



**RAILROAD SIGNAL & TRAIN CONTROL GROUP  
ATTACHMENT # 10  
UP Railroad – Defect Detector Log**

**HWY-13-MH-003  
Midland, TX  
(8 Pages)**

T561 HBD ZLCAI.14.txt

DETAIL TRAIN REPORT

11-15-12 20:03

BOUNCE T561 11-15-12 16:30 CT 3 ENG 63 CARS 308 AXLES 7210 FT  
 49 MPH EB MICRO SEQ: 2660 TRAIN ID: ZLCAI 14 AMBIENT TEMP: 71 SITE DIR: E  
 NORTH MEAN TEMP: 34 F SOUTH MEAN TEMP: 36 F CAL:\*\*\*\* MM = \*\*\* F  
 ALARMS: HB=N WA=N DE=N AUX=N INT=N WIND=N TEMP=N HW=N  
 PROCESSOR TYPE = SENTRY SCANNER TYPE = 2058 TO-1 = 308 TO-2 = 308  
 ABS= 190 DIFF= 117 CARSIDE SLOPE=2.30 CARSIDE LOWLIM= 120 WIND ALARM(MPH)= 50

ENG	LENGTH	AXLE	*** AXLE TEMPERATURE (DEG F) ***								ALARMS
			N	S	N	S	N	S	N	S	
1	72	B 1	8	8	5	4	7	4	8	10	
		W	****	****	****	****	****	****	****	****	
		B 5	8	9	8	9					
		W	****	****	****	****					
2	74	B 7	16	20	23	20	15	16	15	16	
		W	****	****	****	****	****	****	****	****	
		B 11	8	16	9	4					
		W	****	****	****	****					
3	71	B 13	16	11	8	8	11	12	14	10	
		W	****	****	****	****	****	****	****	****	
		B 17	9	8	11	7					
		W	****	****	****	****					

CAR	LENGTH	AXLE	*** AXLE TEMPERATURE (DEG F) ***								ALARMS
			N	S	N	S	N	S	N	S	
1	103	B 19	44	40	38	43	49	52	43	49	
		W	****	****	****	****	****	****	****	****	
2	101	B 23	45	52	44	48	43	54	36	42	
		W	****	****	****	****	****	****	****	****	
3	101	B 27	43	40	45	40	55	49	42	42	
		W	****	****	****	****	****	****	****	****	
4	101	B 31	44	56	35	41	42	42	52	36	
		W	****	****	****	****	****	****	****	****	
5	101	B 35	18	23	47	38	44	45	37	42	
		W	****	****	****	****	****	****	****	****	
6	101	B 39	37	47	40	45	34	34	44	41	
		W	****	****	****	****	****	****	****	****	
7	101	B 43	20	31	47	29	51	52	31	44	
		W	****	****	****	****	****	****	****	****	
8	101	B 47	38	40	32	40	34	40	25	34	
		W	****	****	****	****	****	****	****	****	
9	101	B 51	20	17	42	42	63	57	41	47	

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		W		****	****	****	****	****	****	****
31	295	B 139	42	42	25	40	17	24	37	37
		W	****	****	****	****	****	****	****	****
		B 143	42	30	34	28	42	44	43	42
		W	****	****	****	****	****	****	****	****
		B 147	29	34	48	38	31	37	20	23
		W	****	****	****	****	****	****	****	****
32	101	B 151	44	34	32	35	57	50	42	48
		W	****	****	****	****	****	****	****	****
33	102	B 155	50	47	36	43	37	42	34	38
		W	****	****	****	****	****	****	****	****
34	101	B 159	24	28	28	25	42	47	40	36
		W	****	****	****	****	****	****	****	****
35	101	B 163	35	47	34	20	29	40	47	41
		W	****	****	****	****	****	****	****	****
36	101	B 167	22	36	25	34	34	38	38	42
		W	****	****	****	****	****	****	****	****
37	100	B 171	30	48	25	31	42	40	28	29
		W	****	****	****	****	****	****	****	****
38	100	B 175	4	22	23	22	34	42	25	37
		W	****	****	****	****	****	****	****	****
39	101	B 179	49	42	35	47	32	32	35	25
		W	****	****	****	****	****	****	****	****
40	76	B 183	34	47	40	34	42	34	8	9
		W	****	****	****	****	****	****	****	****
41	293	B 187	30	47	35	36	36	34	62	50
		W	****	****	****	****	****	****	****	****
		B 191	34	40	43	45	42	42	34	32
		W	****	****	****	****	****	****	****	****
		B 195	42	42	8	24	16	28	24	28
		W	****	****	****	****	****	****	****	****
42	77	B 199	47	37	37	37	34	38	34	31
		W	****	****	****	****	****	****	****	****
43	77	B 203	23	36	38	49	35	44	34	38
		W	****	****	****	****	****	****	****	****
44	96	B 207	16	25	30	29	37	34	34	34
		W	****	****	****	****	****	****	****	****
45	96	B 211	25	16	36	37	36	32	38	29
		W	****	****	****	****	****	****	****	****
46	295	B 215	43	31	27	28	35	37	23	38
		W	****	****	****	****	****	****	****	****
		B 219	22	25	34	38	25	29	50	51
		W	****	****	****	****	****	****	****	****
		B 223	30	40	43	40	24	23	34	25
		W	****	****	****	****	****	****	****	****
47	102	B 227	37	49	44	41	31	28	30	41
		W	****	****	****	****	****	****	****	****

	W		****	****
6	B 307	8	8	
	W	****	****	
6	B 308	5	7	
	W	****	****	

STANDARD DEVIATION OF NORTH SIDE TEMPS: 12  
 AXLE NUMBER: 99 HAS THE HIGHEST NORTH SIDE TEMPERATURE OF 67  
 IT IS 2.63 STANDARD DEVIATIONS FROM THE MEAN  
 NORTH MEAN TEMPERATURE = 34

STANDARD DEVIATION OF SOUTH SIDE TEMPS: 12  
 AXLE NUMBER: 99 HAS THE HIGHEST SOUTH SIDE TEMPERATURE OF 65  
 IT IS 2.49 STANDARD DEVIATIONS FROM THE MEAN  
 SOUTH MEAN TEMPERATURE = 36

COMMENTS  
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\*\*\* 6 AXLES WERE NOT MATCHED

WHEEL GATE ON COUNT = 308  
 WHEEL GATE OFF COUNT = 308

INTEGRITY FAILURES/WARNINGS  
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TRAIN STOP REMARKS  
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NORTH MEAN TEMPERATURE = 34

t582.txt

DETAIL TRAIN REPORT

11-15-12 20:00

ARCADE T582 11-15-12 16:02 CT 3 ENG 63 CARS 308 AXLES 7246 FT  
 61 MPH EB MICRO SEQ: 3813 TRAIN ID: ZLCAI 14 AMBIENT TEMP: 71 SITE DIR: E  
 NORTH MEAN TEMP: 30 F SOUTH MEAN TEMP: 23 F CAL:\*\*\*\* MM = \*\*\* F  
 ALARMS: HB=N WA=N DE=N AUX=N INT=N WIND=N TEMP=N HW=N  
 PROCESSOR TYPE = SENTRY SCANNER TYPE = 2058 TO-1 = 308 TO-2 = 308  
 ABS= 190 DIFF= 117 CARSIDE SLOPE=2.30 CARSIDE LOWLIM= 120 WIND ALARM(MPH)= 50

ENG	LENGTH	AXLE	*** AXLE TEMPERATURE (DEG F) ***								ALARMS
			N	S	N	S	N	S	N	S	
1	74	B 1	4	3	3	3	4	3	4	8	
		W	****	****	****	****	****	****	****	****	
		B 5	7	5	5	8					
		W	****	****	****	****					
2	76	B 7	24	21	30	22	23	16	20	18	
		W	****	****	****	****	****	****	****	****	
		B 11	10	23	9	4					
		W	****	****	****	****					
3	73	B 13	14	11	8	8	11	8	12	11	
		W	****	****	****	****	****	****	****	****	
		B 17	9	4	10	3					
		W	****	****	****	****					

CAR	LENGTH	AXLE	*** AXLE TEMPERATURE (DEG F) ***								ALARMS
			N	S	N	S	N	S	N	S	
1	105	B 19	38	21	38	30	45	37	38	31	
		W	****	****	****	****	****	****	****	****	
2	104	B 23	44	38	40	30	42	41	31	28	
		W	****	****	****	****	****	****	****	****	
3	104	B 27	36	16	32	22	51	38	38	27	
		W	****	****	****	****	****	****	****	****	
4	103	B 31	40	42	28	24	35	29	38	22	
		W	****	****	****	****	****	****	****	****	
5	103	B 35	9	5	38	22	42	34	32	24	
		W	****	****	****	****	****	****	****	****	
6	102	B 39	31	34	37	31	30	22	35	24	
		W	****	****	****	****	****	****	****	****	
7	102	B 43	10	14	38	17	49	37	27	30	
		W	****	****	****	****	****	****	****	****	
8	102	B 47	34	29	30	25	30	24	18	18	
		W	****	****	****	****	****	****	****	****	
9	102	B 51	8	5	36	24	57	43	36	27	
		W	****	****	****	****	****	****	****	****	

t582.txt

		B 143	34	16	31	18	36	30	41	25
		W	****	****	****	****	****	****	****	****
		B 147	24	21	40	25	25	24	16	16
		W	****	****	****	****	****	****	****	****
32	101	B 151	34	11	25	17	51	38	35	29
		W	****	****	****	****	****	****	****	****
33	102	B 155	47	35	32	29	31	28	25	25
		W	****	****	****	****	****	****	****	****
34	101	B 159	16	15	23	16	41	34	32	23
		W	****	****	****	****	****	****	****	****
35	101	B 163	34	31	31	12	34	24	40	23
W		****	****	****	****	****	****	****		
36	100	B 167	14	21	21	17	32	28	36	28
		W	****	****	****	****	****	****	****	****
37	100	B 171	30	30	23	17	36	27	24	17
		W	****	****	****	****	****	****	****	****
38	99	B 175	3	5	16	10	34	32	27	28
		W	****	****	****	****	****	****	****	****
39	102	B 179	44	30	29	32	27	23	14	18
		W	****	****	****	****	****	****	****	****
40	77	B 183	25	23	30	15	42	23	4	4
		W	****	****	****	****	****	****	****	****
41	292	B 187	22	29	40	25	32	24	58	42
		W	****	****	****	****	****	****	****	****
		B 191	25	24	47	30	38	27	27	18
		W	****	****	****	****	****	****	****	****
		B 195	40	25	5	9	11	16	24	18
		W	****	****	****	****	****	****	****	****
42	77	B 199	42	17	32	21	30	29	27	21
		W	****	****	****	****	****	****	****	****
43	77	B 203	8	16	32	28	30	27	31	22
		W	****	****	****	****	****	****	****	****
44	96	B 207	10	10	27	16	32	21	28	21
		W	****	****	****	****	****	****	****	****
45	99	B 211	18	5	34	25	30	20	32	17
		W	****	****	****	****	****	****	****	****
46	298	B 215	34	17	22	20	35	24	20	24
		W	****	****	****	****	****	****	****	****
		B 219	16	15	28	28	22	17	50	35
		W	****	****	****	****	****	****	****	****
		B 223	25	24	42	25	20	15	34	17
		W	****	****	****	****	****	****	****	****
47	103	B 227	29	27	38	24	28	20	27	29
		W	****	****	****	****	****	****	****	****
48	102	B 231	34	25	34	24	48	25	32	27
		W	****	****	****	****	****	****	****	****
49	102	B 235	11	5	30	24	44	37	42	28

6 B 308 3 4  
W \*\*\*\* \*\*

STANDARD DEVIATION OF NORTH SIDE TEMPS: 12  
AXLE NUMBER: 98 HAS THE HIGHEST NORTH SIDE TEMPERATURE OF 60  
IT IS 2.46 STANDARD DEVIATIONS FROM THE MEAN  
NORTH MEAN TEMPERATURE = 30

STANDARD DEVIATION OF SOUTH SIDE TEMPS: 9  
AXLE NUMBER: 122 HAS THE HIGHEST SOUTH SIDE TEMPERATURE OF 44  
IT IS 2.33 STANDARD DEVIATIONS FROM THE MEAN  
SOUTH MEAN TEMPERATURE = 23

COMMENTS  
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\*\*\* 6 AXLES WERE NOT MATCHED

WHEEL GATE ON COUNT = 308  
WHEEL GATE OFF COUNT = 308

INTEGRITY FAILURES/WARNINGS  
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TRAIN STOP REMARKS

