

UPRR @ Graettinger, IA 3-10-17

Legacy	Consist Line Number	Car Mark	Car Number	Builder	Built Date	Lessee	File Number	DOT	Breach Yes / No	Breach Location / Description / Damage Description	Multihousing Compromised	Valves Damaged	BOV Adaptor Sheared	BOV Open	BOV Handle Damaged?	Manway Compromised	Thermal Tear	Head Brace pulled	Head pad pulled from tank	Tank pulled from head	Drawings Complete	
Yes	61	DBUX	301606	ARI	NA	NA	NA	111A100W1	No	Not burned Last car that derailed North End (tail end) There was no damage to this car.	No	No	No	No	No	No	No	No	No	No	Yes	
Yes	62	TILX	191239	Trinity	2/1/2005	Green Plains Logistics	T04038	111A100W1	No	Not burned 3/14/2017 COC sent. There was no damage to this car body, one set of wheels only was off of the rail. The body never touched the ground	No	No	No	No	No	No	No	No	No	No	Yes	
Yes	63	TILX	199168	Trinity	1/1/2008	Green Plains Logistics	T06021Y	111A100W1	No	Burned 3/14/2017 COC sent. This car was barely damaged no damage to the tank shell or valves was found. The BL corner was exposed to heat or fire the paint is burnt off in this location.	No	No	No	No	Yes	No	No	No	No	No	Yes	
Yes	64	TILX	197615	Trinity	2/1/2008	Green Plains Wood River	T06061	111A100W1	No	3/14/2017 COC Sent B - End coupler knuckle is broken. The B - End stub sill seperated at the head brace, stress is seen at the brace to pad weld on the BL corner of the head brace.	No	No	No	No	No	No	No	No	No	No	Yes	
Yes	65	CTCX	731997	ARI	3/1/2009		101-501551	111A100W1	Yes	Burned This car was ARI built not Trinity. This car had 5 tears in the A - End head. There is an approximate 10' dent in the bottom of the tank. The BOV adaptor has been sheared, the bov remained closed and the handle is present.	No	No	Yes	No	No	No	No	No	NO	No	Yes	
Yes	66	TILX	195386	Trinity	12/1/2007	Green Plains Logistics	T06021D	111A100W1	No	Burned 3/14/2017 COC sent. There is a dent in the right side center of car approximately 6' X 5'. There is additional denting in both heads the A - End head has adent approximatly 6'X5' and the B - End head has one 7' X 5'. There is a crease and dent on the Ring 1 left side at 10:00.	No		No	No	Yes	No	No	No	Yes	No	Yes	
Yes	67	CTCX	731383	Trinity	9/23/2008	Direct Sale	T08076	111A100W1	YES	Burned This car was in fire and burned on the B - End of the car. The B - End of the car contacted TILX 199819 tearing a hole in that car and significantly denting the B - End head of this car. The AL bottom cover plate has a mechanical tear. There is a mechanical tear in the #3 Ring right side of the tank, a fracture follows down the tank through the reinforcement bars at the edge of the skid. The BOV adaptor is sheared, handle missing, and the ball is partially open. The BOV skid was challenged and bent, something contacted the BOV but it did not shear.	No	No	Yes	Yes	Yes	No	No	No	No	No	Yes	
Yes	68	TILX	195202	Trinity	8/1/2007	Green Plains Logistics	T06021Z	111A100W1	Yes	Burned 3/14/2017 COC sent. The BR side of the car has deformation, there is a bulge in this area and an approximate 18" long hot tear. The BOV was found open, the seats have been melted and the ball moves freely. The adaptor has been sheared and the handle has been	No	No	Yes	Yes	Yes	No	Yes	No	No	No	Yes	
Yes	69	TILX	199819	Trinity	2/1/2007	Green Plains Logistics	T06021B	111A100W1	Yes	Burned 3/14/2017 COC sent. This car was damaged by an adjacent car cutting through the shell and deforming additional shell material. The opening was estimated at 96" X 120" with an additional 6' X 10' of deformation adjacent to the hole.	No	No	Yes	No	Yes	No	No	No	No	No	Yes	
Yes	70	WCHX	30098	ARI	NA	NA	NA	111A100W1	No	Burned This car has deformation down the right side from A to the center of the car it is not severe. The manway was intact but there two eye bolts completely missing. The PRD and Multi-housing were also intact. Flames were filmed coming from the PRD and the Multi-Housing eventhough the Multihousing lid was closed. BOV was leaking but not	No	No	Yes	No	No	No	No	No	No	No	Yes	
Yes	71	WCHX	30078	ARI	NA	NA	NA	111A100W1	Yes	Burned This car was opened up when contact was made with TAEX 2909, the coupler from TAEX ripped an opening from the A head to just past the #5 Ring. The Multi-housing, PRD, and Manway are in tact. The Manway has one bolt that is loose it is unknown how this happened.	No	No	Yes	No	No	No	No	No	No	No	Yes	
Yes	72	TAEX	2909	Trinity	5/19/2005	NA	T04078	111A100W1	Yes	Burned 3/14/2017 COC sent. The A tank head was pulled from the head pad during contact with another tank. Both Stub sills were bent, there is a 10" X 11" hole in the B - End head.	No	No	Yes	No	Yes	No	No	No	Yes	Yes	Yes	
Yes	73	DBUX	302746	Trinity	7/18/2007	Direct Sale	T06094Y	111A100W1	No	Burned 3/14/2017 COC sent. Continual defomration down the right side it is not severe, There is a small 6" crease ring 5 from the bottom coming up the side at a diagonal direction. The A - End stub still is torn at the striker and rear of the sill. The BOV was found closed, the adaptor has sheared, and the handle is missing. The PRD, Multi-housing, and Manway are all in tact.	No	No	Yes	No	Yes	No	No	No	No	No	No	Yes
Yes	74	DBUX	302834	Trinity	7/26/2007	Direct Sale	T06094Y	111A100W1	YES	Car torn in half and Burned 3/14/2017 COC Sent. The two halve were located and one had the PRD which was in tact, the barrel was flattened at the tear. The second half had the manway and multi-housing. The Manway was intact and the multi-housing had been damaged and the 2" and 3" valves were missing from teh nipples.	Yes	Yes				No	No	No	No	No	Yes	
Yes	75	TILX	197694	Trinity	2/1/2008	Green Plains Logistics	T06061	111A100W1	YES	Car torn in half and Burned 3/14/2017 COC Sent. Both ends were flattend at the tear. The Section with the Multihousing, PRD, and Manway were missing condition is unknown.							No	No	No	No	Yes	

Legacy	Consist Line Number	Car Mark	Car Number	Builder	Built Date	Lessee	File Number	DOT	Breach Yes / No	Breach Location / Description / Damage Description	Multihousing Compromised	Valves Damaged	BOV Adaptor Sheared	BOV Open	BOV Handle Damaged?	Manway Compromised	Thermal Tear	Head Brace pulled	Head pad pulled from tank	Tank pulled from head	Drawings Complete	
Yes	76	CTCX	732108	ARI	NA	NA	NA	111A100W1	Yes	Burned this car has a dent in the top of the B - End head 2.5' X 3', the A - End striker is torn. AL ring 5 there is a large mechanical tear 28" X16". There is continual deformation from the B - End of the car on the left side to the number 5 ring. the right side has continual deformation along the bottom of the car. The car was in the fire, there is a large opening at the number 3 ring on the left side that is approximately 10'. There is a third opening that was used for unloading the remaining ethanol from the car.	Yes	Yes	Yes	No	No	No	No	No	No	No	Yes	
Yes	77	TCBX	198194	Trinity	1/1/2008	NA	T06021D	111A100W1	Yes	Burned 3/14/2017 COC sent. Tank head A - End was damaged a 24" X 15" holes is in the center of the head. It is unknown if the BOV handle was damaged the car was laying on that area.	No	No	No	No	No	No	No	No	No	No	Yes	
Yes	78	TILX	199147	Trinity	12/1/2007	Green Plains Logistics	T06021D	111A100W1	Yes	Burned, 3/14/2017 COC sent. There are two holes in the A - End head, one is approximately 24" X 12". The second is 12" X 9". The Manway, Multi-housing, and PRD appear to be in tact. There is a loose bolt on the manway but it has fresh tool marks, the multi-housing is in good working condition but is opened.	No	No	Yes	No	Yes	No	No	No	No	No	No	Yes
Yes	79	TAEX	2893	Trinity	2/18/2000	NA	9954	111A100W1	No	Burned 3/14/2017 COC sent. The Right side Ring 2 and Ring 3 there is an approximate 10' X 8' dent. The B - End head has a small 3' X 4' dent. The BOV is open and plugged using a wooden plug, the handle is missing and the adaptor has been sheared. The top fittings are all intact. The A - End stub still is ripped and torn. the BOV skid was damaged and that left the BOV exposed to a direct hit. the BOV was not sheared at the	No	No	Yes	Yes	Yes	No	No	No	No	No	No	Yes
Yes	80	DBUX	301674	ARI	NA	NA	NA	111A100W1	No	Burned 21st car 1st car that derailed south end. This car the 2" vapor valve nipple disconnected from the multi-housing plate but still chainged to the plate provided escape path. There was deformation at the Ring 2 and Ring 3 on the right side, approximate length 180" X 72".	Yes	Yes	No	No	No	No	No	No	No	No	Yes	
20				20					9	Number of No	16	15	7	15	6	19	19	20	18	19	0	
									11	Number of Yes	3	3	11	3	9	0	1	0	2	1	20	

UPRR Derailment Graettinger, IA 3-10-17

Total Cars Derailed	20
Identified Cars Total	20
Inspected Car Total	

Defect Description	Yes	No	Percentage of Failure
Tank Breached	11	9	55%
Multihousing Lid Damaged	3	16	15%
Multihousing Valves Damaged	3	15	15%
BOV adaptor Sheared.	11	7	55%
BOV Open	3	15	15%
BOV Handle Damaged	9	6	45%
Manway Compromised	0	19	0%
Thermal Tear	1	19	5%
Head brace pulled from head pad	0	20	0%
Head pad pulled from tank	2	18	10%
Tank pulled from head pad	1	19	5%
Hand Drawings Completed	20	0	100%