



Brake Dynamometer Test Report

Link Test Report :	210607-02
Test Description:	D465 Left Front SAE J2522
Customer Reference:	SAE J2522
Program :	Link3000
Platform:	D465 Left Front
Lining Material:	P21
Test Date:	06/07/2021

Requested By:

Zhongshan Safety Auto Parts Co.,Ltd.
Li dongwei

Tested By:

Testing Coordination and Facility
Link Transportation Testing Technology (Shanghai) Co., Ltd
Building No.2, 778 Zhao Xian Road, Jiading District, Shanghai
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D465 Left Front SAE J2522

Test Information

Customer Name	Zhongshan Safety Auto Parts Co.,Ltd.
Test Procedure	SAE J2522.SPT
Program Number	SAE J2522
Test Coordinator	Dong han
Technician	Yi
Dynamometer	Link3000
Start and end dates	06/07/2021-06/08/2021
Datalog, Template version	3.3 , 1.16

Dynamometer Information

Rolling Radius	308.0 mm
Actual Wheel Load	kg
Required Inertia	63.5 kg·m ²
Actual Inertia	63.6kg·m ²

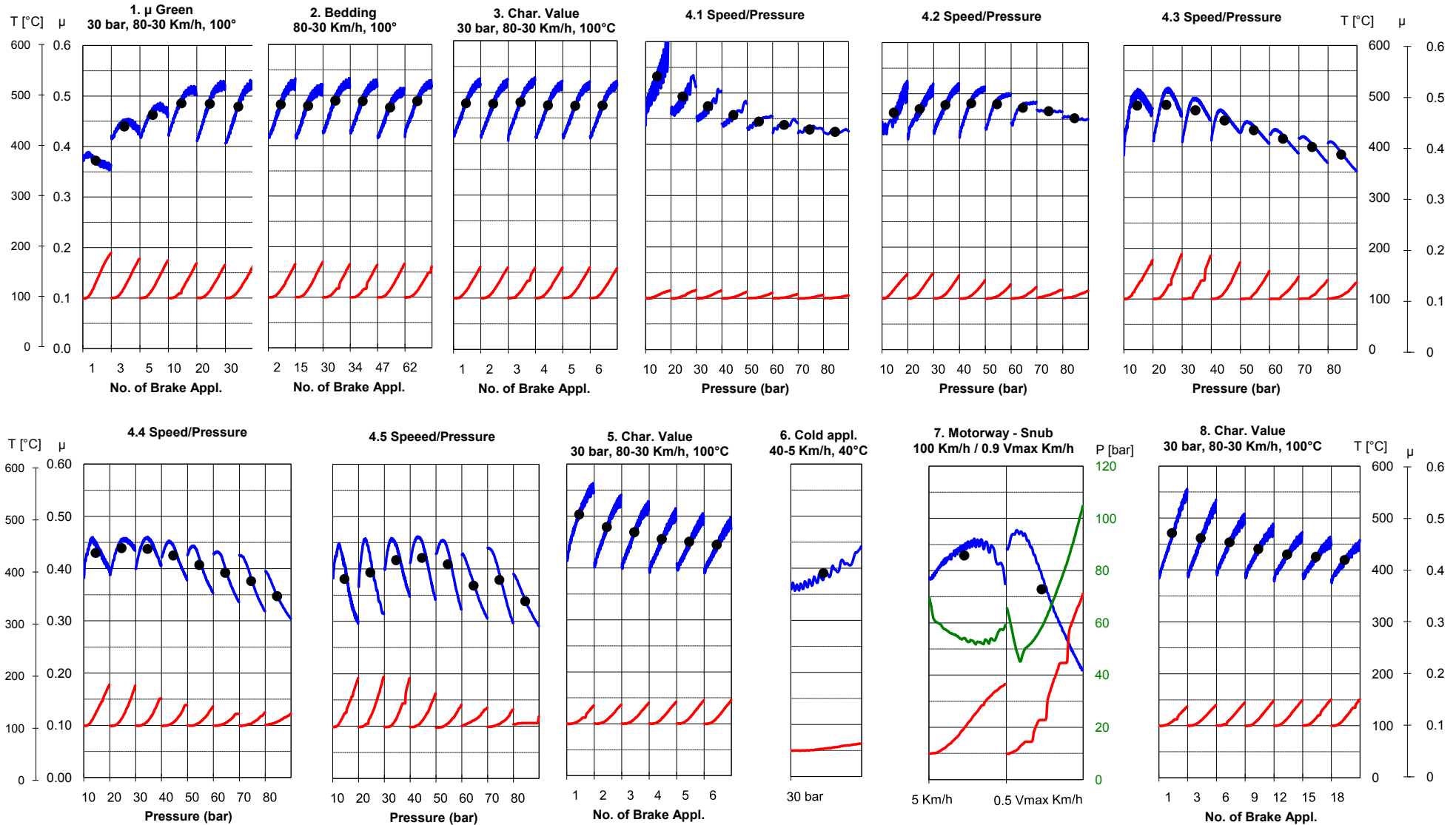
Brake Information

Brake Platform	D465 Left Front
Brake Type	
Brake Size	mm
Rotor ID Number Drum/	20210502-4A
Rotor Type	Disc
Pri/Lead/Inner Lining	P21
Sec/Trail/Outer Lining	P21
Orientation	Left
Effective Radius	107.5mm
Number of Pistons/Cyls	1
Coefficient Multiplier	0.0126
Piston Diameter Holdoff	55.0mm
Pressure	100 kPa

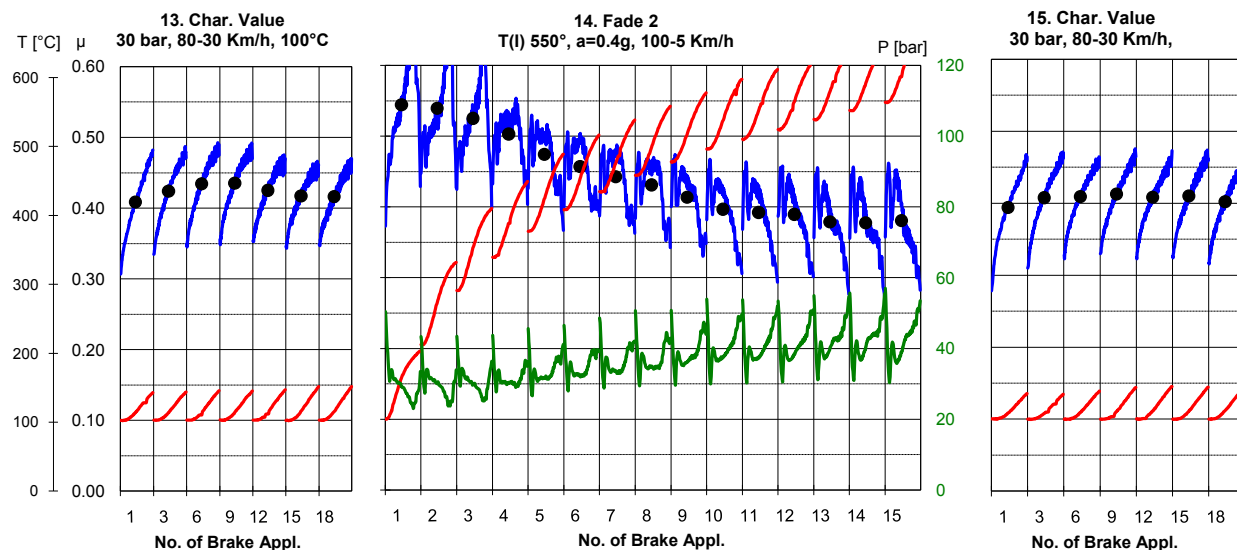
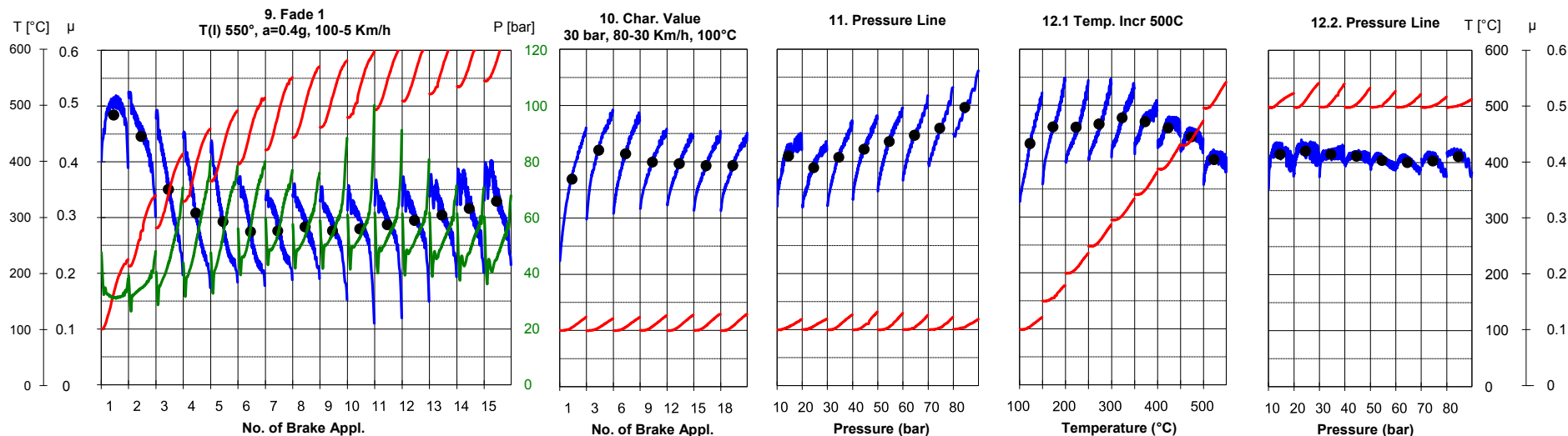
Approved by: Dong han

Signature: 

Date 06/08/2021



		SAE J2522- AK Master		Additional Information	
		Disc:	Project: 210607	Inertia: 63.6 kg·m ²	Disc Ref No.
Material: P21		Caliper:	Date: 06/07/21	Ap: 2,376 mm ²	Disc State Used
Batch: SFT	Schedule:	Test No.:	Dyno: Link3000	R eff: 108 mm	Ra (μm): 0.00 / 0.00
				R tyre: 308 mm	Runout 0.05 mm



Characteristic values μ			Avg.	Min.
Char. Value	(3)	μ _{OP6}	0.48	
Speed/Pressure	(4.3)	μ _{v120}	0.47	
Speed/Pressure	(4.5)	μ _{vmax}	0.41	
Char. Value	(5)	μ _{OP6}	0.47	
40°C Brake Appl.	(6)	μ _{T40}	0.39	
Motorway Appl. 2	(7)	μ _{MW2}	0.36	
Char. Value	(8)	μ _{OP18}	0.44	
Fade 1	(9)	μ _{F1}		0.28
Char. Value	(10)	μ _{OP18}	0.40	
Temperature	(12)	μ _{T500}		0.40
Char. Value	(13)	μ _{OP18}	0.43	
Fade 2	(14)	μ _{F2}		0.38
Char. Value	(15)	μ _{OP18}	0.41	
			μ _{nom}	0.43
			μ _{min}	0.28

SAE J2522- AK Master

Inertia: 63.6 kg·m²

Material: P21

Batch:SFT

Schedule:

Disc:

Caliper:

Test No.:

Project: 210607

Date: 06/07/21

Dyno: Link3000

Ap: 2,376 mm²

R eff: 108 mm

R tyre: 308 mm

Inner Pad

0.89 mm

13.6 g

Outer Pad

0.81 mm

12.4 g

Disc

0.00 mm

0

Test Req #:	D465 FRONT 210607	Link Transportation Testing Technology (Shanghai) Co., Ltd Brake Dynamometer Testing
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Stop	Brake Speed kph	Release Speed kph	Cycle Time sec	Decel Torque m/s ²	Min Torque N·m	Avg Torque Dist N·m	Max Torque N·m	Avg Pres Dist kPa	Avg μ Time	Init Rotor °C	Final Rotor °C
6.1 Green Characteristic at 63.5 kg·m²											
1	80.0	30.1	27.3	2.72	513	563	602	2950	0.37	100	190
2	80.0	30.1	102.0	3.02	546	623	666	2946	0.41	100	182
3	80.0	30.1	117.5	3.21	571	659	712	2942	0.44	100	180
4	80.0	30.0	121.6	3.30	571	676	738	2940	0.45	100	177
5	80.0	30.1	122.3	3.38	578	690	761	2940	0.46	101	176
6	80.0	30.0	122.4	3.41	577	695	775	2940	0.47	100	174
7	80.0	30.1	122.5	3.47	580	706	794	2938	0.48	100	172
8	80.0	30.0	124.4	3.48	587	708	798	2939	0.48	101	172
9	80.0	30.1	125.5	3.51	583	712	806	2938	0.48	100	169
10	80.0	30.1	124.0	3.54	589	720	815	2937	0.49	100	170
11	80.0	30.0	124.2	3.52	584	715	814	2938	0.48	100	170
12	80.0	30.2	122.8	3.54	589	718	820	2936	0.49	100	169
13	80.0	30.1	123.1	3.54	585	717	822	2938	0.48	100	169
14	80.0	30.0	123.6	3.53	583	715	821	2938	0.48	100	169
15	80.0	30.1	124.6	3.54	579	717	825	2937	0.48	100	168
16	80.0	30.1	125.9	3.58	587	725	835	2936	0.49	100	167
17	80.0	30.1	122.5	3.56	582	720	831	2937	0.49	101	168
18	80.0	30.2	123.4	3.51	577	711	825	2938	0.48	100	167
19	80.0	30.1	124.2	3.51	574	710	825	2938	0.48	100	168
20	80.0	30.1	123.4	3.54	576	716	832	2938	0.49	101	166
21	80.0	30.1	124.2	3.52	572	711	831	2938	0.48	100	167
22	80.0	30.1	123.4	3.57	578	722	841	2937	0.49	100	165
23	80.0	30.1	122.0	3.52	572	712	834	2939	0.48	101	166
24	80.0	30.1	124.3	3.56	578	719	845	2937	0.49	100	165
25	80.0	30.1	124.0	3.51	568	709	834	2938	0.48	100	167
26	80.0	30.1	123.5	3.51	569	708	836	2938	0.48	100	165
27	80.0	30.1	122.0	3.57	576	721	846	2937	0.49	100	163
28	80.0	30.1	124.2	3.55	574	716	845	2938	0.49	100	164
29	80.0	30.1	123.6	3.56	577	720	850	2936	0.49	100	164
30	80.0	30.1	122.2	3.50	567	707	838	2940	0.48	100	165
6.2 Burnish at 63.6 kg·m²											
1	79.9	30.1	123.0	1.72	251	347	428	1476	0.47	100	176
2	80.0	30.1	125.0	3.52	580	711	835	2938	0.48	100	165
3	80.0	30.1	124.1	1.74	254	351	440	1476	0.47	100	177
4	79.9	30.1	126.1	2.05	313	413	511	1760	0.47	100	177
5	80.0	30.1	124.4	2.59	411	523	634	2144	0.49	101	176
6	80.0	30.0	124.4	4.48	746	912	1019	3732	0.48	100	162
7	80.0	30.1	122.9	1.70	249	342	430	1476	0.46	100	178
8	80.0	30.1	124.8	3.07	502	620	741	2549	0.48	100	171
9	80.0	30.0	124.0	2.09	323	421	526	1760	0.48	100	176
10	80.0	30.1	125.7	4.07	666	825	943	3324	0.49	100	164
11	80.0	30.1	123.1	1.70	249	342	431	1476	0.46	100	177
12	80.0	30.1	124.6	3.03	494	612	728	2551	0.48	100	173
13	80.0	30.1	124.0	1.70	249	343	432	1476	0.46	100	177
14	80.0	30.1	125.5	2.59	413	523	632	2144	0.49	99	176
15	80.0	30.1	124.2	3.50	575	709	821	2938	0.48	100	171
16	80.0	30.3	124.1	5.32	936	1088	1181	4513	0.48	101	152
17	80.0	30.1	123.4	2.99	485	603	726	2551	0.47	100	170
18	80.0	30.2	125.9	5.93	1072	1214	1303	5024	0.48	99	146
19	80.0	30.1	127.1	2.46	391	496	605	2146	0.46	100	170

Test Req #:	D465 FRONT 210607	Link Transportation Testing Technology (Shanghai) Co., Ltd Brake Dynamometer Testing
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Stop	Brake Speed kph	Release Speed kph	Cycle Time sec	Decel Torque m/s ²	Min Torque N·m	Avg Torque N·m	Max Torque N·m	Avg Pres Dist kPa	Avg μ Time	Init Rotor °C	Final Rotor °C
20	80.0	30.1	127.7	2.01	315	406	498	1760	0.46	100	171
21	80.0	30.2	127.1	5.00	864	1018	1124	4121	0.49	100	150
22	80.0	30.0	124.0	1.73	260	350	441	1475	0.47	100	171
23	80.0	30.1	124.9	2.05	316	414	511	1760	0.47	100	170
24	79.9	30.1	125.8	5.42	960	1109	1200	4511	0.48	100	150
25	80.0	30.1	128.1	3.02	482	609	742	2551	0.48	100	167
26	80.0	30.1	125.2	1.72	253	346	434	1476	0.47	100	171
27	79.9	30.1	124.5	4.08	682	827	945	3324	0.49	100	159
28	79.9	30.1	125.1	2.55	402	514	630	2144	0.48	100	171
29	80.0	30.1	126.4	2.11	329	425	526	1759	0.48	100	171
30	80.0	30.1	125.0	3.57	585	723	838	2936	0.49	101	166
31	80.0	30.1	123.4	2.05	315	413	507	1760	0.47	100	170
32	80.0	30.1	124.8	4.48	747	912	1019	3733	0.48	100	158
33	79.9	30.1	123.9	1.72	257	347	434	1475	0.47	101	170
34	80.0	30.1	127.8	3.56	587	722	839	2937	0.49	100	165
35	79.9	30.1	124.4	1.72	256	346	431	1475	0.47	100	170
36	80.0	30.1	124.1	2.10	321	424	519	1759	0.48	100	172
37	80.0	30.1	123.2	2.53	401	512	615	2144	0.48	101	173
38	80.0	30.2	124.2	4.44	737	903	1012	3734	0.48	100	158
39	80.0	30.1	122.4	1.70	254	343	427	1476	0.46	100	169
40	80.0	30.1	124.7	3.03	502	613	725	2551	0.48	100	169
41	80.0	30.0	124.5	2.04	316	412	505	1760	0.47	100	170
42	80.0	30.0	124.6	3.97	661	807	914	3326	0.48	100	162
43	80.0	30.1	124.9	1.71	253	345	424	1476	0.47	100	169
44	80.0	30.1	126.1	3.06	505	620	729	2551	0.48	100	168
45	80.0	30.1	124.8	1.73	255	348	428	1475	0.47	100	170
46	79.9	30.1	127.0	2.53	408	513	613	2144	0.48	100	170
47	80.0	30.2	125.1	3.47	572	704	812	2939	0.48	100	167
48	79.9	30.2	122.6	5.33	935	1088	1183	4514	0.48	100	150
49	80.0	30.0	123.7	2.97	490	602	713	2551	0.47	100	165
50	80.0	30.1	123.6	5.89	1041	1204	1298	5026	0.47	101	143
51	80.0	30.1	126.7	2.48	404	502	599	2146	0.46	100	165
52	80.0	30.1	127.5	2.05	327	416	496	1760	0.47	100	165
53	80.0	30.0	125.6	4.95	859	1008	1118	4122	0.48	100	149
54	80.0	30.1	125.8	1.75	259	353	432	1475	0.48	100	164
55	79.9	30.1	126.0	2.09	333	423	506	1759	0.48	100	164
56	79.9	30.1	125.9	5.41	946	1105	1196	4511	0.48	100	147
57	80.0	30.1	124.8	2.98	489	602	718	2551	0.47	100	163
58	80.0	30.1	128.3	1.73	260	349	424	1475	0.47	100	165
59	80.0	30.1	125.9	4.01	671	814	928	3324	0.49	100	158
60	80.0	30.1	125.2	2.55	417	516	620	2144	0.48	100	163
61	80.0	30.1	124.2	2.10	330	425	517	1759	0.48	100	166
62	80.0	30.1	126.0	3.56	591	723	835	2937	0.49	100	161
63	80.0	30.1	124.7	2.10	325	425	514	1759	0.48	100	165
64	80.0	30.1	125.8	4.52	757	920	1026	3732	0.49	100	156
6.3 Characteristic Value 1 at 63.5 kg·m²											
1	79.9	30.1	123.1	3.49	580	707	827	2938	0.48	100	162
2	80.0	30.0	124.0	3.49	572	706	822	2938	0.48	101	160
3	80.0	30.1	123.2	3.51	574	711	827	2938	0.48	101	159
4	80.0	30.2	123.2	3.47	568	701	817	2938	0.47	101	159
5	80.0	30.1	125.8	3.46	572	700	815	2938	0.47	100	159
6	80.0	30.0	123.0	3.46	572	701	819	2938	0.47	100	159

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Stop	Brake Speed kph	Release Speed kph	Cycle Time sec	Decel Torque m/s ²	Min Torque N·m	Avg Torque Dist N·m	Max Torque N·m	Avg Pres Dist kPa	Avg μ Time	Init Rotor °C	Final Rotor °C
6.4.1 Speed/Pressure Sensitivity 40kph at 63.7 kg·m²											
1	39.9	1.0	125.6	1.28	160	249	317	953	0.53	100	115
2	40.1	1.0	46.7	2.39	413	476	552	1937	0.49	100	116
3	39.9	1.0	45.2	3.44	633	691	775	2912	0.47	101	115
4	39.9	1.2	45.9	4.42	839	894	983	3891	0.46	100	113
5	39.8	1.0	46.5	5.40	1049	1099	1158	4896	0.44	101	111
6	39.9	1.2	42.3	6.39	1245	1307	1368	5885	0.44	100	108
7	39.9	1.2	48.2	7.30	1460	1500	1545	6871	0.43	100	107
8	39.9	1.3	44.1	8.28	1678	1703	1742	7885	0.42	100	106
6.4.2 Speed/Pressure Sensitivity 80kph at 63.6 kg·m²											
1	80.0	40.1	49.6	1.11	162	227	280	967	0.46	101	148
2	80.0	40.1	120.6	2.29	371	466	550	1956	0.47	100	147
3	80.0	40.1	118.0	3.48	589	709	822	2930	0.48	101	146
4	80.0	40.2	118.4	4.67	799	955	1066	3908	0.48	100	136
5	80.0	40.2	118.1	5.84	1037	1197	1289	4910	0.48	100	129
6	80.0	40.1	119.5	6.91	1286	1421	1492	5899	0.47	100	124
7	80.0	40.1	119.3	7.95	1618	1644	1671	6910	0.46	100	117
8	80.0	40.3	120.8	8.83	1807	1827	1860	7915	0.45	100	116
6.4.3 Speed/Pressure Sensitivity 120kph at 63.7 kg·m²											
1	119.9	80.0	122.5	1.16	139	238	285	968	0.48	100	178
2	120.1	80.1	166.8	2.35	364	483	554	1957	0.48	100	189
3	120.1	80.1	167.1	3.44	572	708	777	2933	0.47	100	185
4	119.9	80.0	166.0	4.38	791	906	971	3914	0.45	100	173
5	119.9	80.0	164.8	5.26	1024	1089	1150	4918	0.43	100	158
6	119.9	80.2	165.9	6.06	1170	1257	1325	5905	0.41	100	145
7	119.9	80.1	168.6	6.79	1292	1409	1495	6894	0.40	100	140
8	119.9	80.0	174.6	7.48	1415	1554	1675	7906	0.38	100	136
6.4.4 Speed/Pressure Sensitivity 160kph at 63.7 kg·m²											
1	160.0	130.0	178.2	1.03	137	212	249	965	0.43	100	179
2	160.0	130.0	174.9	2.12	337	438	492	1949	0.44	99	178
3	159.9	130.0	173.8	3.16	555	653	717	2920	0.44	99	151
4	159.9	130.2	172.7	4.09	748	847	927	3901	0.42	100	139
5	159.9	130.0	167.7	4.91	883	1019	1132	4906	0.40	100	138
6	159.9	130.2	171.9	5.67	1005	1176	1320	5893	0.39	100	122
7	160.0	130.2	175.6	6.33	1110	1315	1509	6881	0.37	100	126
8	159.9	130.2	179.3	6.70	1218	1389	1682	7902	0.34	100	124
6.4.5 Speed/Pressure Sensitivity 200kph at 63.8 kg·m²											
1	199.9	170.0	188.0	0.91	133	189	239	968	0.38	99	192
2	200.1	170.0	197.4	1.90	291	394	480	1955	0.39	98	194
3	200.1	170.1	188.3	3.01	506	623	713	2925	0.42	98	192
4	200.1	170.0	190.4	4.05	665	839	941	3902	0.42	98	163
5	199.9	170.2	194.5	4.92	793	1022	1157	4905	0.41	98	142
6	199.9	170.0	192.6	5.31	904	1101	1361	5912	0.36	99	136
7	199.9	170.1	203.9	6.36	1022	1321	1544	6878	0.37	99	132
8	200.1	170.1	216.5	6.51	1152	1347	1724	7905	0.33	99	133

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Stop	Brake Speed kph	Release Speed kph	Cycle Time sec	Decel Torque m/s ²	Min Torque N·m	Avg Torque Dist N·m	Max Torque N·m	Avg Pres Dist kPa	Avg μ Time	Init Rotor °C	Final Rotor °C
6.5 Characteristic Value 2 at 63.5 kg·m²											
1	80.0	30.1	211.3	3.67	575	741	873	2935	0.50	100	135
2	80.0	30.1	129.4	3.50	558	705	846	2938	0.48	101	137
3	79.9	30.2	127.5	3.43	557	692	824	2938	0.47	100	141
4	80.0	30.1	127.7	3.33	543	673	802	2941	0.46	100	142
5	80.0	30.1	126.7	3.29	544	666	795	2941	0.45	101	146
6	80.0	30.1	127.4	3.25	537	659	771	2941	0.44	100	146
6.6 Cold Application at 63.6 kg·m²											
1	39.9	1.2	369.9	2.85	511	566	675	2921	0.39	50	64
6.7 Motorway Application at 63.7 kg·m²											
1	100.0	1.0	150.7	5.89	1119	1229	1378	5663	0.43	50	183
2	179.9	100.2	372.7	5.68	1024	1182	1493	6532	0.36	49	359
6.8 Characteristic Value 3 at 63.5 kg·m²											
1	80.0	30.1	264.9	3.44	535	691	869	2940	0.47	100	138
2	79.9	30.1	128.1	3.41	540	685	852	2940	0.47	101	138
3	80.0	30.1	129.4	3.37	539	678	826	2939	0.46	101	141
4	80.0	30.1	130.7	3.35	535	676	803	2940	0.46	100	141
5	80.0	30.1	130.8	3.32	542	671	798	2941	0.45	100	139
6	80.0	30.1	126.9	3.31	544	670	785	2941	0.45	101	145
7	80.0	30.1	130.5	3.28	537	663	774	2941	0.45	100	146
8	80.0	30.1	129.8	3.25	529	658	763	2941	0.44	101	147
9	80.0	30.2	131.1	3.22	535	652	757	2941	0.44	100	148
10	80.0	30.1	128.4	3.19	529	647	748	2942	0.44	100	149
11	80.1	30.1	127.3	3.17	522	644	740	2942	0.43	100	149
12	79.9	30.0	127.3	3.14	524	638	733	2942	0.43	101	150
13	79.9	30.0	126.7	3.13	529	637	732	2941	0.43	101	150
14	79.9	30.1	128.3	3.12	529	634	723	2943	0.43	100	150
15	79.9	30.1	125.0	3.11	526	632	722	2943	0.43	101	151
16	80.0	30.1	127.3	3.09	518	628	713	2942	0.42	100	151
17	80.1	30.1	126.6	3.09	521	628	716	2943	0.42	100	151
18	80.0	30.2	127.6	3.06	521	623	711	2944	0.42	100	151
6.9 Fade 1 at 63.7 kg·m²											
1	100.0	1.0	151.9	3.93	712	821	1028	3326	0.49	100	225
2	99.9	1.0	15.4	3.89	654	808	1066	3365	0.45	213	340
3	100.0	1.0	36.1	3.84	621	799	1088	4096	0.36	282	414
4	100.1	1.0	44.5	3.83	623	797	1074	4644	0.32	330	459
5	100.0	1.2	43.6	3.84	632	797	1100	4928	0.30	367	492
6	100.0	1.0	42.9	3.86	669	805	1063	5297	0.28	397	515
7	100.0	1.0	42.6	3.88	693	810	1040	5335	0.28	422	551
8	100.0	1.0	42.7	3.87	688	809	1041	5214	0.29	445	571
9	100.1	1.0	41.6	3.85	665	809	1054	5295	0.28	463	582
10	100.0	1.0	39.7	3.82	552	812	1068	5214	0.29	481	599
11	100.0	1.0	40.1	3.84	540	814	1105	5117	0.30	496	610
12	100.0	1.0	38.5	3.86	598	813	1098	5023	0.30	510	622
13	100.1	1.2	38.0	3.89	639	817	1087	4920	0.31	524	629
14	100.0	1.2	36.1	3.89	630	817	1101	4728	0.32	536	635
15	100.0	1.0	35.8	3.89	638	818	1084	4551	0.34	547	643

Test Req #:	D465 FRONT 210607	Link Transportation Testing Technology (Shanghai) Co., Ltd Brake Dynamometer Testing
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Stop	Brake Speed kph	Release Speed kph	Cycle Time sec	Decel Torque m/s ²	Min Torque N·m	Avg Torque Dist N·m	Max Torque N·m	Avg Pres Dist kPa	Avg μ Time	Init Rotor °C	Final Rotor °C
6.10 Recovery 1 at 63.5 kg·m²											
1	80.0	30.1	470.0	2.72	311	537	711	2950	0.37	100	124
2	80.0	30.1	145.6	2.99	395	599	745	2945	0.41	100	122
3	80.0	30.1	140.1	3.08	411	617	770	2945	0.42	100	121
4	80.0	30.1	137.3	3.11	416	622	769	2943	0.43	100	121
5	80.0	30.2	134.0	3.08	420	616	773	2944	0.42	101	123
6	80.0	30.1	135.2	3.03	431	608	757	2944	0.41	100	124
7	80.0	30.2	136.3	3.01	433	603	750	2945	0.41	100	125
8	80.0	30.1	134.0	2.97	442	597	731	2945	0.41	100	126
9	80.0	30.1	132.1	2.93	437	589	715	2946	0.40	100	127
10	80.0	30.0	133.7	2.91	437	585	716	2946	0.40	100	127
11	80.0	30.0	135.7	2.87	440	578	701	2947	0.39	100	128
12	80.0	30.0	135.3	2.91	456	585	708	2946	0.40	100	127
13	80.0	30.1	130.3	2.91	445	586	707	2946	0.40	101	129
14	80.0	30.1	132.1	2.90	447	584	713	2947	0.40	100	129
15	79.9	30.1	133.5	2.88	435	580	701	2946	0.39	101	129
16	80.0	30.1	134.2	2.90	441	583	706	2946	0.40	100	129
17	80.0	30.2	129.9	2.89	436	583	702	2946	0.40	101	130
18	79.9	30.1	132.1	2.88	433	580	698	2946	0.39	100	129
6.11 Temp./Pressure Sensitivity 100C/80C at 63.6 kg·m²											
1	79.9	30.1	135.3	0.99	103	201	238	972	0.41	100	119
2	80.0	30.1	135.8	1.90	268	384	453	1968	0.39	101	119
3	80.0	30.1	132.7	2.98	444	600	737	2945	0.41	100	127
4	79.9	30.1	133.6	4.11	633	829	998	3924	0.42	100	132
5	80.0	30.1	137.1	5.34	842	1077	1282	4925	0.44	100	130
6	80.0	30.2	140.1	6.56	1077	1328	1596	5910	0.45	100	127
7	79.9	30.2	136.5	7.87	1337	1593	1903	6895	0.46	100	123
8	79.9	30.1	138.7	9.77	1774	1992	2298	7920	0.50	101	121
6.12.1 Increasing Temp. 500C/300C at 63.7 kg·m²											
1	80.0	30.1	195.3	3.16	458	630	818	2942	0.43	99	121
2	80.0	30.1	173.6	3.38	503	677	846	2939	0.46	150	177
3	79.9	30.1	16.8	3.36	556	678	844	2940	0.46	199	236
4	79.9	30.1	14.6	3.41	566	687	849	2938	0.46	248	287
5	80.0	30.1	13.9	3.48	571	705	845	2937	0.48	295	333
6	79.9	30.0	12.8	3.43	582	699	795	2938	0.47	341	382
7	79.9	30.1	12.3	3.35	586	686	751	2939	0.46	387	430
8	79.9	30.1	12.0	3.23	569	665	719	2941	0.44	431	472
9	80.0	30.1	26.5	2.94	492	604	662	2945	0.40	495	542
6.12.2 Pressure Line 500C/300C at 63.6 kg·m²											
1	80.0	30.0	28.4	1.00	124	206	239	971	0.41	500	523
2	80.1	30.0	26.7	2.05	331	422	471	1966	0.42	500	541
3	80.0	30.1	30.0	3.03	519	622	675	2944	0.41	500	540
4	80.0	30.1	30.4	4.00	735	823	875	3925	0.41	500	533
5	80.0	30.1	29.9	4.92	931	1017	1075	4931	0.40	500	527
6	80.0	30.2	29.6	5.85	1134	1211	1280	5916	0.40	500	522
7	80.0	30.2	29.4	6.86	1303	1423	1515	6900	0.40	500	518
8	80.0	30.2	29.9	8.02	1498	1665	1752	7927	0.41	499	514

Test Req #:	D465 FRONT 210607	Link Transportation Testing Technology (Shanghai) Co., Ltd Brake Dynamometer Testing
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Stop	Brake Speed kph	Release Speed kph	Cycle Time sec	Decel Torque m/s ²	Min Torque N·m	Avg Torque Dist N·m	Max Torque N·m	Avg Pres Dist kPa	Avg μ Time	Init Rotor °C	Final Rotor °C
6.13 Recovery 2 at 63.5 kg·m²											
1	80.0	30.1	433.8	3.00	430	600	758	2945	0.41	100	139
2	80.0	30.1	149.7	3.08	467	620	758	2943	0.42	101	138
3	80.0	30.1	143.0	3.10	468	624	759	2944	0.42	101	141
4	80.0	30.1	140.2	3.12	471	629	763	2942	0.43	101	142
5	80.0	30.0	141.4	3.15	486	634	763	2943	0.43	100	143
6	80.0	30.1	141.5	3.18	479	640	771	2943	0.44	101	144
7	80.0	30.1	137.9	3.20	489	644	779	2942	0.44	100	143
8	80.0	30.1	137.9	3.18	485	641	766	2943	0.43	100	141
9	80.0	30.1	137.7	3.18	484	642	768	2942	0.44	101	142
10	80.1	30.1	138.6	3.16	481	639	754	2943	0.43	101	143
11	80.0	30.1	134.5	3.14	484	635	752	2943	0.43	100	143
12	79.9	30.1	135.4	3.11	484	629	738	2944	0.43	101	144
13	80.0	30.2	137.4	3.09	478	625	732	2944	0.42	100	146
14	79.9	30.2	136.5	3.06	484	620	723	2944	0.42	100	147
15	80.0	30.1	132.0	3.05	474	617	725	2944	0.42	100	149
16	80.0	30.1	132.9	3.04	466	614	727	2945	0.42	100	147
17	80.0	30.1	133.6	3.04	469	613	728	2944	0.42	101	147
18	80.0	30.1	132.7	3.05	473	615	730	2945	0.42	100	148
6.14 Fade 2 at 63.8 kg·m²											
1	100.0	1.0	155.6	3.95	710	828	1014	3173	0.55	100	196
2	100.0	1.2	14.1	3.93	660	820	1053	3089	0.54	205	322
3	100.0	1.0	32.2	3.93	677	819	1052	3131	0.53	282	398
4	100.0	1.0	44.3	3.93	668	818	1061	3147	0.51	330	436
5	100.0	1.0	43.5	3.92	658	818	1056	3265	0.48	367	475
6	99.9	1.0	42.3	3.93	665	820	1022	3410	0.46	397	502
7	100.0	1.2	42.5	3.93	665	821	1029	3528	0.45	422	523
8	100.0	1.0	40.3	3.93	664	821	1047	3626	0.44	446	543
9	100.0	1.2	39.2	3.93	658	821	1050	3737	0.42	464	562
10	100.0	1.0	38.7	3.92	656	820	1101	3860	0.40	481	581
11	100.0	1.2	38.3	3.92	655	821	1092	3900	0.40	497	595
12	100.0	1.0	38.0	3.92	652	820	1066	3924	0.40	511	607
13	100.0	1.0	36.6	3.91	654	820	1080	4026	0.39	525	619
14	100.0	1.0	35.9	3.91	656	820	1081	4039	0.38	537	630
15	100.0	1.0	34.9	3.92	651	822	1099	4008	0.39	549	642
6.15 Recovery 3 at 63.5 kg·m²											
1	80.0	30.1	454.0	2.89	391	579	727	2946	0.40	101	136
2	80.0	30.0	145.6	2.99	415	600	742	2945	0.41	101	133
3	80.0	30.2	140.3	2.99	431	600	739	2946	0.41	100	135
4	80.0	30.1	135.4	2.99	440	601	728	2945	0.41	100	136
5	80.0	30.1	132.5	2.99	453	602	729	2945	0.41	100	138
6	80.0	30.1	130.2	2.99	446	604	730	2945	0.41	100	139
7	80.0	30.1	128.3	3.00	460	606	726	2945	0.41	100	142
8	80.0	30.2	128.0	3.00	445	604	727	2944	0.41	101	144
9	80.0	30.1	128.4	3.02	458	608	740	2945	0.41	100	144
10	80.0	30.1	127.5	3.02	462	609	742	2945	0.41	100	146
11	80.0	30.0	127.4	3.01	452	607	739	2944	0.41	100	146
12	80.0	30.1	128.5	2.99	451	603	736	2945	0.41	100	146

Test Req #:	D465 FRONT 210607	Link Transportation Testing Technology (Shanghai) Co., Ltd Brake Dynamometer Testing
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Stop	Brake Speed kph	Release Speed kph	Cycle Time sec	Decel Torque m/s ²	Min Torque N·m	Avg Torque Dist N·m	Max Torque N·m	Avg Pres Dist kPa	Avg μ Time	Init Rotor °C	Final Rotor °C
13	80.0	30.0	128.4	2.99	450	602	743	2945	0.41	101	146
14	80.0	30.1	128.1	3.00	452	604	740	2945	0.41	100	145
15	80.0	30.1	127.9	3.00	451	604	738	2945	0.41	100	145
16	79.9	30.0	125.8	2.98	442	599	729	2946	0.41	101	144
17	80.0	30.1	126.1	2.96	447	596	724	2946	0.40	100	145
18	80.0	30.1	125.2	2.95	440	593	715	2946	0.40	100	144

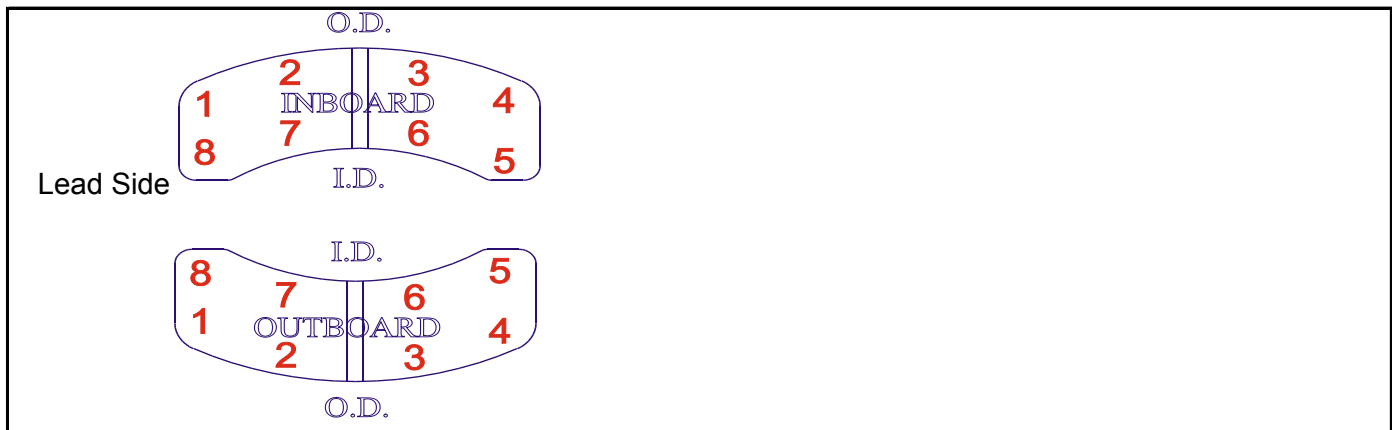
Test Req #:	D465 FRONT 210607	Link Transportation Testing Technology (Shanghai) Co., Ltd Brake Dynamometer Testing
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Pad and Rotor Wear

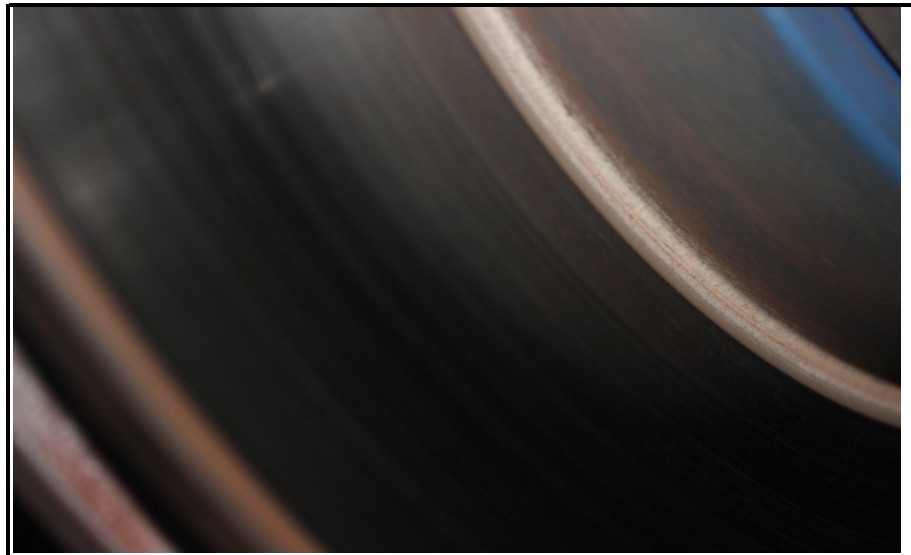
<u>Inboard Pad Thickness (mm)</u>		Individual Positions								Avg
		1	2	3	4	5	6	7	8	
initial		17.940	17.860	17.860	17.940	17.910	17.830	17.850	17.900	17.886
final		17.160	16.860	16.800	16.840	17.040	16.980	17.050	17.240	16.996
Loss		0.780	1.000	1.060	1.100	0.870	0.850	0.800	0.660	0.890

<u>Outboard Pad Thickness (mm)</u>		Individual Positions								Avg
		1	2	3	4	5	6	7	8	
initial		17.840	17.820	17.820	17.790	17.850	17.850	17.850	17.860	17.835
final		16.930	16.970	16.960	16.750	17.080	17.170	17.190	17.150	17.025
Loss		0.910	0.850	0.860	1.040	0.770	0.680	0.660	0.710	0.810

<u>Pad & Rotor Weight (gram)</u>		
	Inboard Pad	Outboard Pad
initial	387.2	383.0
final	373.6	370.6
Loss	13.6	12.4



Before test



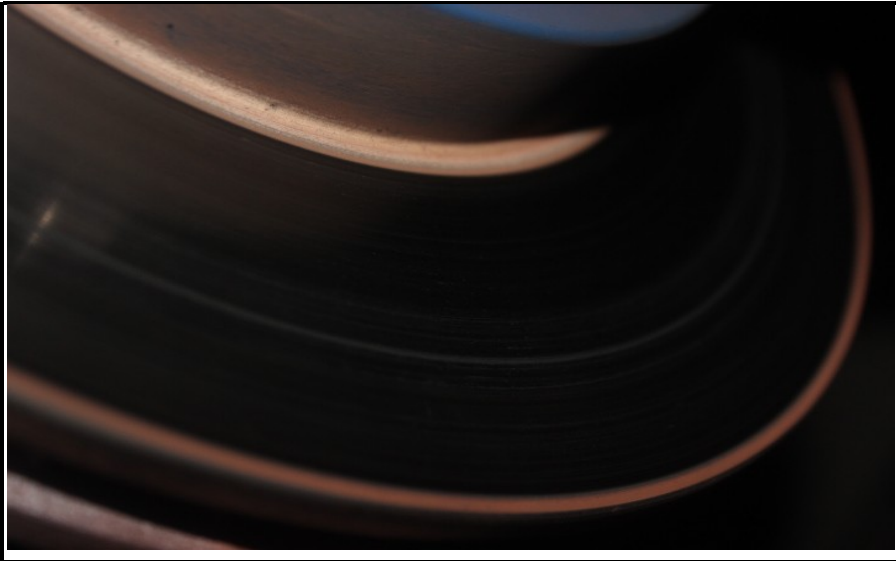
SAE J2522- AK Master

Material: P21

Batch: SFT

Schedule:

After test



SAE J2522- AK Master

Material: P21	
Batch: SFT	Schedule: