	0	0%
Body Bolster pulled from pad	24	2	8%
Bolster Pad pulled from tank	24	2	8%
Tank Breaches Identified	23	3	12%