FOUR PRODUCTS, LLC
COOL SHIM TEST #1

Client	Four Products, LLC 65 W. Dayton St. Suite 206 Pasadena, California 91105
Brake	Meritor 4 x 70 mm Quadraulic
Lining Edge Code	PFC 50-FF
Rotor Part Number	Webb 54775P-65
Report Number	133689-1
Test Completion Date	24 October 2013

Signature

Kevin C. Machus, Test Engineer
for Greening Testing Laboratories, Inc.

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Greening Testing Laboratories, Inc.

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CERTIFICATE NO. 1575.01

FOUR PRODUCTS COOL SHIM TEST #1

MERITOR 4 X 70 MM QUADRAULIC - FMSI® NUMBER: 7636-D769

TEST DETAILS

Test Number	M20-031-22
Test Program Number	361220V01.TST
Brake	Meritor 4 x 70 mm Quadraulic
Test Date(s)	16 - 17 September, 30 September - 01 October, 24 - 28 October 2013
Reference	Dr. Joe Demers
Test Report Prepared By	K. Machus
Date Test Report Prepared	05 December 2013
Lining Edge Code	PFC 50-FF
Brake Pad Part Number	PFC 0769-10
Brake Pad FMSI® Number	7636-D769
Brake Configuration	quad piston, fixed position disc brake
Piston Diameter	4 x 70 mm
Rotor Part Number	Webb 54775P-65
Brake Size (nominal) Rotor Diameter x Thickness	15.410 x 1.560 inches
Rotor Mass (nominal)	19.3 kg
Rotor Effective Radius	6.443 inches
Static Loaded Radius / Rolling Radius	20.5 inches
Axle Load	17,000 lbs
Test Inertia	770.4 slug·ft²
Simulated Wheel Load	8,500 lbs
Wheel Rotation	right hand
Test Fixture	932304
Caliper in-service date	13 September 2013
Date Test Parts Received	11 September 2013

FOUR PRODUCTS COOL SHIM TEST #1

MERITOR 4 X 70 MM QUADRAULIC - FMSI® NUMBER: 7636-D769

PAD MEASUREMENTS

Thickness & Mass (in/kg)

	Location	Pre Test	Post Test	Loss
Inboard Pad	A	0.979	0.791	0.188
	B	0.971	0.784	0.187
	C	0.970	0.777	0.193
	D	0.970	0.765	0.205
	E	0.966	0.769	0.197
	F	0.966	0.771	0.195
	G	0.968	0.780	0.188
	H	0.974	0.799	0.175
	Average	0.971	0.780	0.191
	Mass	1.618	1.421	0.197

	Location	Pre Test	Post Test	Loss
Outboard Pad	I	0.972	0.789	0.183
	J	0.971	0.751	0.220
	K	0.971	0.741	0.230
	L	0.973	0.729	0.244
	M	0.973	0.786	0.187
	N	0.968	0.787	0.181
	O	0.967	0.799	0.168
	P	0.970	0.839	0.131
	Average	0.971	0.778	0.193
	Mass	1.638	1.433	0.205

ROTOR MEASUREMENTS

Thickness & Mass (min/kg)

Location	Pre Test	Post Test	Loss
A	1.5345	1.5176	0.0169
B	1.5346	1.5156	0.0190
C	1.5348	1.5177	0.0171
D	1.5347	1.5154	0.0193
E	1.5344	1.5169	0.0175
F	1.5344	1.5143	0.0201
G	1.5346	1.5141	0.0205
H	1.5347	1.5138	0.0209
Average	1.5346	1.5157	0.0189
Mass	19.326	19.240	0.086

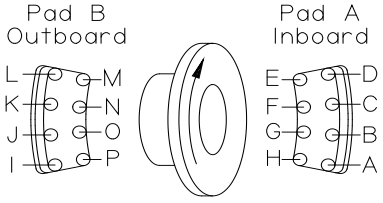
Physical Characteristics

	Pre Test	Post Test
Surface Finish (µin) (0° Inboard Face)	123	134
Brinell Hardness (0° Inboard Face)	207	196
TIR (in) (Inboard Face)	0.005	0.007

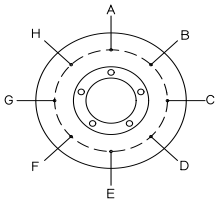
NOTE: Values in parentheses indicate an increase in thickness or mass.

MEASUREMENT LOCATION DIAGRAMS

Pad Thickness



Rotor Thickness



DATA NOTES

1. All average and sustained pressure, torque, and average deceleration values shown in this report are calculated with respect to **DISTANCE.**

2. The data presented in this report has been gathered as follows:
   START Threshold = 50 lbf·ft of torque (during brake apply).
   INITIAL Data values are taken at the point where the control level is achieved.
   SUSTAINED Data Interval = Time interval from which the control level is achieved through to the STOP threshold.
   END Data values are taken at the point where the STOP threshold is achieved back (minus) 0.1 seconds.
   STOP Threshold = Brake release.

   AVERAGE values are reported over the interval between START and STOP Threshold levels. MINIMUM values are only reported during the SUSTAINED Data Interval.

3. Brake Apply Control = Pressure, $\frac{750\ lbf/in^2}{s}$

4. Cooling Air Temperature = 80°F

5. Cooling Air Velocity = 25 mi/h for Instrument Check and Burnish, 15 mi/h for all other sections.

6. For all stops which show "zero" (0) or negative values for some of the computed pressure or torque values:

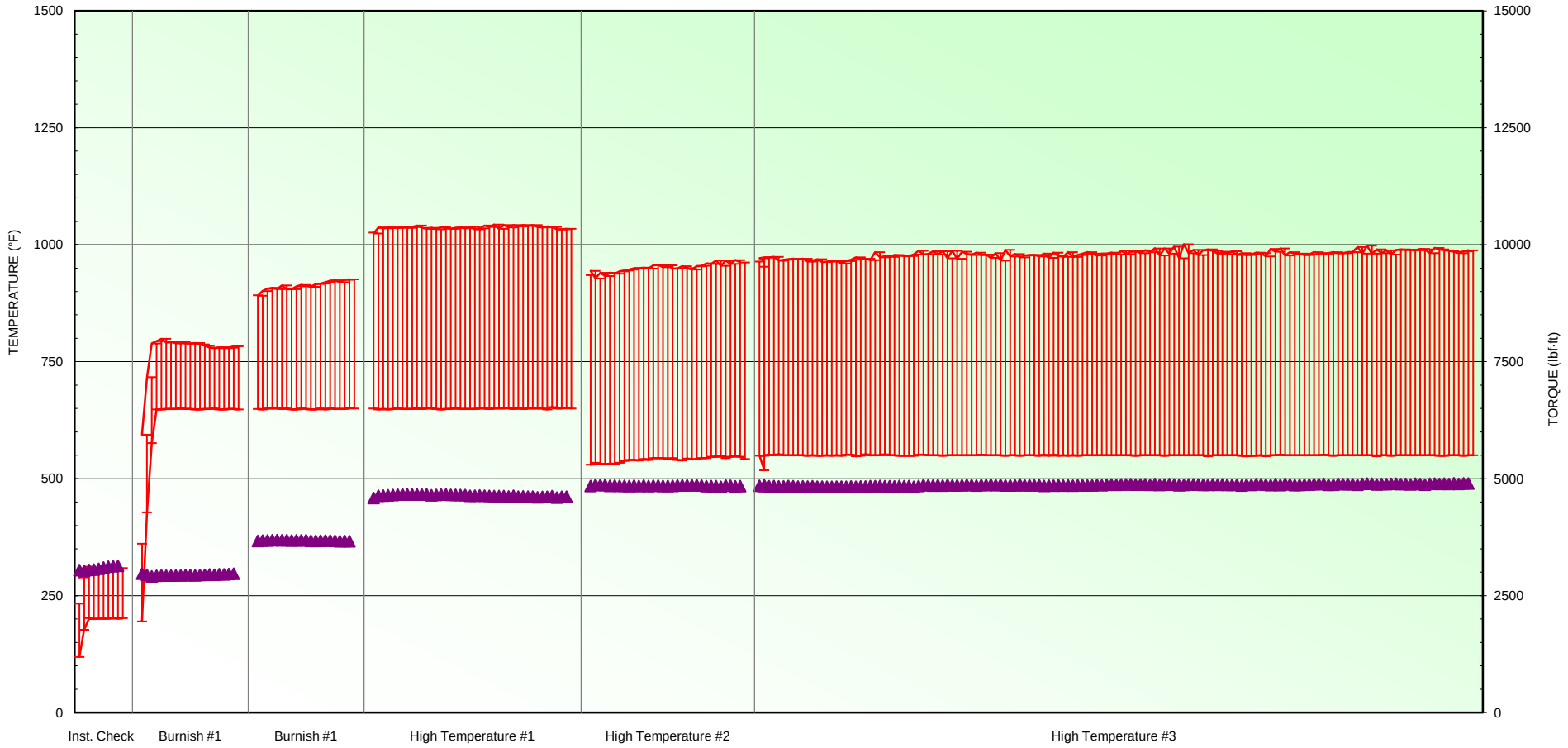
   These stops achieved zero speed but did not achieve the torque level required for the particular stop. Since the START data and STOP data thresholds were satisfied, deceleration rate distance, time to stop, etc., are accurate values, and can be used for data comparison purposes.

   The presence of "zero" values generally is caused by lack of brake performance, resulting in a "clamp" condition. "Clamp" condition is defined by the brake calling for the maximum pressure the test section allows ("clamp" pressure) and the brake being unable to attain the deceleration rate required in the test section at that pressure.

FOUR PRODUCTS COOL SHIM TEST #1

MERITOR 4 X 70 MM QUADRAULIC - FMSI® NUMBER: 7636-D769

TEST PERFORMANCE PROFILE

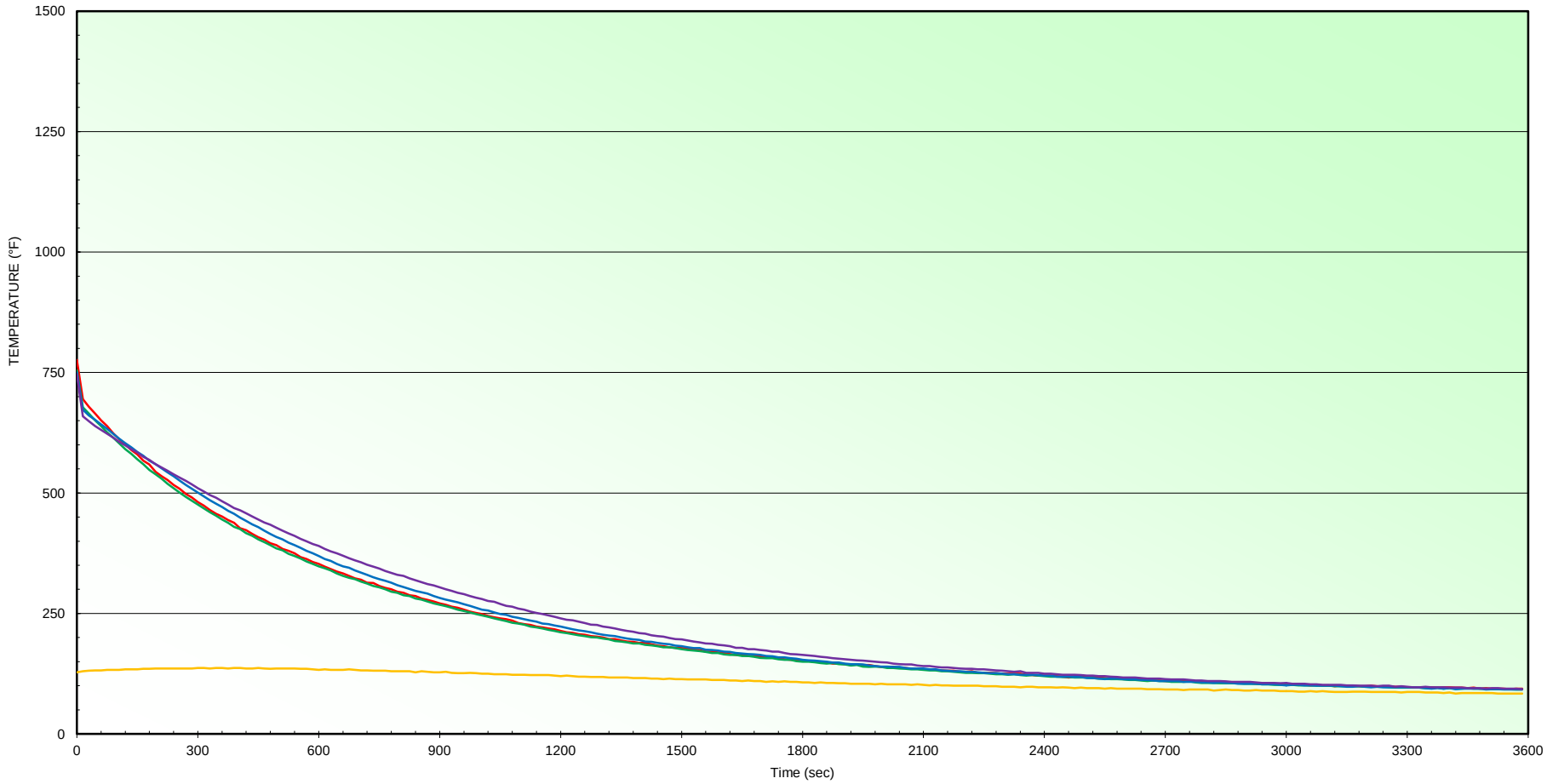


Client: Four Products, LLC	Axle Load: 17,000 lbs	Avg. Inboard Pad Thickness: 0.971 in	Loss: 0.191 in
Test Number: M20-031-22	Rolling Radius: 20.5 inches	Mass: 1.618 kg	Loss: 0.197 kg
Friction Material: PFC 50-FF	Test Inertia: 770.4 slug·ft²	Avg. Outboard Pad Thickness: 0.971 in	Loss: 0.193 in
Rotor Part No.: Webb 54775P-65	Piston Diameter(s): 4 x 70 mm	Mass: 1.638 kg	Loss: 0.205 kg
Report Number: 133689-1	Brake Size: 15.410 x 1.560 inches	Avg. Rotor Thickness: 19.326 in	Loss: 0.0189 in
Test Report Date: 24 October 2013	Rotor Effective Radius: 6.443 inches	Mass: 19.326 kg	Loss: 0.086 kg

FOUR PRODUCTS COOL SHIM TEST #1

MERITOR 4 X 70 MM QUADRAULIC - FMSI® NUMBER: 7636-D769

POST BURNISH COOLING CURVE

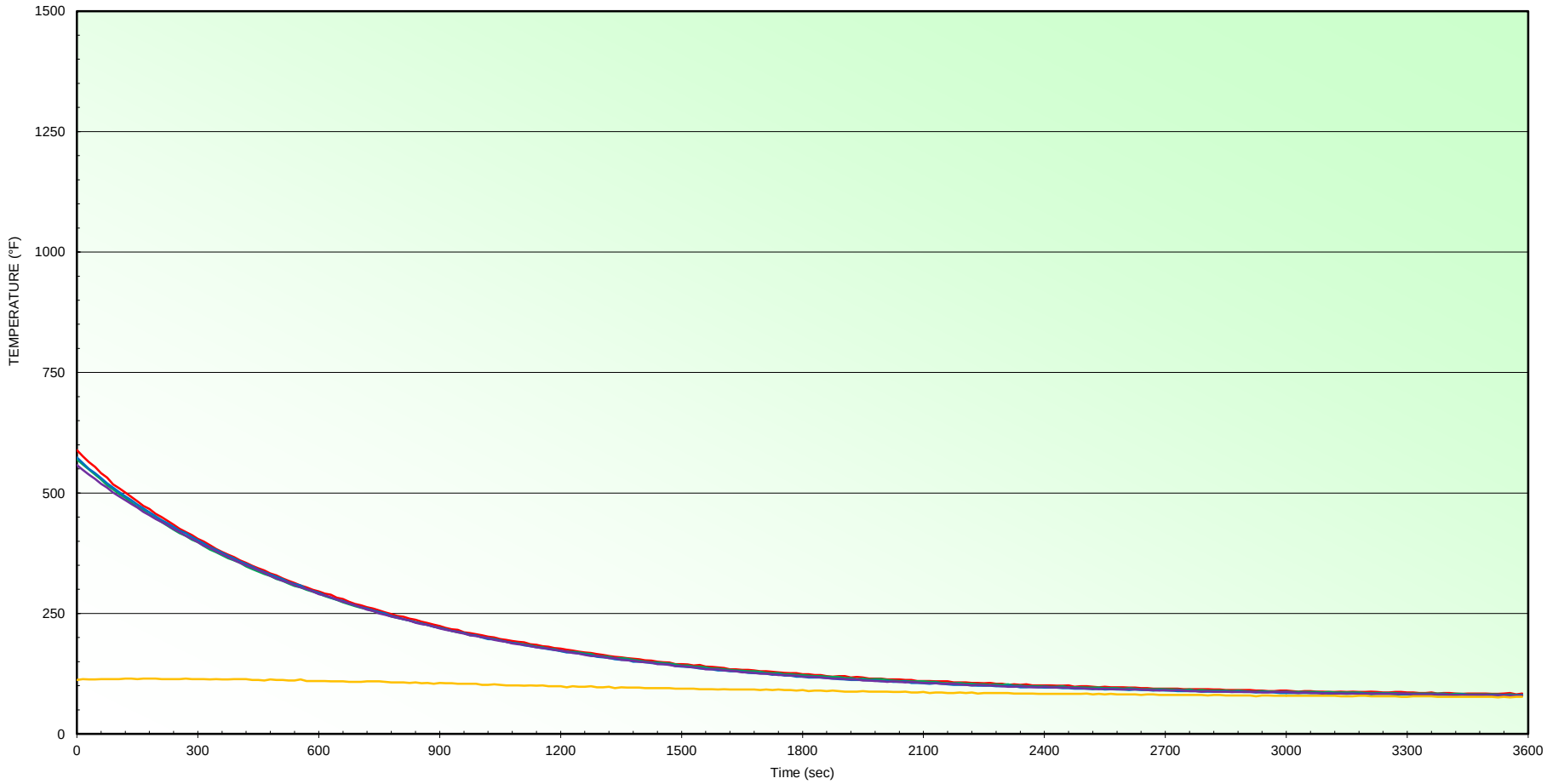


Client: Four Products, LLC	Axle Load: 17,000 lbs	Avg. Inboard Pad Thickness: 0.971 in	Loss: 0.191 in
Test Number: M20-031-22	Rolling Radius: 20.5 inches	Mass: 1.618 kg	Loss: 0.197 kg
Friction Material: PFC 50-FF	Test Inertia: 770.4 slug·ft²	Avg. Outboard Pad Thickness: 0.971 in	Loss: 0.193 in
Rotor Part No.: Webb 54775P-65	Piston Diameter(s): 4 x 70 mm	Mass: 1.638 kg	Loss: 0.205 kg
Report Number: 133689-1	Brake Size: 15.410 x 1.560 inches	Avg. Rotor Thickness: 19.326 in	Loss: 0.0189 in
Test Report Date: 24 October 2013	Rotor Effective Radius: 6.443 inches	Mass: 19.326 kg	Loss: 0.086 kg

FOUR PRODUCTS COOL SHIM TEST #1

MERITOR 4 X 70 MM QUADRAULIC - FMSI® NUMBER: 7636-D769

POST HIGH TEMPERATURE TEST #3 COOLING CURVE

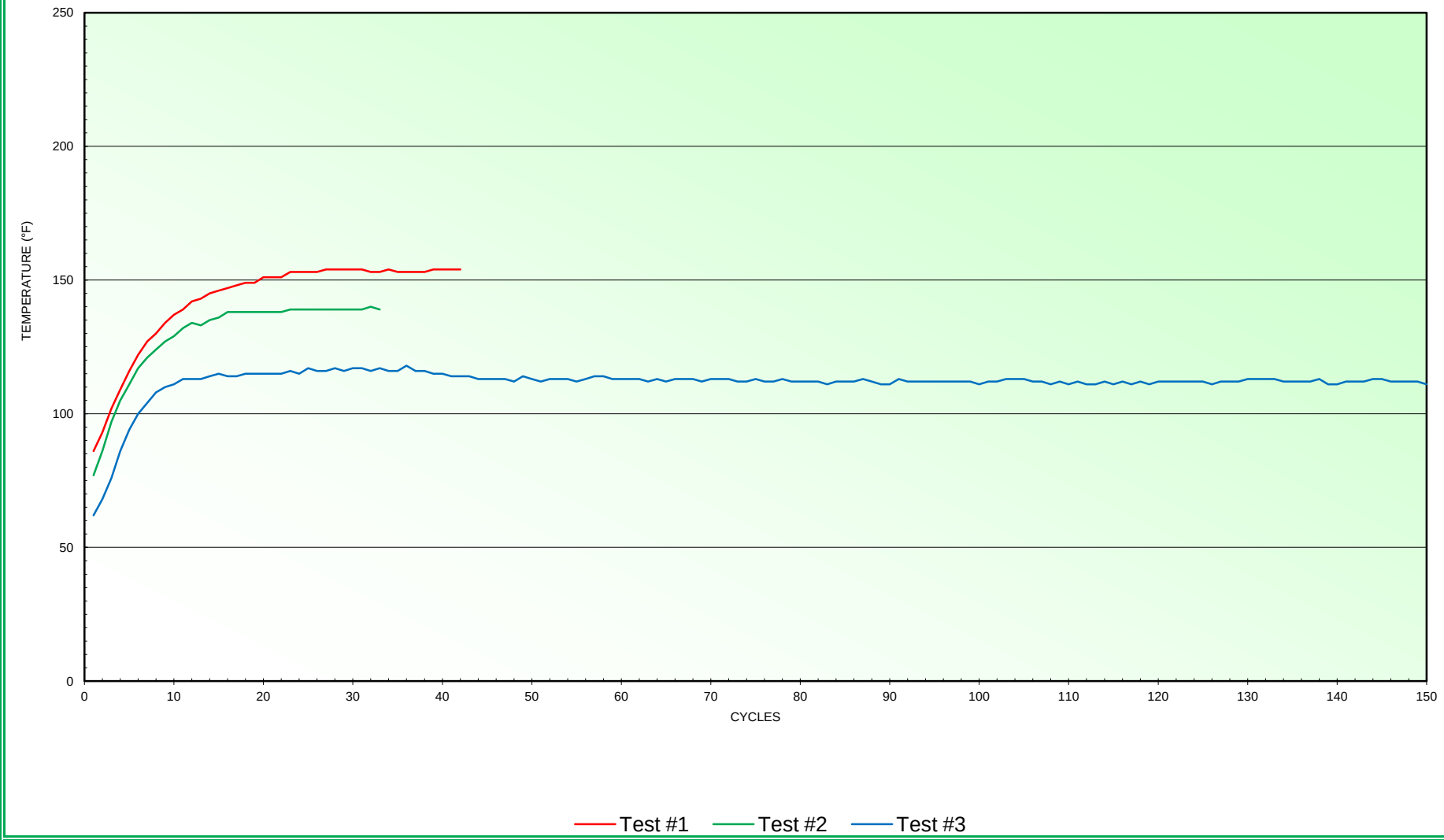


Client: Four Products, LLC	Axle Load: 17,000 lbs	Avg. Inboard Pad Thickness: 0.971 in	Loss: 0.191 in
Test Number: M20-031-22	Rolling Radius: 20.5 inches	Mass: 1.618 kg	Loss: 0.197 kg
Friction Material: PFC 50-FF	Test Inertia: 770.4 slug·ft²	Avg. Outboard Pad Thickness: 0.971 in	Loss: 0.193 in
Rotor Part No.: Webb 54775P-65	Piston Diameter(s): 4 x 70 mm	Mass: 1.638 kg	Loss: 0.205 kg
Report Number: 133689-1	Brake Size: 15.410 x 1.560 inches	Avg. Rotor Thickness: 19.326 in	Loss: 0.0189 in
Test Report Date: 24 October 2013	Rotor Effective Radius: 6.443 inches	Mass: 19.326 kg	Loss: 0.086 kg

FOUR PRODUCTS COOL SHIM TEST #1

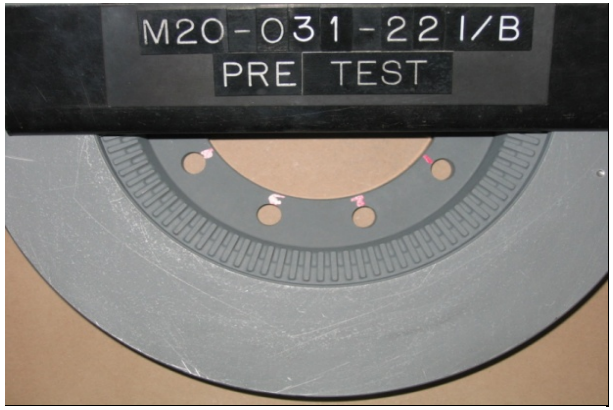
MERITOR 4 X 70 MM QUADRAULIC - FMSI® NUMBER: 7636-D769

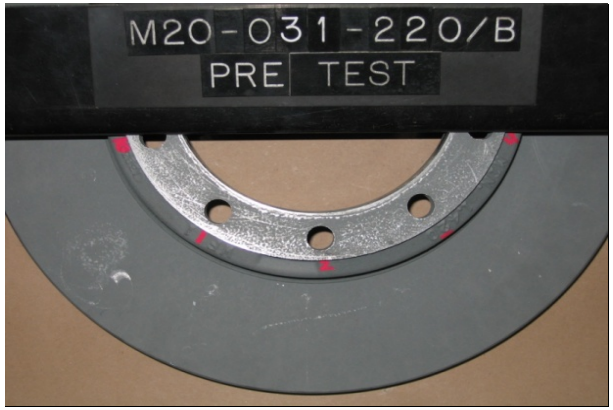
INITIAL BRAKE FLUID TEMPERATURE DURING HIGH TEMPERATURE TESTS



Client: Four Products, LLC	Axle Load: 17,000 lbs	Avg. Inboard Pad Thickness: 0.971 in	Loss: 0.191 in
Test Number: M20-031-22	Rolling Radius: 20.5 inches	Mass: 1.618 kg	Loss: 0.197 kg
Friction Material: PFC 50-FF	Test Inertia: 770.4 slug·ft²	Avg. Outboard Pad Thickness: 0.971 in	Loss: 0.193 in
Rotor Part No.: Webb 54775P-65	Piston Diameter(s): 4 x 70 mm	Mass: 1.638 kg	Loss: 0.205 kg
Report Number: 133689-1	Brake Size: 15.410 x 1.560 inches	Avg. Rotor Thickness: 19.326 in	Loss: 0.0189 in
Test Report Date: 24 October 2013	Rotor Effective Radius: 6.443 inches	Mass: 19.326 kg	Loss: 0.086 kg

PRE TEST PHOTOGRAPHS





Test Number: M20-031-22
Friction Material: PFC 50-FF
Rotor Part No.: Webb 54775P-65

Report Number: 133689-1
Four Products, LLC

CYCLE NO.	SPEED INIT (mi/h)	SPEED FNL (mi/h)	TIME STOP (s)	TIME REPT (s)	DISTANCE TO STOP (ft)	DECEL AVG (ft/s²)	PRESSURE AVG (lbf/in²)	PRESSURE INIT (lbf/in²)	PRESSURE SUST (lbf/in²)	PRESSURE END (lbf/in²)	PRESSURE MAX (lbf/in²)	TORQUE AVG (lbf·ft)	TORQUE INIT (lbf·ft)	TORQUE SUST (lbf·ft)	TORQUE END (lbf·ft)	TORQUE MAX (lbf·ft)	TEMPERATURE ROTOR INBOARD INIT (°F)	TEMPERATURE ROTOR INBOARD MAX (°F)	TEMPERATURE ROTOR OUTBOARD INIT (°F)	TEMPERATURE ROTOR OUTBOARD MAX (°F)	TEMPERATURE PADS INBOARD INIT (°F)	TEMPERATURE PADS INBOARD MAX (°F)	TEMPERATURE PADS OUTBOARD INIT (°F)	TEMPERATURE PADS OUTBOARD MAX (°F)	TEMPERATURE FLUID (°F)	TEMPERATURE CALIPER INBOARD INIT (°F)	TEMPERATURE CALIPER INBOARD MAX (°F)	TEMPERATURE CALIPER OUTBOARD INIT (°F)	TEMPERATURE CALIPER OUTBOARD MAX (°F)	FLUID DISP MAX (in²)	FRIC. COEF. AVG (μ)
INSTRUMENT CHECK																															
30 mi/h - 10.0 ft/s² Deceleration Rate - 200°F Initial Rotor Temperature																															
1	30.0	0.5	5.38	0.0	142.0	6.82	1011	1525	1493	1294	1548	3064	4479	4532	4582	4615	119	233	104	220	115	203	117	237	73	74	*	*	*	*	0.94	0.24
2	30.0	0.5	5.40	60.1	142.3	6.79	1020	1494	1507	1341	1570	3046	4497	4520	4520	4623	177	289	158	272	155	247	152	282	72	74					0.92	0.23
3	30.0	0.5	5.42	94.9	143.3	6.74	1035	1524	1539	1404	1612	3034	4502	4517	4482	4641	202	312	192	305	185	272	181	311	72	75					0.94	0.23
4	29.9	0.5	5.40	148.3	142.3	6.78	1018	1464	1504	1398	1571	3050	4502	4511	4494	4644	200	302	196	308	195	273	193	320	74	75					0.93	0.23
5	30.0	0.5	5.37	148.6	142.2	6.81	1005	1429	1471	1398	1534	3057	4485	4511	4497	4653	201	303	199	316	201	279	199	334	75	78					0.91	0.24
6	30.0	0.5	5.38	155.0	141.2	6.85	975	1437	1408	1338	1459	3075	4523	4526	4443	4721	201	304	198	320	203	281	202	348	76	78					0.88	0.25
7	30.0	0.5	5.35	157.6	140.2	6.90	938	1317	1329	1293	1387	3102	4473	4514	4443	4671	201	307	200	335	203	285	203	360	76	78					0.83	0.26
8	30.0	0.5	5.33	159.2	139.3	6.94	907	1273	1267	1252	1321	3121	4508	4517	4429	4718	202	311	197	336	202	288	204	357	77	79					0.81	0.27
9	30.0	0.5	5.32	162.8	138.9	6.97	888	1292	1230	1244	1300	3131	4547	4529	4420	4712	201	308	195	331	202	284	204	345	78	79					0.79	0.28
10	30.0	0.5	5.31	164.1	138.4	7.00	873	1247	1200	1172	1303	3138	4502	4529	4399	4700	202	309	194	330	202	281	202	339	78	80					0.79	0.28
BURNISH 1																															
40-20 mi/h - 8.0 ft/s² Deceleration Rate - 650°F Initial Rotor Temperature - 45 Second Minimum Time Cycle																															
1	40.0	20.0	4.46	178.4	207.3	6.23	719	1012	879	888	1016	2808	3620	3635	3679	3909	195	361	191	403	197	309	198	402	79	80	*	*	*	*	0.67	0.30
5	40.0	20.0	4.25	45.1	196.1	6.59	617	744	741	769	792	2970	3614	3608	3638	3768	428	594	418	587	389	509	393	591	80	82					0.54	0.38
10	40.0	20.0	4.29	45.1	198.2	6.51	653	809	792	800	836	2946	3585	3611	3665	3780	576	717	566	729	542	642	555	727	86	86					0.56	0.35
15	40.0	20.1	4.33	50.9	200.0	6.44	692	862	849	875	893	2913	3588	3611	3665	3797	648	789	636	777	625	721	635	783	92	93					0.59	0.33
20	40.0	20.0	4.31	54.0	200.0	6.47	688	852	843	865	879	2926	3597	3611	3659	3812	648	794	631	755	639	736	642	787	100	102					0.59	0.33
25	40.0	20.0	4.30	54.8	198.9	6.48	681	836	834	818	862	2934	3597	3614	3670	3777	649	799	626	763	641	739	638	796	107	107					0.59	0.34
30	40.0	20.0	4.29	54.6	198.2	6.50	684	833	839	827	856	2930	3591	3608	3632	3753	649	791	631	764	645	740	638	797	111	112					0.59	0.33
35	40.1	20.0	4.29	53.9	198.8	6.52	682	841	836	850	854	2932	3588	3611	3576	3738	649	793	629	765	645	748	638	802	113	114					0.59	0.34
40	40.0	20.0	4.29	53.6	198.6	6.51	681	833	835	839	854	2934	3614	3611	3667	3735	650	789	629	764	647	741	639	797	115	116					0.60	0.34
45	40.0	20.0	4.29	52.5	198.8	6.48	678	830	830	825	848	2934	3626	3611	3623	3735	649	793	630	758	647	746	639	803	117	118					0.60	0.34
50	40.1	20.0	4.29	54.4	198.7	6.52	676	823	826	836	847	2939	3585	3611	3547	3721	649	789	626	764	645	747	638	813	118	119					0.60	0.34
55	40.0	20.0	4.29	54.9	198.6	6.51	675	818	824	832	846	2938	3582	3611	3529	3718	648	789	628	755	646	746	639	800	120	121					0.60	0.34
60	40.0	20.0	4.29	55.4	199.2	6.47	675	828	825	833	848	2935	3585	3608	3629	3706	648	790	631	762	647	748	642	813	119	121					0.60	0.34
65	40.0	20.0	4.29	53.6	198.4	6.51	673	835	821	846	847	2943	3606	3611	3635	3706	649	787	631	758	646	749	641	804	120	122					0.60	0.34
70	40.0	20.0	4.28	54.2	198.1	6.53	668	819	814	821	845	2946	3641	3611	3626	3709	649	784	629	766	646	747	641	817	121	123					0.60	0.34
75	40.1	20.0	4.27	52.4	197.5	6.56	667	810	812	823	843	2954	3606	3611	3665	3709	650	780	633	765	647	748	643	811	121	123					0.60	0.35
80	40.1	20.0	4.29	54.3	198.4	6.53	666	806	812	843	847	2947	3603	3608	3579	3709	648	779	632	769	647	746	643	829	122	123					0.60	0.35
85	40.0	20.0	4.27	53.4	196.8	6.56	661	798	803	819	837	2959	3576	3606	3606	3703	648	781	636	760	649	751	644	815	123	123					0.60	0.35
90	40.1	20.0	4.27	53.3	197.5	6.56	658	792	801	825	835	2955	3614	3608	3547	3703	649	779	634	769	647	748	645	826	122	124					0.60	0.35
95	40.0	20.0	4.27	53.8	197.0	6.56	652	778	791	809	827	2964	3600	3606	3600	3718	649	780	635	765	651	755	644	823	123	124					0.60	0.35
100	40.0	20.0	4.26	55.2	196.6	6.58	648	775	785	803	817	2969	3632	3606	3603	3718	648	783	628	772	646	746	641	811	123	124					0.60	0.36

*NOTE: Temperatures not recorded.

Test Number: M20-031-22
Friction Material: PFC 50-FF
Rotor Part No.: Webb 54775P-65

Report Number: 133689-1
Four Products, LLC

CYCLE	SPEED		TIME		DISTANCE	DECEL	PRESSURE					TORQUE					TEMPERATURE														FLUID	FRIC.
																	ROTOR				PADS				FLUID		CALIPER					
					TO												INBOARD		OUTBOARD		INBOARD		OUTBOARD				INBOARD		OUTBOARD		DISP	COEF.
NO.	INIT	FNL	STOP	REPT	STOP	AVG	AVG	INIT	SUST	END	MAX	AVG	INIT	SUST	END	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	MAX	AVG
	mi/h		s		ft	ft/s²	lbf/in²					lbf·ft					°F														in²	μ
BURNISH 2																																
15-15 mi/h - 10.0 ft/s² Deceleration Rate - 650°F Initial Rotor Temperature - 30 Second Minimum Time Cycle																																
1	50.0	15.0	5.88	53.1	299.5	8.18	952	1173	1207	1164	1252	3679	4511	4511	4556	4647	649	892	628	898	647	829	642	954	123	125	*	*	*	*	0.79	0.30
5	50.0	15.0	5.89	95.7	300.7	8.14	886	1049	1099	1082	1159	3669	4494	4505	4564	4623	648	891	631	886	649	831	644	927	124	126					0.77	0.32
10	50.0	15.0	5.87	94.5	299.3	8.18	872	1034	1079	1066	1134	3677	4491	4508	4494	4644	650	901	630	881	649	835	645	912	126	127					0.77	0.33
15	50.0	15.0	5.88	94.1	300.4	8.15	869	1015	1073	1040	1134	3680	4488	4505	4573	4617	650	906	632	885	650	839	647	929	125	127					0.78	0.33
20	50.0	15.0	5.89	93.1	300.2	8.17	870	1018	1074	1026	1141	3685	4494	4505	4573	4609	650	908	636	880	650	845	648	926	126	128					0.79	0.33
25	50.1	15.0	5.88	95.7	299.3	8.20	866	1010	1068	1036	1132	3688	4505	4508	4556	4606	649	905	634	890	649	843	645	933	127	128					0.80	0.33
30	50.0	15.0	5.87	93.6	299.4	8.17	865	991	1067	1016	1133	3683	4479	4505	4517	4612	650	913	632	882	649	849	645	933	126	128					0.81	0.33
35	50.0	15.0	5.87	94.6	299.1	8.20	869	1004	1072	1037	1136	3686	4491	4508	4523	4609	648	905	634	880	649	848	643	932	126	128					0.82	0.33
40	50.0	15.0	5.87	94.7	299.0	8.19	870	1005	1075	1048	1146	3678	4511	4505	4523	4600	648	905	635	897	651	852	644	919	126	128					0.84	0.33
45	50.0	15.0	5.88	94.1	300.0	8.15	869	1006	1073	1033	1131	3683	4520	4505	4526	4591	650	911	639	890	652	856	646	959	127	128					0.84	0.33
50	50.0	15.0	5.88	93.5	300.0	8.17	871	1017	1076	1035	1141	3682	4505	4505	4517	4597	649	914	638	890	652	862	645	912	127	129					0.85	0.33
55	50.0	15.0	5.87	93.1	299.1	8.20	872	1004	1076	1069	1139	3685	4488	4505	4567	4594	648	912	636	895	651	861	643	971	127	129					0.85	0.33
60	50.0	15.0	5.89	92.7	300.5	8.15	881	1029	1092	1083	1160	3671	4502	4505	4585	4606	648	910	637	906	653	863	644	931	128	129					0.87	0.33
65	50.0	15.0	5.89	92.6	300.5	8.14	884	1015	1095	1096	1155	3669	4497	4502	4461	4591	650	916	635	895	653	865	644	969	127	129					0.87	0.32
70	50.1	15.0	5.90	93.7	301.0	8.15	888	1037	1099	1082	1159	3673	4485	4502	4532	4606	648	917	635	903	652	871	644	934	127	128					0.87	0.32
75	50.0	15.0	5.88	93.3	299.9	8.16	883	1036	1093	1102	1156	3677	4508	4505	4550	4615	650	920	634	897	653	871	643	981	127	128					0.87	0.33
80	50.0	15.0	5.90	93.4	301.0	8.14	884	1021	1094	1080	1167	3676	4485	4502	4567	4617	649	923	636	900	653	872	644	938	128	129					0.88	0.32
85	50.0	15.0	5.90	92.1	301.1	8.13	889	1022	1102	1092	1167	3671	4488	4502	4461	4617	649	924	637	897	653	878	645	965	126	128					0.89	0.32
90	50.0	15.0	5.88	92.5	299.9	8.16	893	1042	1110	1125	1176	3663	4502	4502	4558	4617	649	920	638	900	655	875	646	952	127	128					0.89	0.32
95	50.0	15.0	5.91	92.5	301.5	8.13	892	1033	1108	1100	1175	3667	4511	4502	4556	4632	651	925	635	894	653	878	644	955	126	128					0.90	0.32
100	50.0	15.0	5.90	94.8	301.1	8.13	891	1049	1106	1114	1167	3663	4494	4505	4564	4620	650	926	633	883	652	880	643	958	127	128					0.90	0.32

*NOTE: Temperatures not recorded.

Test Number: M20-031-22
Friction Material: PFC 50-FF
Rotor Part No.: Webb 54775P-65

Report Number: 133689-1
Four Products, LLC

HIGH TEMPERATURE TEST #1 - WITHOUT COOLSHIMS

60-10 mi/h - 15.0 ft/s² Deceleration Rate - 650°F Initial Rotor Temperature - 30 Second Minimum Time Cycle

	SPEED		TIME		DISTANCE TO STOP	DECEL	PRESSURE					TORQUE					TEMPERATURE														FLUID	FRIC.
																	ROTOR				PADS				CALIPER							
																	INBOARD		OUTBOARD		INBOARD		OUTBOARD		FLUID		INBOARD		OUTBOARD		DISP	COEF.
CYCLE NO.	INIT	FNL	STOP	REPT		AVG	AVG	INIT	SUST	END	MAX	AVG	INIT	SUST	END	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	MAX	AVG
	mi/h		s		ft	ft/s²	lbf/in²					lbf·ft					°F														in²	μ
1	60.1	9.8	6.23	74.9	363.1	10.41	1384	2155	2139	1868	2248	4680	6759	6792	6780	6936	650	1026	636	1003	597	920	588	1044	86	88	*	*	*	*	1.28	0.26
2	60.0	9.8	6.31	136.3	369.9	10.18	1417	2212	2201	1944	2301	4587	6736	6783	6730	6930	648	1024	641	1002	639	935	615	1036	93	95					1.36	0.25
3	60.0	9.8	6.27	144.1	366.4	10.30	1414	2171	2211	1996	2298	4637	6739	6768	6762	6910	649	1037	642	1005	659	957	638	1066	102	103					1.37	0.26
4	60.1	9.8	6.27	150.7	366.2	10.32	1413	2181	2210	2005	2304	4639	6736	6765	6768	6913	648	1035	636	1008	665	959	647	1059	109	111					1.38	0.26
5	60.0	9.8	6.25	151.4	364.9	10.33	1411	2214	2209	1971	2303	4646	6759	6771	6792	6919	649	1037	637	999	669	964	650	1070	116	118					1.39	0.26
6	60.0	9.8	6.25	151.1	365.0	10.34	1406	2169	2193	1946	2300	4652	6753	6771	6759	6904	650	1036	640	1013	671	965	654	1067	122	124					1.40	0.26
7	60.0	9.8	6.24	151.7	364.7	10.35	1401	2163	2180	1921	2296	4661	6756	6780	6774	6898	649	1036	639	1004	673	969	656	1076	127	128					1.41	0.26
8	60.1	9.8	6.23	154.0	363.8	10.39	1397	2173	2170	1892	2294	4667	6748	6786	6804	6936	649	1038	637	1012	672	968	657	1074	130	132					1.42	0.26
9	60.0	9.8	6.22	152.8	363.3	10.37	1392	2134	2156	1896	2286	4664	6739	6780	6777	6936	649	1036	641	1002	676	971	658	1078	134	135					1.42	0.26
10	60.0	9.8	6.23	153.9	363.7	10.36	1393	2157	2161	1888	2289	4663	6745	6792	6768	6927	650	1038	641	1014	675	975	660	1076	137	138					1.43	0.26
11	60.1	9.8	6.23	155.6	364.1	10.37	1391	2176	2153	1854	2292	4665	6777	6795	6780	6916	649	1041	639	1008	675	977	659	1088	139	141					1.43	0.26
12	60.0	9.8	6.24	156.5	364.4	10.36	1391	2177	2149	1846	2281	4664	6745	6798	6815	6939	650	1036	639	1015	675	973	659	1075	142	143					1.43	0.26
13	60.1	9.8	6.22	156.9	363.6	10.39	1385	2194	2137	1843	2286	4666	6768	6804	6818	6936	650	1034	637	1006	674	973	659	1091	143	145					1.43	0.26
14	60.0	9.8	6.25	155.4	365.5	10.33	1390	2181	2145	1833	2290	4646	6739	6798	6780	6927	649	1036	642	1012	676	975	660	1074	145	146					1.44	0.26
15	60.0	9.8	6.25	157.8	365.4	10.32	1384	2166	2127	1828	2281	4654	6742	6798	6762	6925	648	1033	641	1004	676	975	660	1089	146	148					1.43	0.26
16	60.0	9.8	6.23	158.9	364.1	10.35	1385	2207	2126	1821	2286	4662	6750	6812	6750	6933	649	1038	637	1009	674	980	659	1077	147	149					1.44	0.26
17	60.0	9.8	6.23	158.1	364.3	10.36	1380	2168	2118	1817	2274	4665	6739	6798	6801	6945	649	1035	637	1003	674	977	659	1100	148	150					1.43	0.26
18	59.9	9.8	6.23	159.8	364.4	10.33	1380	2144	2116	1811	2270	4655	6756	6795	6780	6948	651	1034	636	1012	673	976	659	1078	149	151					1.44	0.26
19	60.1	9.8	6.24	157.6	364.6	10.36	1383	2192	2122	1820	2278	4655	6745	6804	6798	6933	649	1036	639	1002	674	979	660	1102	149	151					1.44	0.26
20	60.0	9.8	6.24	156.7	364.9	10.35	1383	2180	2120	1791	2288	4652	6759	6804	6768	6936	649	1037	644	1020	678	982	662	1088	151	152					1.44	0.26
21	60.0	9.8	6.23	159.4	364.6	10.34	1386	2218	2126	1823	2294	4651	6765	6809	6815	6939	649	1035	643	1003	678	982	663	1100	151	153					1.45	0.26
22	60.0	9.8	6.25	158.7	366.4	10.29	1384	2164	2123	1792	2285	4635	6736	6798	6762	6945	649	1038	645	1021	677	988	664	1086	151	153					1.45	0.26
23	60.0	9.8	6.25	160.7	365.4	10.32	1383	2218	2118	1800	2291	4637	6756	6812	6821	6948	650	1033	642	1002	677	982	663	1094	153	154					1.45	0.26
24	59.9	9.8	6.25	158.5	365.9	10.28	1382	2216	2112	1793	2288	4642	6762	6815	6804	6951	650	1035	646	1024	678	986	664	1100	153	155					1.45	0.26
25	60.0	9.8	6.26	159.3	366.4	10.29	1390	2189	2133	1808	2291	4636	6750	6804	6733	6948	649	1041	646	993	679	994	664	1088	153	154					1.46	0.26
26	60.0	9.8	6.25	160.4	366.4	10.28	1380	2151	2111	1787	2284	4633	6742	6798	6812	6939	650	1038	643	1027	679	991	663	1105	153	155					1.46	0.26
27	60.0	9.8	6.28	159.6	366.5	10.29	1386	2191	2119	1796	2289	4629	6733	6807	6786	6930	650	1043	646	998	680	996	664	1089	154	156					1.46	0.26
28	60.0	9.8	6.27	162.4	367.0	10.27	1384	2164	2114	1778	2281	4630	6745	6801	6730	6957	650	1034	642	1027	678	990	663	1111	154	156					1.46	0.26
29	60.0	9.8	6.26	160.5	367.3	10.26	1391	2236	2129	1829	2302	4630	6742	6815	6792	6957	651	1042	643	992	680	998	663	1094	154	155					1.47	0.26
30	60.0	9.8	6.28	160.5	368.0	10.26	1389	2174	2127	1796	2297	4620	6742	6801	6753	6945	649	1037	644	1027	680	995	663	1098	154	155					1.47	0.26
31	60.0	9.8	6.26	160.6	366.6	10.28	1382	2219	2109	1807	2298	4635	6733	6815	6804	6957	651	1042	642	998	679	1004	663	1095	154	155					1.47	0.26
32	60.0	9.8	6.27	160.7	367.6	10.24	1386	2222	2119	1782	2303	4617	6742	6815	6827	6939	649	1039	645	1026	679	1002	663	1098	153	155					1.48	0.26
33	60.1	9.8	6.27	159.3	367.6	10.27	1388	2215	2123	1815	2297	4622	6739	6815	6739	6960	650	1042	648	1005	681	1009	664	1098	153	155					1.48	0.26
34	60.0	9.8	6.28	162.7	367.9	10.26	1387	2194	2122	1787	2302	4617	6765	6804	6768	6951	650	1040	644	1031	679	1004	662	1100	154	155					1.48	0.26
35	60.0	9.8	6.28	161.9	368.0	10.26	1389	2246	2122	1829	2305	4617	6745	6818	6759	6963	650	1042	644	995	680	1011	663	1097	153	155					1.49	0.26
36	60.0	9.8	6.29	162.4	369.2	10.20	1391	2220	2124	1782	2301	4602	6745	6809	6789	6960	650	1038	644	1022	678	1011	661	1090	153	155					1.49	0.26
37	60.0	9.8	6.28	160.3	368.6	10.24	1385	2181	2116	1807	2291	4612	6736	6801	6727	6951	648	1037	647	1010	681	1012	663	1108	153	155					1.48	0.26
38	60.0	9.8	6.28	161.0	368.3	10.25	1391	2252	2123	1809	2307	4614	6750	6815	6742	6948	653	1039	646	1033	681	1014	664	1102	153	155					1.49	0.26
39	60.1	9.8	6.26	163.8	367.1	10.29	1387	2245	2106	1824	2298	4628	6733	6818	6756	6927	650	1038	644	1007	680	1013	663	1105	154	156					1.49	0.26
40	60.0	9.8	6.29	162.2	369.2	10.21	1391	2233	2123	1784	2305	4596	6736	6818	6718	6927	650	1033	644	1028	679	1010	663	1105	154	155					1.50	0.26
41	60.0	9.8	6.27	161.5	367.6	10.26	1384	2211	2112	1787	2285	4614	6771	6812	6765	6930	652	1033	643	1015	681	1013	663	1109	154	155					1.48	0.26
42	60.0	9.8	6.28	164.1	368.4	10.23	1388	2232	2116	1796	2302	4615	6727	6815	6815	6939	650	1034	644	1029	680	1014	662	1105	154	156					1.50	0.26

ΩNOTE: Test stopped after cycle 42 due to failure of caliper seals.

*NOTE: Temperatures not recorded.

Test Number: M20-031-22
Friction Material: PFC 50-FF
Rotor Part No.: Webb 54775P-65

Report Number: 133689-1
Four Products, LLC

CYCLE	SPEED		TIME		DISTANCE TO STOP	DECEL	PRESSURE					TORQUE					TEMPERATURE ROTOR INBOARD		ROTOR OUTBOARD		PADS INBOARD		PADS OUTBOARD		FLUID		CALIPER INBOARD		CALIPER OUTBOARD		FLUID DISP	FRIC. COEF.
NO.	INIT	FNL	STOP	REPT		AVG	AVG	INIT	SUST	END	MAX	AVG	INIT	SUST	END	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	MAX	AVG
	mi/h		s		ft	ft/s²	lbf/in²					lbf·ft					°F														in²	μ
1	60.0	9.8	6.11	103.9	354.1	10.66	1311	2094	1964	1638	2128	4800	6753	6818	6739	6930	530	935	550	942	527	751	455	854	77	79	102	103	80	81	1.33	0.29
2	60.0	9.8	6.07	178.0	350.3	10.78	1286	1930	1913	1600	2043	4844	6756	6795	6771	6939	534	944	550	949	559	775	511	873	86	88	128	128	91	92	1.33	0.29
3	60.0	9.8	6.04	186.8	348.6	10.83	1263	1885	1867	1560	2010	4871	6756	6792	6792	6925	532	928	550	947	567	783	536	875	97	98	144	145	101	102	1.34	0.30
4	60.1	9.8	6.04	190.0	349.2	10.82	1271	1882	1884	1586	2014	4864	6750	6789	6762	6933	531	940	549	951	570	787	545	884	105	106	156	156	108	110	1.36	0.30
5	60.0	9.8	6.04	189.6	348.7	10.83	1258	1880	1857	1547	1986	4865	6736	6795	6830	6925	532	933	549	954	572	792	550	885	111	114	165	166	115	117	1.37	0.30
6	60.0	9.8	6.06	191.5	350.5	10.77	1268	1887	1876	1593	1997	4847	6745	6792	6768	6904	532	940	550	953	572	788	551	890	117	119	170	171	122	123	1.39	0.30
7	60.0	9.8	6.04	190.0	349.3	10.79	1256	1840	1850	1552	1972	4854	6756	6789	6804	6904	534	938	549	959	572	797	555	891	121	124	176	177	127	128	1.39	0.30
8	60.0	9.8	6.05	187.5	350.0	10.77	1259	1847	1854	1551	1981	4847	6736	6789	6786	6901	538	943	550	952	575	792	557	893	124	126	178	179	131	133	1.40	0.30
9	60.0	9.8	6.06	187.1	350.4	10.77	1263	1876	1859	1570	1983	4848	6765	6792	6821	6904	540	945	549	957	576	797	560	905	127	129	181	182	134	136	1.41	0.30
10	60.0	9.8	6.05	188.4	350.3	10.77	1249	1826	1831	1531	1954	4841	6724	6789	6801	6901	540	947	549	961	576	797	561	900	129	132	184	184	137	139	1.41	0.30
11	60.0	9.8	6.05	189.5	349.7	10.77	1247	1847	1825	1540	1947	4853	6742	6792	6827	6910	539	950	549	965	577	804	560	903	132	134	186	187	140	142	1.41	0.30
12	60.0	9.8	6.05	187.1	350.1	10.79	1249	1883	1833	1530	1959	4843	6750	6801	6780	6901	542	950	550	962	579	801	562	903	134	135	187	188	142	144	1.43	0.30
13	60.0	9.8	6.05	190.1	349.5	10.79	1246	1840	1821	1534	1940	4856	6736	6795	6830	6907	540	951	550	958	576	798	562	908	133	136	189	190	143	145	1.42	0.30
14	60.0	9.8	6.06	186.6	350.9	10.75	1248	1856	1827	1554	1950	4842	6736	6795	6815	6913	544	949	549	958	579	801	565	909	135	138	189	190	145	146	1.43	0.30
15	60.0	9.8	6.05	188.9	350.2	10.75	1244	1845	1818	1533	1938	4851	6759	6795	6827	6913	544	956	549	957	579	802	566	911	136	138	191	192	146	148	1.44	0.30
16	60.0	9.8	6.05	187.7	349.9	10.78	1242	1865	1814	1527	1934	4852	6777	6801	6762	6919	544	957	549	958	579	802	566	910	138	140	191	192	148	149	1.44	0.30
17	60.1	9.8	6.06	189.0	350.8	10.77	1240	1847	1810	1528	1932	4843	6768	6795	6836	6930	541	952	550	954	576	803	566	907	138	140	191	191	148	150	1.44	0.30
18	60.0	9.8	6.05	184.0	349.8	10.79	1237	1814	1803	1517	1925	4844	6748	6792	6780	6922	544	956	549	959	577	805	566	914	138	140	190	191	148	150	1.45	0.31
19	60.0	9.8	6.05	185.5	350.0	10.79	1234	1805	1796	1510	1915	4846	6759	6792	6774	6939	540	949	550	954	575	803	564	910	138	139	188	190	148	149	1.45	0.31
20	60.1	9.8	6.05	185.3	349.9	10.80	1231	1828	1790	1532	1901	4857	6745	6798	6789	6916	539	949	550	958	573	806	563	914	138	140	189	189	148	149	1.45	0.31
21	60.0	9.8	6.04	183.6	349.2	10.81	1229	1799	1785	1511	1903	4859	6774	6789	6765	6916	543	954	549	957	575	805	565	915	138	140	189	190	148	150	1.45	0.31
22	60.1	9.8	6.04	185.2	349.1	10.82	1227	1794	1782	1499	1899	4859	6748	6792	6783	6925	541	950	550	952	573	803	564	919	138	140	189	190	148	150	1.46	0.31
23	60.1	9.8	6.05	183.7	350.0	10.80	1229	1842	1786	1522	1908	4859	6768	6801	6786	6930	542	947	550	951	574	805	564	916	139	139	188	190	148	150	1.46	0.31
24	60.0	9.8	6.03	182.8	348.8	10.82	1227	1802	1781	1496	1896	4863	6739	6795	6809	6913	544	954	549	950	575	806	565	922	139	140	188	190	149	149	1.46	0.31
25	60.0	9.8	6.05	183.1	349.5	10.78	1227	1816	1778	1493	1900	4855	6739	6798	6815	6913	544	955	550	947	575	806	565	922	139	140	188	190	148	150	1.47	0.31
26	60.0	9.8	6.05	179.9	350.5	10.75	1229	1814	1784	1495	1902	4841	6748	6795	6789	6916	547	960	549	944	577	804	568	931	139	140	190	190	149	150	1.48	0.31
27	60.0	9.8	6.04	181.6	350.4	10.75	1230	1823	1785	1503	1901	4842	6748	6798	6824	6919	547	959	549	946	576	807	568	929	139	141	189	191	149	151	1.48	0.31
28	60.0	9.8	6.06	181.8	350.3	10.77	1232	1809	1789	1504	1912	4842	6768	6795	6753	6939	548	966	549	947	578	810	570	942	139	141	190	191	148	150	1.49	0.31
29	60.1	9.8	6.08	185.0	352.2	10.72	1231	1784	1783	1512	1903	4827	6748	6789	6821	6927	544	955	550	950	575	810	568	932	139	141	191	191	149	150	1.49	0.31
30	60.0	9.8	6.05	181.8	349.8	10.78	1224	1824	1769	1506	1884	4859	6768	6801	6815	6907	547	966	549	950	577	812	567	946	139	141	191	191	148	150	1.49	0.31
31	60.0	9.8	6.05	182.3	350.2	10.76	1222	1814	1763	1484	1882	4851	6739	6801	6836	6910	548	959	550	950	577	812	568	930	139	141	190	192	148	150	1.50	0.31
32	60.0	9.8	6.06	181.8	350.8	10.76	1224	1789	1766	1489	1889	4837	6739	6795	6739	6919	547	967	549	950	578	815	568	947	140	141	190	191	149	150	1.51	0.31
33	60.0	9.8	6.06	182.8	351.0	10.75	1222	1769	1766	1496	1882	4842	6745	6792	6783	6945	542	962	550	944	577	812	567	942	139	141	190	192	150	150	1.51	0.31

HIGH TEMPERATURE TEST #2 - WITHOUT COOLSHIMS

60-10 mi/h - 15.0 ft/s² Deceleration Rate - 550°F Initial Rotor Temperature - 30 Second Minimum Time Cycle

ΩNOTE: Test stopped after cycle 33 due to failure of caliper seals.

Test Number: M20-031-22
Friction Material: PFC 50-FF
Rotor Part No.: Webb 54775P-65

Report Number: 133689-1
Four Products, LLC

HIGH TEMPERATURE TEST #3 - WITH COOLSHIMS

60-10 mi/h - 15.0 ft/s² Deceleration Rate - 550°F Initial Rotor Temperature - 30 Second Minimum Time Cycle

	SPEED		TIME		DISTANCE	DECEL	PRESSURE					TORQUE					TEMPERATURE														FLUID	FRIC.
					TO												ROTOR				PADS				CALIPER								
CYCLE					STOP												INBOARD		OUTBOARD		INBOARD		OUTBOARD		FLUID		INBOARD		OUTBOARD		DISP	COEF.
NO.	INIT	FNL	STOP	REPT		AVG	AVG	INIT	SUST	END	MAX	AVG	INIT	SUST	END	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	MAX	AVG
	mi/h		s		ft	ft/s²	lbf/in²					lbf·ft					°F														in²	μ
1	60.1	9.8	6.01	28.1	345.7	10.93	1256	1857	1855	1618	1944	4915	6745	6789	6807	6901	518	953	490	939	452	760	404	784	62	65	71	73	63	64	1.24	0.31
2	60.0	9.8	6.04	138.2	348.9	10.82	1213	1728	1744	1589	1799	4861	6756	6780	6827	6889	549	964	529	957	502	792	480	807	68	69	92	93	70	71	1.19	0.31
3	60.1	9.8	6.05	176.5	349.7	10.80	1217	1738	1751	1581	1821	4849	6786	6780	6774	6898	549	971	534	961	540	823	529	852	76	79	112	113	80	81	1.21	0.31
4	60.0	10.0	6.04	186.0	349.6	10.76	1218	1761	1755	1548	1827	4842	6777	6789	6756	6913	551	973	534	959	554	827	543	851	86	87	127	128	90	91	1.21	0.31
5	60.0	9.8	6.06	190.6	350.7	10.76	1217	1739	1752	1525	1834	4839	6768	6783	6824	6910	550	973	532	951	559	838	547	860	94	95	138	139	99	101	1.22	0.31
6	60.0	9.8	6.06	188.5	350.9	10.75	1217	1726	1751	1524	1837	4843	6762	6783	6804	6898	552	974	536	963	563	839	551	862	100	101	146	147	108	110	1.23	0.31
7	60.0	9.8	6.07	193.2	351.7	10.73	1222	1740	1758	1510	1852	4835	6745	6783	6765	6901	550	966	534	952	563	834	552	861	104	107	153	153	115	117	1.24	0.31
8	60.0	9.8	6.06	193.7	350.6	10.77	1216	1752	1748	1514	1836	4836	6759	6789	6848	6901	550	968	532	950	562	833	551	862	108	110	156	157	121	122	1.23	0.31
9	60.0	9.8	6.06	189.4	350.7	10.76	1211	1733	1735	1488	1814	4844	6780	6786	6821	6910	550	969	535	955	564	834	551	863	110	112	159	160	124	126	1.23	0.31
10	60.0	9.8	6.07	190.2	351.1	10.74	1218	1780	1748	1483	1836	4840	6742	6798	6765	6916	550	970	535	956	563	834	552	862	111	113	161	162	127	129	1.24	0.31
11	60.0	9.8	6.07	193.8	352.1	10.72	1216	1742	1743	1486	1829	4832	6733	6786	6759	6913	550	969	532	954	561	834	551	863	113	114	162	163	130	131	1.23	0.31
12	60.0	9.8	6.07	194.5	351.5	10.74	1211	1727	1735	1489	1819	4837	6748	6786	6824	6916	549	970	530	955	561	834	551	864	113	115	163	163	132	133	1.23	0.31
13	60.0	9.8	6.07	192.9	351.8	10.71	1214	1768	1738	1490	1823	4832	6750	6798	6756	6925	550	964	532	953	562	830	551	862	113	115	162	165	133	134	1.23	0.31
14	60.0	9.8	6.07	195.7	351.4	10.72	1213	1764	1738	1496	1823	4839	6736	6795	6753	6919	549	966	530	954	561	831	550	869	114	115	164	165	134	135	1.23	0.31
15	60.1	9.8	6.07	194.5	351.7	10.74	1213	1736	1739	1482	1834	4830	6748	6789	6759	6933	549	969	529	950	561	835	550	862	115	116	163	164	134	136	1.23	0.31
16	60.0	9.8	6.07	196.2	351.3	10.74	1209	1735	1729	1484	1820	4830	6742	6792	6824	6930	550	963	529	952	560	833	549	872	114	116	163	164	135	136	1.23	0.31
17	60.0	9.8	6.07	191.8	351.3	10.73	1215	1771	1743	1501	1835	4828	6759	6795	6756	6930	549	964	533	955	561	831	551	870	114	116	164	165	136	137	1.24	0.31
18	60.0	9.8	6.08	194.8	352.1	10.70	1214	1767	1737	1494	1841	4827	6745	6798	6739	6933	550	965	531	955	560	833	552	880	115	116	164	165	136	137	1.24	0.31
19	60.0	9.8	6.06	195.5	351.3	10.73	1210	1756	1732	1496	1822	4830	6742	6798	6736	6930	549	965	530	953	561	832	550	872	115	117	165	166	136	137	1.23	0.31
20	60.0	9.8	6.07	195.1	351.6	10.71	1207	1757	1724	1481	1823	4830	6750	6798	6745	6942	551	960	529	958	560	828	550	881	115	116	164	166	136	138	1.23	0.31
21	60.0	9.8	6.07	194.2	351.6	10.71	1210	1768	1732	1489	1822	4828	6750	6798	6742	6951	551	965	529	951	560	828	550	870	115	117	165	166	137	138	1.23	0.31
22	60.0	9.8	6.07	196.2	351.5	10.74	1208	1729	1724	1475	1811	4834	6777	6789	6821	6919	548	968	527	958	559	832	549	885	115	117	165	166	136	139	1.23	0.31
23	60.0	9.8	6.06	193.5	352.3	10.72	1214	1740	1738	1473	1829	4828	6739	6792	6783	6939	549	973	532	957	560	836	550	877	116	117	165	167	137	139	1.24	0.31
24	60.1	9.8	6.07	197.3	351.0	10.76	1203	1720	1717	1489	1807	4834	6745	6786	6750	6930	552	969	530	950	560	831	550	888	115	118	166	168	138	139	1.23	0.31
25	60.0	9.8	6.07	195.4	351.7	10.73	1208	1721	1726	1478	1819	4834	6733	6789	6745	6933	550	970	530	954	560	834	549	878	117	118	167	168	137	139	1.23	0.31
26	60.0	9.8	6.06	197.6	350.9	10.73	1200	1715	1708	1471	1814	4842	6768	6786	6750	6942	550	967	528	956	558	828	548	895	116	119	166	167	137	139	1.23	0.31
27	60.0	9.8	6.06	196.7	350.4	10.77	1204	1751	1719	1497	1822	4841	6774	6798	6753	6927	550	984	529	954	558	844	547	878	116	118	166	168	137	139	1.23	0.31
28	60.0	9.8	6.06	193.2	350.1	10.78	1203	1728	1718	1496	1812	4846	6756	6792	6818	6927	552	973	532	959	562	834	548	905	117	119	167	168	137	139	1.23	0.31
29	60.0	9.8	6.06	193.8	351.2	10.74	1212	1775	1735	1488	1838	4840	6742	6798	6762	6927	550	976	535	959	561	843	551	880	116	118	167	168	138	139	1.24	0.31
30	60.0	9.8	6.06	198.0	350.6	10.74	1206	1763	1722	1491	1809	4840	6771	6801	6742	6948	550	974	531	953	560	836	547	904	117	118	167	168	137	139	1.23	0.31
31	60.0	9.8	6.05	195.7	350.2	10.78	1207	1753	1726	1499	1834	4836	6792	6795	6750	6948	549	978	529	955	560	840	548	877	117	118	167	168	138	139	1.24	0.31
32	60.1	9.8	6.06	194.6	351.0	10.77	1202	1726	1713	1474	1807	4845	6807	6792	6827	6957	549	977	532	951	561	844	547	907	116	119	167	168	137	139	1.23	0.31
33	60.0	9.8	6.07	193.1	351.1	10.75	1205	1723	1721	1468	1818	4840	6745	6792	6765	6933	549	976	534	964	562	847	549	887	117	118	167	168	138	139	1.24	0.31
34	60.1	9.8	6.07	196.5	351.0	10.76	1205	1735	1720	1474	1828	4843	6786	6792	6821	6954	549	976	532	951	561	847	548	904	116	118	167	168	137	139	1.24	0.31
35	60.1	9.8	6.08	193.3	352.3	10.72	1219	1790	1750	1494	1863	4827	6736	6801	6748	6948	551	979	535	962	563	846	552	888	116	118	167	168	138	139	1.26	0.31
36	60.0	9.8	6.06	204.3	350.3	10.75	1195	1710	1701	1481	1800	4845	6742	6786	6727	6945	551	987	531	955	558	855	546	903	118	118	162	164	137	138	1.24	0.32
37	60.0	9.8	6.04	205.5	348.9	10.81	1190	1721	1691	1488	1791	4867	6748	6795	6786	6939	550	979	530	970	555	846	543	895	116	118	158	160	136	137	1.23	0.32
38	60.0	9.8	6.05	202.1	349.6	10.78	1195	1705	1702	1461	1810	4860	6759	6789	6786	6951	550	980	537	956	557	851	542	901	116	117	156	158	135	137	1.25	0.32
39	60.0	9.8	6.06	204.3	350.2	10.78	1196	1735	1704	1461	1816	4853	6753	6795	6839	6948	550	986	535	963	556	854	542	890	115	117	155	156	134	135	1.25	0.32
40	60.0	9.8	6.04	204.1	348.8	10.82	1190	1722	1693	1476	1798	4863	6750	6798	6736	6954	549	979	536	957	556	852	542	908	115	116	154	155	133	134	1.24	0.32

HIGH TEMPERATURE TEST #3 - WITH COOLSHIMS - CONTINUED

60-10 mi/h - 15.0 ft/s² Deceleration Rate - 550°F Initial Rotor Temperature - 30 Second Minimum Time Cycle

	SPEED		TIME		DISTANCE	DECEL	PRESSURE					TORQUE					TEMPERATURE												FLUID	FRIC.
					TO												ROTOR				PADS				CALIPER					
CYCLE					STOP												INBOARD		OUTBOARD		INBOARD		OUTBOARD		FLUID		INBOARD		OUTBOARD		DISP	COEF.
NO.	INIT	FNL	STOP	REPT		AVG	AVG	INIT	SUST	END	MAX	AVG	INIT	SUST	END	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	MAX	AVG
	mi/h		s		ft	ft/s²	lbf/in²					lbf·ft					°F														in²	μ
41	60.0	9.8	6.05	203.3	349.4	10.80	1199	1743	1711	1486	1815	4853	6759	6798	6730	6954	550	986	534	964	555	860	543	888	114	116	153	155	133	135	1.25	0.32
42	60.0	9.8	6.04	205.2	348.7	10.80	1185	1689	1684	1466	1785	4869	6736	6789	6739	6957	550	971	533	969	555	853	542	919	114	116	153	154	133	134	1.24	0.32
43	60.0	9.8	6.05	205.6	349.9	10.77	1198	1777	1708	1473	1820	4857	6762	6807	6809	6939	550	987	532	962	554	863	541	887	114	116	152	154	132	133	1.26	0.32
44	60.0	9.8	6.05	204.0	349.5	10.79	1193	1724	1698	1479	1806	4858	6768	6792	6818	6945	550	970	533	970	555	853	540	919	113	115	152	153	132	134	1.25	0.32
45	60.0	9.8	6.04	203.2	349.5	10.80	1197	1730	1707	1497	1805	4859	6739	6795	6789	6942	550	985	537	960	555	865	542	881	113	115	152	153	132	133	1.26	0.32
46	60.0	9.8	6.04	202.1	348.7	10.81	1187	1744	1686	1463	1791	4869	6774	6801	6739	6936	550	980	539	973	556	858	541	920	113	115	152	153	131	132	1.25	0.32
47	60.1	9.8	6.04	205.6	348.7	10.83	1192	1730	1698	1487	1808	4863	6756	6798	6733	6942	550	978	534	955	555	859	540	876	113	115	152	153	131	132	1.26	0.32
48	60.0	9.8	6.06	203.6	350.0	10.77	1198	1722	1706	1468	1808	4854	6733	6789	6765	6960	551	983	533	968	554	862	542	927	112	115	152	153	131	133	1.26	0.32
49	60.0	9.8	6.04	204.6	348.5	10.83	1190	1741	1693	1476	1798	4866	6733	6798	6742	6966	550	978	532	944	555	861	540	878	114	114	152	153	131	133	1.26	0.32
50	60.0	9.8	6.08	204.2	348.9	10.79	1184	1706	1676	1468	1780	4864	6780	6792	6753	6939	550	979	532	975	555	865	539	928	113	115	152	153	131	133	1.25	0.32
51	60.0	9.8	6.03	203.5	348.4	10.82	1183	1709	1678	1454	1793	4873	6721	6792	6739	6972	550	972	532	948	553	860	540	892	112	114	152	153	131	132	1.26	0.32
52	60.1	9.8	6.05	205.1	349.7	10.80	1192	1722	1697	1492	1803	4862	6762	6795	6830	6945	550	982	531	970	553	869	540	918	113	114	152	153	131	133	1.26	0.32
53	60.0	9.8	6.04	200.3	349.1	10.81	1191	1703	1694	1465	1807	4871	6742	6792	6815	6945	549	966	536	962	556	855	541	910	113	114	151	153	130	132	1.26	0.32
54	60.0	9.8	6.05	201.1	349.6	10.79	1196	1748	1704	1493	1807	4856	6748	6798	6733	6945	550	989	538	980	557	878	543	929	113	114	152	153	131	132	1.26	0.32
55	60.0	9.8	6.04	203.9	349.2	10.81	1192	1738	1701	1478	1817	4858	6739	6801	6756	6960	550	975	536	936	556	863	542	890	112	114	153	153	132	132	1.27	0.32
56	59.9	9.8	6.05	203.5	349.4	10.77	1188	1744	1688	1463	1796	4857	6745	6804	6727	6951	549	980	535	979	555	873	542	927	113	115	153	153	131	133	1.26	0.32
57	60.0	9.8	6.02	202.8	348.9	10.82	1184	1703	1681	1458	1791	4879	6759	6792	6827	6939	550	973	533	949	555	866	541	908	114	115	152	153	131	132	1.26	0.32
58	60.0	9.8	6.06	201.8	349.9	10.77	1185	1704	1681	1451	1793	4858	6762	6792	6768	6960	550	977	537	980	556	870	540	931	114	115	152	154	131	132	1.26	0.32
59	60.0	9.8	6.04	203.7	349.3	10.80	1189	1721	1693	1479	1805	4864	6783	6798	6795	6948	550	978	535	950	555	870	539	889	113	115	152	154	131	132	1.27	0.32
60	60.0	9.8	6.04	202.6	349.3	10.80	1189	1731	1687	1482	1792	4858	6745	6801	6742	6942	549	978	536	983	556	875	539	942	113	115	152	153	130	132	1.26	0.32
61	60.0	9.8	6.04	202.6	348.9	10.79	1182	1681	1675	1440	1784	4865	6727	6789	6745	6948	551	975	537	950	556	870	540	897	113	114	152	153	131	132	1.26	0.32
62	60.0	9.8	6.06	205.0	350.4	10.76	1196	1723	1704	1480	1812	4847	6748	6795	6833	6933	549	981	534	969	555	875	538	937	113	114	152	153	131	132	1.27	0.32
63	60.0	9.8	6.05	201.7	349.8	10.77	1188	1700	1686	1449	1786	4857	6730	6795	6786	6939	551	972	538	967	557	872	538	919	112	114	152	153	130	132	1.26	0.32
64	60.0	9.8	6.06	204.2	350.5	10.75	1193	1709	1695	1463	1803	4852	6733	6789	6795	6939	549	983	535	971	554	881	538	929	113	114	152	153	131	132	1.27	0.32
65	60.0	9.8	6.04	203.2	349.3	10.81	1186	1721	1683	1470	1792	4865	6759	6798	6821	6948	550	976	535	963	556	876	539	910	112	114	152	153	131	132	1.27	0.32
66	60.0	9.8	6.06	201.8	350.2	10.76	1190	1720	1691	1456	1798	4853	6756	6792	6756	6945	549	974	539	972	557	873	540	937	113	114	153	153	131	132	1.27	0.32
67	60.1	9.8	6.05	204.0	349.8	10.80	1189	1724	1688	1469	1796	4861	6795	6798	6830	6942	550	984	535	962	555	880	539	906	113	114	151	153	130	132	1.27	0.32
68	60.0	9.8	6.06	201.8	350.3	10.76	1186	1703	1685	1449	1793	4852	6748	6792	6759	6927	549	974	538	971	556	874	540	939	113	114	152	153	130	132	1.27	0.32
69	60.0	9.8	6.05	205.5	349.4	10.78	1183	1697	1676	1451	1777	4861	6765	6795	6777	6954	550	978	534	959	555	877	538	907	112	115	152	153	131	132	1.27	0.32
70	60.0	9.8	6.04	204.7	349.3	10.78	1185	1739	1684	1454	1782	4860	6736	6804	6733	6942	550	981	534	962	555	877	538	940	113	114	151	153	130	132	1.27	0.32
71	60.0	9.8	6.04	205.2	348.9	10.81	1186	1734	1685	1466	1794	4858	6762	6804	6762	6948	550	984	532	954	554	881	536	891	113	116	152	153	131	132	1.28	0.32
72	60.0	9.8	6.05	203.7	349.4	10.78	1182	1683	1675	1448	1780	4857	6750	6789	6756	6954	550	981	534	965	554	879	538	941	113	115	151	153	130	132	1.27	0.32
73	60.0	9.8	6.04	205.0	348.8	10.80	1180	1693	1672	1441	1783	4872	6768	6795	6801	6933	550	977	532	964	553	878	538	925	112	114	151	153	131	133	1.27	0.32
74	60.0	9.8	6.04	204.1	348.7	10.82	1187	1741	1687	1455	1791	4861	6780	6804	6742	6951	550	981	533	966	553	882	538	935	112	114	151	153	131	133	1.28	0.32
75	60.0	9.8	6.03	203.8	348.4	10.84	1185	1740	1684	1476	1788	4871	6765	6804	6745	6948	550	981	532	962	553	882	538	921	113	114	151	153	130	132	1.27	0.32
76	60.0	9.8	6.01	203.9	347.7	10.83	1175	1696	1662	1431	1771	4874	6739	6792	6809	6945	550	983	533	968	554	882	538	949	112	114	152	153	131	132	1.27	0.32
77	60.1	9.8	6.03	201.9	349.0	10.82	1186	1734	1684	1455	1792	4870	6780	6801	6792	6933	550	979	533	967	554	884	538	910	112	114	151	153	130	133	1.28	0.32
78	60.0	9.8	6.03	201.6	347.7	10.85	1175	1720	1664	1433	1762	4876	6745	6804	6762	6925	550	987	537	970	556	891	539	952	113	114	151	153	130	132	1.27	0.32
79	59.9	9.8	6.04	204.7	347.4	10.83	1178	1731	1670	1439	1782	4878	6745	6807	6756	6948	550	980	533	965	554	886	538	925	112	114	152	153	131	132	1.28	0.32
80	60.1	9.8	6.03	205.5	348.2	10.85	1176	1711	1661	1443	1766	4882	6759	6804	6792	6942	549	985	532	964	554	888	538	942	112	114	151	153	131	132	1.27	0.32

CYCLE NO.	SPEED INIT	SPEED FNL	TIME STOP	TIME REPT	DISTANCE TO STOP	DECEL AVG	PRESSURE AVG	PRESSURE INIT	PRESSURE SUST	PRESSURE END	PRESSURE MAX	TORQUE AVG	TORQUE INIT	TORQUE SUST	TORQUE END	TORQUE MAX	TEMPERATURE ROTOR INBOARD INIT	TEMPERATURE ROTOR INBOARD MAX	TEMPERATURE ROTOR OUTBOARD INIT	TEMPERATURE ROTOR OUTBOARD MAX	TEMPERATURE PADS INBOARD INIT	TEMPERATURE PADS INBOARD MAX	TEMPERATURE PADS OUTBOARD INIT	TEMPERATURE PADS OUTBOARD MAX	TEMPERATURE FLUID INIT	TEMPERATURE FLUID MAX	TEMPERATURE CALIPER INBOARD INIT	TEMPERATURE CALIPER INBOARD MAX	TEMPERATURE CALIPER OUTBOARD INIT	TEMPERATURE CALIPER OUTBOARD MAX	FLUID DISP	FRIC. COEF.
NO.	INIT	FNL	STOP	REPT	TO STOP	AVG	AVG	INIT	SUST	END	MAX	AVG	INIT	SUST	END	MAX	INBOARD INIT	INBOARD MAX	OUTBOARD INIT	OUTBOARD MAX	INBOARD INIT	INBOARD MAX	OUTBOARD INIT	OUTBOARD MAX	FLUID INIT	FLUID MAX	INBOARD INIT	INBOARD MAX	OUTBOARD INIT	OUTBOARD MAX	MAX	AVG
	mi/h		s		ft	ft/s²	lbf/in²					lbf·ft					°F														in²	μ
HIGH TEMPERATURE TEST #3 - WITH COOLSHIMS - CONTINUED																																
60-10 mi/h - 15.0 ft/s² Deceleration Rate - 550°F Initial Rotor Temperature - 30 Second Minimum Time Cycle																																
81	60.0	9.8	6.03	201.1	348.1	10.84	1181	1720	1673	1432	1787	4873	6739	6804	6762	6927	550	987	538	968	555	891	539	938	112	114	151	153	130	132	1.27	0.32
82	60.0	9.8	6.02	204.4	348.2	10.84	1175	1725	1662	1442	1769	4875	6753	6807	6753	6942	550	982	533	966	554	892	539	951	112	114	151	153	131	132	1.27	0.32
83	60.0	9.8	6.03	204.0	348.4	10.83	1179	1706	1672	1460	1782	4881	6783	6798	6780	6936	550	988	531	961	553	896	539	924	111	114	152	153	132	132	1.27	0.32
84	60.0	9.8	6.03	201.3	348.3	10.84	1180	1730	1673	1451	1767	4869	6771	6801	6750	6936	550	984	536	973	555	893	540	953	112	114	151	152	131	132	1.27	0.32
85	60.0	9.8	6.02	203.3	347.3	10.85	1176	1723	1667	1444	1770	4885	6750	6801	6768	6930	550	992	533	958	554	900	540	924	112	114	152	153	132	132	1.27	0.32
86	60.0	9.8	6.04	205.1	348.7	10.82	1183	1726	1678	1451	1775	4866	6765	6804	6762	6933	549	977	532	973	553	890	537	963	112	114	151	153	130	132	1.27	0.32
87	60.0	9.8	6.03	203.2	348.2	10.84	1184	1726	1684	1451	1787	4873	6762	6801	6742	6925	550	992	531	955	554	905	538	918	113	114	151	153	130	132	1.27	0.32
88	60.1	9.8	6.03	203.5	348.2	10.85	1178	1720	1668	1463	1763	4882	6765	6801	6762	6927	550	981	531	969	552	893	539	961	112	115	151	154	131	132	1.26	0.32
89	60.0	9.8	6.03	204.0	348.5	10.83	1187	1705	1688	1470	1792	4873	6753	6789	6809	6930	550	996	533	955	552	911	540	909	111	114	152	153	131	132	1.28	0.32
90	60.0	9.8	6.05	202.0	349.8	10.78	1189	1747	1690	1453	1781	4860	6753	6804	6780	6925	550	971	536	973	554	892	540	967	111	114	152	153	131	132	1.28	0.32
91	60.1	9.8	6.04	204.2	349.1	10.82	1192	1732	1699	1462	1800	4867	6756	6801	6798	6942	550	1001	534	951	554	911	538	914	113	114	152	153	131	133	1.29	0.32
92	60.1	9.8	6.04	203.3	348.4	10.85	1181	1704	1676	1462	1767	4877	6748	6798	6812	6919	550	982	535	972	555	897	539	967	112	113	152	153	130	132	1.27	0.32
93	60.0	9.8	6.03	202.3	348.0	10.82	1183	1693	1677	1436	1781	4878	6748	6792	6830	6919	550	989	536	953	555	906	540	928	112	113	151	153	131	132	1.28	0.32
94	60.0	9.8	6.03	202.9	348.7	10.82	1183	1713	1677	1455	1780	4873	6759	6795	6818	6933	550	978	535	972	555	898	540	977	112	114	152	153	130	132	1.28	0.32
95	60.1	9.8	6.04	202.1	348.9	10.83	1185	1733	1684	1455	1790	4868	6771	6804	6777	6954	548	988	536	950	555	907	540	920	112	114	152	153	131	132	1.29	0.32
96	60.0	9.8	6.03	204.0	348.7	10.83	1179	1726	1672	1449	1772	4869	6753	6804	6753	6954	550	990	536	965	554	910	540	974	112	114	151	153	131	133	1.28	0.32
97	60.0	9.8	6.03	203.5	347.5	10.86	1178	1689	1671	1441	1777	4880	6753	6789	6745	6948	550	987	535	954	554	909	540	924	112	114	152	153	131	133	1.28	0.32
98	60.0	9.8	6.04	204.7	348.8	10.81	1178	1696	1666	1430	1770	4869	6750	6795	6818	6945	550	981	532	963	553	904	539	975	112	114	152	153	131	132	1.28	0.32
99	60.0	9.8	6.04	203.6	348.8	10.82	1181	1709	1675	1441	1780	4878	6748	6798	6824	6945	550	985	532	949	552	911	539	934	112	114	151	153	131	133	1.28	0.32
100	60.0	9.8	6.04	201.7	348.9	10.80	1185	1702	1683	1453	1787	4868	6750	6792	6780	6936	550	980	536	970	553	907	541	977	111	114	151	153	131	132	1.29	0.32
101	60.0	9.8	6.04	204.7	349.4	10.80	1190	1766	1693	1458	1802	4868	6750	6807	6818	6939	550	986	533	945	553	915	539	919	112	114	152	154	131	133	1.30	0.32
102	60.0	9.8	6.03	202.6	348.3	10.83	1184	1736	1680	1453	1778	4871	6756	6801	6742	6942	549	978	537	967	555	910	538	986	112	114	152	153	131	132	1.29	0.32
103	60.0	9.8	6.05	205.2	349.7	10.79	1191	1747	1695	1444	1811	4854	6756	6804	6727	6939	548	982	532	940	554	916	537	920	113	114	151	153	130	132	1.30	0.32
104	60.1	9.8	6.05	204.9	348.6	10.83	1178	1703	1667	1450	1776	4873	6745	6798	6774	6945	549	978	530	965	552	911	537	979	113	114	151	153	130	132	1.28	0.32
105	60.1	9.8	6.04	202.8	349.0	10.83	1185	1709	1683	1456	1787	4867	6753	6798	6756	6951	549	979	534	958	553	914	538	946	113	114	151	153	130	132	1.29	0.32
106	60.0	9.8	6.03	202.1	348.2	10.83	1185	1715	1682	1464	1787	4883	6783	6798	6798	6936	550	983	536	970	554	916	538	983	112	114	151	153	130	132	1.29	0.32
107	60.1	9.8	6.03	202.1	348.2	10.85	1181	1702	1673	1451	1773	4879	6745	6795	6780	6933	548	982	537	960	555	920	539	950	112	114	151	154	130	132	1.29	0.32
108	60.0	9.8	6.04	202.6	349.1	10.79	1190	1743	1693	1445	1810	4873	6762	6804	6809	6942	550	975	537	969	555	912	539	975	111	114	152	153	131	132	1.30	0.32
109	60.1	9.8	6.04	204.3	349.2	10.82	1187	1720	1686	1460	1790	4863	6742	6801	6801	6945	550	991	533	963	554	926	537	955	112	114	151	152	131	132	1.30	0.32
110	60.0	9.8	6.03	201.4	347.7	10.84	1175	1694	1663	1446	1772	4885	6774	6795	6812	6948	551	985	536	956	555	924	539	962	111	114	152	153	130	132	1.29	0.32
111	60.0	9.8	6.04	201.2	348.7	10.82	1189	1735	1690	1457	1800	4863	6765	6801	6765	6933	550	992	538	969	555	935	539	971	112	114	151	153	130	132	1.30	0.32
112	60.0	9.8	6.02	204.4	347.3	10.85	1171	1679	1654	1422	1759	4890	6756	6795	6783	6954	550	977	533	960	554	921	538	966	111	114	151	153	131	132	1.28	0.33
113	60.0	9.8	6.03	204.2	348.1	10.82	1184	1705	1680	1427	1787	4878	6753	6795	6783	6933	550	984	532	961	553	926	537	960	111	114	151	153	131	132	1.30	0.32
114	60.0	9.8	6.04	204.2	348.9	10.81	1190	1743	1691	1441	1792	4863	6745	6804	6748	6951	550	980	532	957	553	922	536	975	112	113	150	153	130	131	1.30	0.32
115	60.0	9.8	6.04	203.4	348.5	10.81	1186	1747	1684	1418	1791	4867	6742	6807	6753	6936	550	981	531	955	551	926	537	966	111	113	152	152	132	132	1.30	0.32
116	60.1	9.8	6.04	204.9	348.9	10.83	1182	1703	1677	1433	1778	4872	6771	6798	6824	6930	550	978	531	956	551	924	535	970	112	114	151	152	130	132	1.29	0.32
117	60.0	9.8	6.03	200.2	348.2	10.84	1181	1739	1674	1437	1782	4875	6780	6801	6745	6963	550	979	534	967	553	925	537	975	111	113	151	152	130	132	1.30	0.32
118	60.0	9.8	6.02	204.1	347.4	10.87	1176	1683	1664	1419	1770	4884	6739	6792	6724	6939	550	984	530	954	552	933	537	969	112	113	151	153	130	132	1.29	0.32
119	60.0	9.8	6.02	202.9	347.3	10.85	1175	1688	1665	1422	1767	4884	6750	6795	6753	6954	551	982	530	963	551	927	537	969	111	113	151	152	130	131	1.29	0.32
120	60.0	9.8	6.02	204.5	347.0	10.86	1174	1680	1661	1415	1767	4889	6786	6792	6783	6954	550	981	530	950	550	927	534	967	112	113	151	152	130	131	1.29	0.33

HIGH TEMPERATURE TEST #3 - WITH COOLSHIMS - CONTINUED

60-10 mi/h - 15.0 ft/s² Deceleration Rate - 550°F Initial Rotor Temperature - 30 Second Minimum Time Cycle

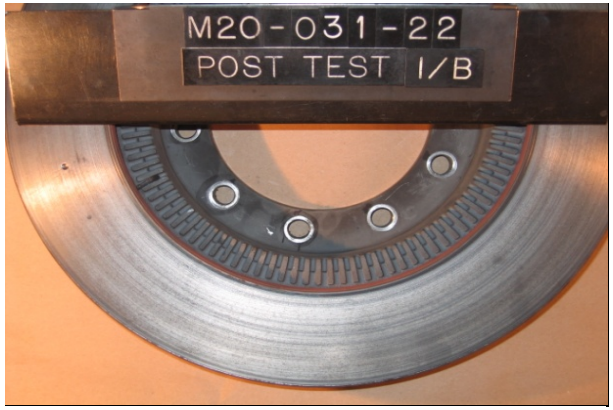
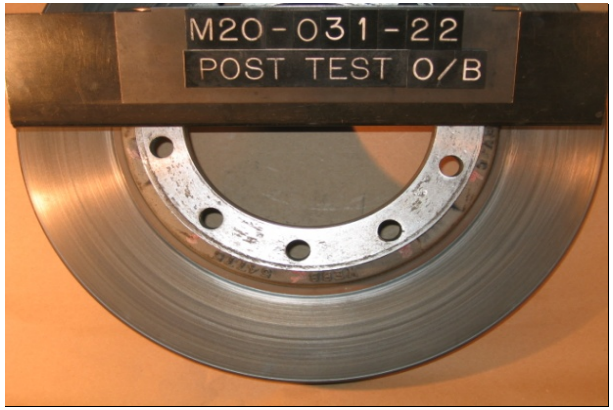
	SPEED		TIME		DISTANCE	DECEL	PRESSURE					TORQUE					TEMPERATURE														FLUID	FRIC.
					TO												ROTOR				PADS				CALIPER								
CYCLE					STOP												INBOARD		OUTBOARD		INBOARD		OUTBOARD		FLUID		INBOARD		OUTBOARD		DISP	COEF.
NO.	INIT	FNL	STOP	REPT		AVG	AVG	INIT	SUST	END	MAX	AVG	INIT	SUST	END	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	INIT	MAX	MAX	AVG
	mi/h		s		ft	ft/s²	lbf/in²					lbf·ft					°F														in²	μ
121	60.0	9.8	6.04	204.0	349.3	10.81	1182	1705	1677	1441	1788	4869	6759	6795	6839	6948	549	982	530	964	550	929	533	972	112	113	151	152	130	132	1.30	0.32
122	60.0	9.8	6.03	201.8	348.2	10.82	1173	1680	1659	1415	1767	4871	6756	6795	6777	6942	550	984	533	954	551	934	535	975	112	113	151	152	130	132	1.29	0.32
123	60.1	9.8	6.02	204.7	347.9	10.87	1173	1701	1654	1417	1753	4891	6739	6804	6774	6930	550	982	530	962	550	929	535	960	112	113	150	152	130	132	1.29	0.33
124	60.0	9.8	6.03	202.5	348.2	10.84	1179	1707	1669	1435	1769	4882	6745	6801	6798	6939	550	982	534	962	552	932	535	989	112	113	151	153	129	131	1.30	0.32
125	60.0	9.8	6.02	204.1	347.5	10.86	1176	1714	1666	1425	1774	4885	6774	6804	6771	6936	550	984	536	959	553	937	537	953	112	114	152	153	130	132	1.30	0.32
126	60.0	9.8	6.02	204.2	347.4	10.85	1179	1721	1672	1420	1776	4882	6753	6801	6742	6939	550	984	536	964	553	940	539	994	111	113	152	154	130	132	1.30	0.32
127	60.0	9.8	6.04	207.2	349.1	10.79	1184	1701	1682	1420	1786	4870	6768	6798	6827	6945	550	995	532	950	552	950	538	958	112	114	152	153	131	132	1.31	0.32
128	60.0	9.8	6.02	206.6	347.1	10.86	1172	1674	1653	1412	1757	4889	6753	6795	6809	6933	550	981	532	970	553	939	536	988	112	114	152	154	131	132	1.30	0.33
129	60.0	9.8	6.02	205.7	346.8	10.88	1176	1716	1666	1429	1766	4895	6730	6798	6762	6936	550	998	532	954	553	955	537	952	112	114	152	154	131	133	1.30	0.32
130	60.0	9.8	6.01	207.7	347.8	10.86	1174	1699	1659	1430	1766	4892	6762	6801	6783	6948	548	981	530	964	552	941	536	985	113	114	153	154	131	133	1.30	0.33
131	60.0	9.8	6.03	205.1	347.5	10.86	1175	1706	1663	1416	1776	4877	6739	6795	6762	6960	550	990	533	953	553	950	537	950	113	115	153	154	132	133	1.30	0.32
132	60.0	9.8	6.07	206.8	347.0	10.86	1169	1683	1650	1412	1759	4885	6789	6795	6756	6942	550	982	531	966	552	944	536	994	113	114	152	154	131	133	1.30	0.33
133	60.0	9.8	6.02	207.8	347.5	10.83	1173	1690	1658	1406	1769	4885	6765	6801	6839	6957	549	988	530	953	551	952	534	945	113	114	152	154	131	133	1.30	0.33
134	60.0	9.8	6.02	204.3	347.1	10.85	1173	1681	1659	1417	1769	4889	6771	6795	6804	6927	550	979	532	964	552	947	537	990	112	114	153	154	132	133	1.31	0.33
135	60.0	9.8	6.02	206.1	347.2	10.88	1173	1725	1661	1423	1772	4893	6815	6807	6759	6936	550	989	532	950	552	955	536	947	112	114	153	154	132	133	1.31	0.33
136	60.1	9.8	6.03	205.2	347.9	10.86	1175	1709	1664	1445	1770	4884	6736	6804	6739	6948	550	990	532	962	552	959	537	989	112	114	153	154	132	133	1.31	0.32
137	60.1	9.8	6.02	205.8	347.7	10.87	1171	1686	1656	1432	1770	4889	6742	6801	6812	6942	550	989	533	957	553	961	537	961	112	114	153	154	132	133	1.31	0.33
138	60.0	9.8	6.03	203.8	347.8	10.84	1175	1672	1661	1433	1761	4878	6745	6789	6762	6948	550	989	535	966	555	962	538	998	113	114	153	154	132	133	1.31	0.32
139	60.0	9.8	6.01	206.5	346.7	10.89	1170	1719	1655	1413	1759	4893	6736	6807	6762	6951	550	988	532	951	552	957	538	955	111	114	153	154	131	133	1.31	0.33
140	60.1	9.8	6.03	207.3	347.9	10.86	1176	1704	1666	1440	1767	4886	6736	6801	6792	6933	550	991	529	961	551	962	535	1004	111	114	153	154	132	133	1.31	0.32
141	60.0	9.8	6.03	204.4	348.4	10.84	1185	1737	1685	1442	1785	4872	6742	6807	6739	6942	550	990	533	955	552	960	536	945	112	114	153	154	132	133	1.32	0.32
142	60.0	9.8	6.02	207.6	347.5	10.86	1174	1695	1662	1444	1763	4891	6777	6798	6792	6939	550	982	530	962	552	954	534	1005	112	114	151	154	131	132	1.31	0.33
143	60.1	9.8	6.02	204.0	347.6	10.86	1175	1692	1660	1426	1770	4895	6727	6801	6780	6933	549	993	534	956	553	965	536	973	112	114	153	153	132	133	1.31	0.33
144	60.0	9.8	6.01	205.0	346.6	10.89	1173	1683	1660	1425	1767	4888	6759	6792	6748	6942	549	990	535	960	553	961	536	988	113	115	152	153	131	133	1.32	0.33
145	60.0	9.8	6.01	206.4	346.7	10.88	1172	1706	1658	1426	1759	4895	6753	6801	6750	6945	550	988	532	960	552	963	536	991	113	114	152	153	132	133	1.31	0.33
146	60.0	9.8	6.02	206.7	347.3	10.87	1171	1715	1658	1429	1760	4887	6759	6801	6750	6951	550	987	529	965	550	965	536	998	112	114	152	153	131	133	1.31	0.33
147	60.0	9.8	6.01	206.8	346.4	10.87	1163	1671	1641	1429	1739	4903	6756	6798	6821	6933	550	985	528	963	550	968	535	1001	112	114	152	153	131	133	1.31	0.33
148	60.0	9.8	6.02	202.4	347.3	10.85	1173	1684	1660	1416	1762	4888	6777	6798	6815	6957	549	982	533	962	552	966	537	1000	112	114	152	154	131	133	1.32	0.33
149	60.1	9.8	6.01	205.9	347.1	10.88	1171	1701	1656	1419	1757	4900	6771	6804	6783	6933	550	986	532	961	551	975	536	997	112	115	152	153	131	133	1.31	0.33
150	60.0	9.8	6.02	205.0	347.0	10.88	1168	1654	1651	1419	1753	4897	6745	6786	6750	6939	550	988	533	963	550	977	537	1001	111	114	152	153	131	133	1.31	0.33

POST TEST INSPECTION

Pad A, Inboard: The pad has light flaking, moderate glazing, moderate grooving, moderate pitting, moderate resin bleed and light surface cracking.

Pad B, Outboard: The pad has light flaking, moderate glazing, moderate grooving, moderate pitting, moderate resin bleed and light surface cracking.

Rotor: The brakiing surface has light grooving, light lining transfer and is grey/blue in color. There are no heat checks or surface cracks evident.

All other test hardware appears in good condition.

POSTTEST PHOTOGRAPHS