

 National Transportation Safety Board					AVG	52.935	-0.066	127	152	132	120%	104%		11.1	 <i>The World's Highest Standards In Railroad Wheel Sets</i>
					MED	52.935	-0.065	129	163	142	126%	116%		11.7	
					MIN	51.477	-1.523	116	106	80	83%	62%		9.0	
					MAX	54.392	1.392	135	174	162	144%	120%		12.3	
					d	2.915	2.915	20	68	82	61%	57%		3.3	
REF	CAR	WSA	WHL SN	AXLE SN	SIDE	B-B	dB-B	OEM	BREAK	SLIDE	BREAK%	SLIDE%	SOUND	INT	NOTE
A1	162581-1	2	05523	W0304	S	54.392	1.392	116	166	136	144%	118%	medium	11.8	whl dislodged outboard; galling (cold weld) on WS
A2	162581-1	2	05987	W0304	T	54.392	1.392	129	160	148	124%	115%	none	11.5	normal looking whl position
B1	162582-1	3	07084	W0218	S	51.477	-1.523	135	174	162	129%	120%	none	12.3	normal looking whl position
B2	162582-1	3	07340	W0218	T	51.477	-1.523	128	106	80	83%	62%	none	9.0	whl dislodged inboard

REF	WSA	WHL SN	YEAR	MO	MFG	TYPE	CLASS	SIDE	BOREavg	BOREback	BOREmid	BOREfront	TAPER	OOB	BOREback0	BOREback90	BOREmid0	BOREmid90	BOREfrnt0	BOREfrnt90	d
A1	2	05523	22	12	SW	H36	C	S	8.7449	8.7458	8.7453	8.7438	2.0	0.3	8.7459	8.7456	8.7453	gall	8.7439	8.7436	2.3
A2	2	05987	22	12	SW	H36	C	T	8.7476	8.7481	8.7477	8.7470	1.2	0.3	8.7482	8.7480	8.7477	8.7476	8.7468	8.7471	1.4
B1	3	07084	22	12	SW	H36	C	S	8.7463	8.7470	8.7463	8.7457	1.4	0.1	8.7471	8.7469	8.7463	8.7462	8.7457	8.7456	1.5
B2	3	07340	22	12	SW	H36	C	T	8.7484	8.7473	8.7476	8.7502	-2.9	1.1	8.7468	8.7478	8.7475	8.7476	8.7508	8.7496	4.0

AXLE

REF	WSA	WHL SN	AXLE HEAT	AXLE SN	YEAR	MO	FORGE	SIDE	SEATavg	SEATback	SEATmid	SEATfront	TAPER	OOB	SEATback0	SEATback90	SEATmid0	SEATmid90	SEATfrnt0	SEATfrnt90	d
A1	2	05523	4C1	W0304	22	12	SSD	S	8.7567	8.7576	8.7566	8.7560	1.5	0.2	8.7577	8.7574	8.7566	8.7565	8.7561	8.7559	1.8
A2	2	05987	4C1	W0304	22	12	SSD	T	8.7591	8.7597	8.7591	8.7584	1.3	0.1	8.7597	8.7597	8.7591	8.7590	8.7585	8.7583	1.4
B1	3	07084	4C1	W0218	22	12	SSD	S	8.7586	8.7593	8.7586	8.7579	1.4	0.1	8.7593	8.7592	8.7586	8.7586	8.7578	8.7579	1.5
B2	3	07340	4C1	W0218	22	12	SSD	T	8.7573	8.7581	8.7571	8.7569	1.2	0.3	8.7583	8.7578	8.7570	8.7572	8.7569	8.7568	1.5

							AVG	0.943	37.1	-0.518	7.754	3.90	72.6
							MED	0.431	16.9	-0.065	3.344	1.77	100.0
							MIN	0.093	3.7	-5.022	2.531	0.29	1.4
							MAX	2.689	105.9	0.755	44.722	13.06	100.0
							d	2.596	102.2	5.777	42.191	12.77	98.6
REF	CAR	AXLE SN	WHL SN	SIDE	SEAT	LOC	Ra μm	Ra μ-in	Rsk	Rku	Rmr50%	Rmr5	
1	162581-1	W0304	05523	S	I	outboard	0.260	10.2	-2.545	14.642	1.10	100.0	
2	162581-1	W0304	05523	S	I	inboard	0.671	26.4	-5.022	44.722	2.13	98.1	
3	162581-1	W0304	05523	S	I	OEM	2.263	89.1	0.131	4.261	13.06	1.4	
4	162581-1	W0304	05987	T	I	outboard	0.156	6.1	0.545	2.681	0.72	100.0	
5	162581-1	W0304	05987	T	I	inboard	0.276	10.9	-0.252	2.894	0.92	100.0	
6	162581-1	W0304	05987	T	I	OEM	2.365	93.1	0.668	2.966	9.00	11.4	
7	162582-1	W0218	07084	S	I	outboard	0.093	3.7	-0.225	3.085	0.29	100.0	
8	162582-1	W0218	07084	S	I	inboard	0.475	18.7	-0.075	4.384	2.10	100.0	
9	162582-1	W0218	07084	S	I	OEM	2.689	105.9	0.755	2.531	9.82	14.8	
10	162582-1	W0218	07340	T	I	outboard	0.386	15.2	-0.243	4.191	1.43	100.0	
11	162582-1	W0218	07340	T	I	inboard	0.232	9.1	-0.054	3.599	1.03	100.0	
12	162582-1	W0218	07340	T	I	OEM	1.445	56.9	0.099	3.088	5.16	45.7	