Test Mode

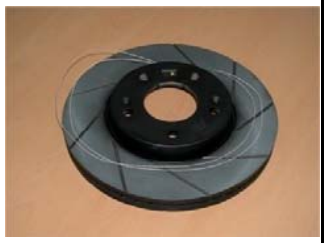
차종 : NF 소나타

Test Mode : JASO 성능 C406

	Test	Initial speed(Km/h)			Interval(sec)	Interval(℃)	Braking(G)	Application(회)	풍속(m/s)
1	Pre-burnish	50			120	-	0.3	10	11
2	1st E.T	50	100	-	-	80	0.1 ~ 0.8	16	11
3	Burnish	65			-	80	0.35	200	11
4	2nd E.T	50	100	130	-	80	0.1 ~ 0.8	24	11
5	Reburnish	65			-	80	0.35	35	11
6	Base Line	50			-	80	0.3	3	11
7	1st Fade	100			35	60	0.45	10	11
8	Recovery	50			120	-	0.3	15	11
9	Reburnish	65			-	80	0.35	35	11
10	Base Line	50			-	80	0.3	3	11
11	2nd Fade	100			35	60	0.45	15	11
12	Recovery	50			120	-	0.3	15	11
13	Reburnish	65			-	80	0.35	35	11
14	3rd E.T	50	100	130	-	80	0.1 ~ 0.8	24	11
15	Reburnish	65			-	80	0.35	35	11
16	Base Line	50			-	80	0.3	3	11
17	Water Immersion	-			120	-	-	-	-
18	Water Recovery	50			60	-	0.3	15	11

시험 결과 요약 데이터(1/3)

: NF 소나타
Mode : JASO 성능 C406

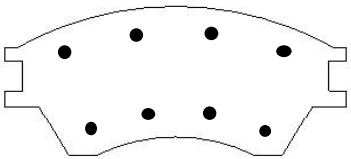
	Disc		Pad		Single Brake Dynamometer	
양산품						
가공품						
발품						
	시험 전	시험 후	시험 전	시험 후	시험 장착 모습	

시험 결과 요약 데이터(2/3)

차종 : NF 소나타
Test Mode : JASO 성능 C406

			마찰재 두께									중량(g)
			1	2	3	4	5	6	7	8	평균두께(mm)	
양산품	시험 전	Inner	16.921	16.933	16.931	16.925	16.944	16.929	16.916	16.916	16.927	425.360
		Outer	17.567	17.589	17.542	17.519	17.510	17.656	17.579	17.587	17.569	436.760
	시험 후	Inner	15.587	15.550	15.597	15.725	15.854	15.795	15.889	16.003	15.750	409.610
		Outer	15.932	16.026	16.021	15.810	16.433	16.706	16.567	16.460	16.244	420.090
양산가공품	시험 전	Inner	16.898	16.922	16.924	16.926	17.015	16.935	16.940	16.954	16.939	424.700
		Outer	17.502	17.566	17.508	17.485	17.524	17.685	17.518	17.508	17.537	436.280
	시험 후	Inner	13.916	13.690	13.745	14.064	14.298	13.943	13.930	14.191	13.972	388.480
		Outer	14.276	14.230	14.186	14.063	15.163	15.248	15.291	15.187	14.706	403.780
개발품	시험 전	Inner	16.898	16.886	16.910	16.988	16.945	16.925	16.996	16.948	16.937	425.710
		Outer	17.502	17.544	17.523	17.514	17.514	17.593	17.523	17.495	17.526	437.940
	시험 후	Inner	13.738	13.494	13.530	14.014	13.961	13.552	13.698	14.063	13.756	386.430
		Outer	14.202	14.162	14.119	13.916	15.140	15.230	15.158	14.836	14.595	402.810

		마찰재 마모량									중량변화량(g)
		1	2	3	4	5	6	7	8	평균마모량(mm)	
양산품	Inner	1.334	1.383	1.334	1.200	1.090	1.134	1.027	0.913	1.177	15.750
	Outer	1.635	1.563	1.521	1.709	1.077	0.950	1.012	1.127	1.324	16.670
	총 마모량	2.969	2.946	2.855	2.909	2.167	2.084	2.039	2.040	20.009	32.420
양산가공품	Inner	2.982	3.232	3.179	2.862	2.717	2.992	3.010	2.763	2.967	36.220
	Outer	3.226	3.336	3.322	3.422	2.361	2.437	2.227	2.321	2.832	32.500
	총 마모량	6.208	6.568	6.501	6.284	5.078	5.429	5.237	5.084	46.389	68.720
개발품	Inner	3.160	3.392	3.380	2.974	2.984	3.373	3.298	2.885	3.181	39.280
	Outer	3.300	3.382	3.404	3.598	2.374	2.363	2.365	2.659	2.931	35.130
	총 마모량	6.460	6.774	6.784	6.572	5.358	5.736	5.663	5.544	48.891	74.410



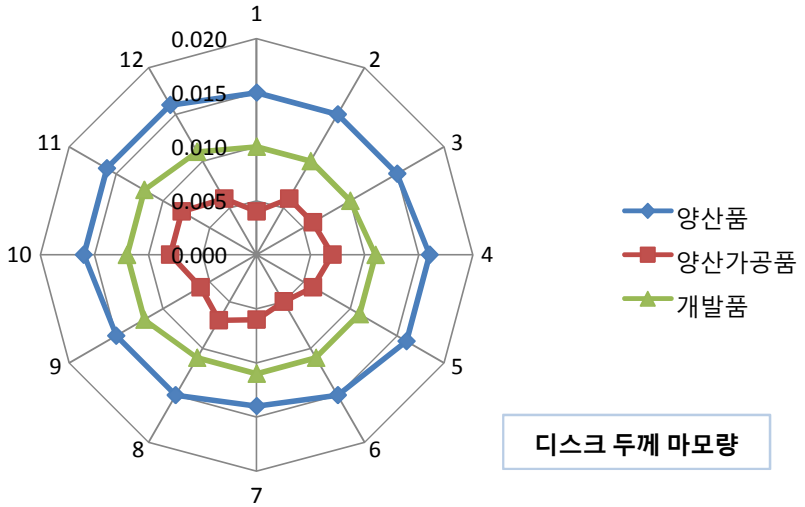
마찰재 두께 측정 포인트

시험 결과 요약 데이터(3/3)

차종 : NF 소나타
Test Mode : JASO 성능 C406

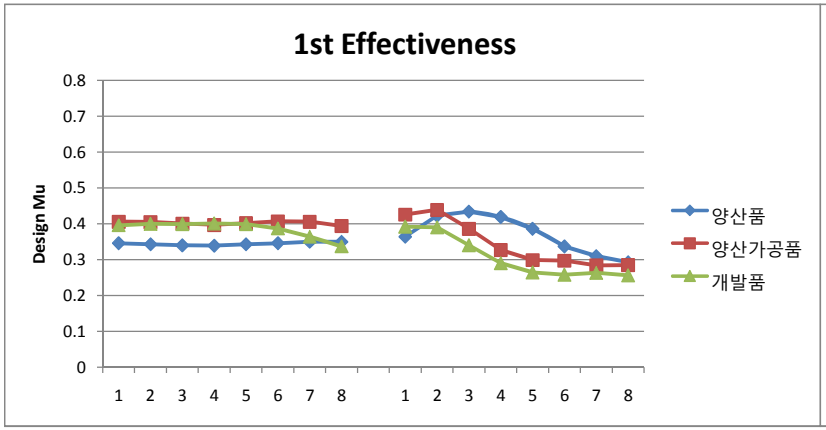
		디스크 두께												
		1	2	3	4	5	6	7	8	9	10	11	12	평균두께(mm)
양산품	시험 전	26.032	26.032	26.033	26.032	26.032	26.032	26.031	26.031	26.031	26.031	26.031	26.031	26.032
	시험 후	26.017	26.017	26.018	26.016	26.016	26.017	26.017	26.016	26.016	26.015	26.015	26.015	26.016
양산가공품	시험 전	26.059	26.060	26.058	26.060	26.060	26.060	26.060	26.061	26.061	26.060	26.061	26.060	26.060
	시험 후	26.055	26.054	26.052	26.053	26.054	26.055	26.054	26.054	26.055	26.052	26.053	26.054	26.054
개발품	시험 전	26.001	26.002	26.001	26.001	26.001	26.001	26.001	26.000	26.000	26.000	26.000	26.000	26.001
	시험 후	25.991	25.992	25.991	25.990	25.990	25.990	25.990	25.989	25.988	25.988	25.988	25.989	25.990

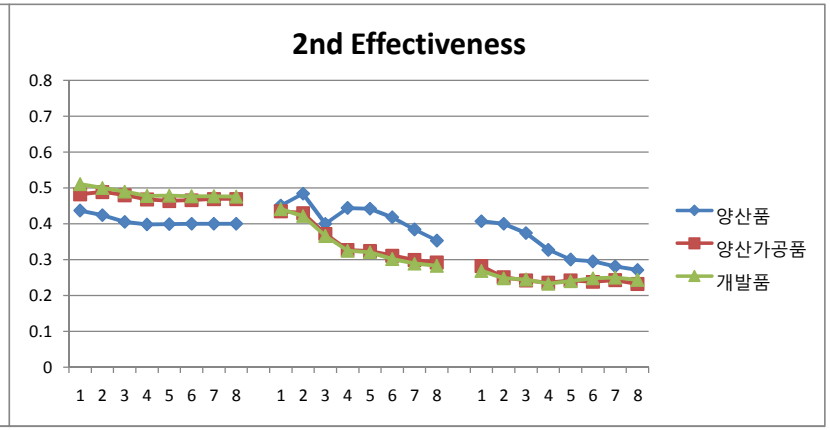
	디스크 마모량													
	1	2	3	4	5	6	7	8	9	10	11	12	평균마모량(mm	총마모량(mm)
양산품	0.015	0.015	0.015	0.016	0.016	0.015	0.014	0.015	0.015	0.016	0.016	0.016	0.015	0.184
양산가공품	0.004	0.006	0.006	0.007	0.006	0.005	0.006	0.007	0.006	0.008	0.008	0.006	0.006	0.075
개발품	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.011	0.011	0.132

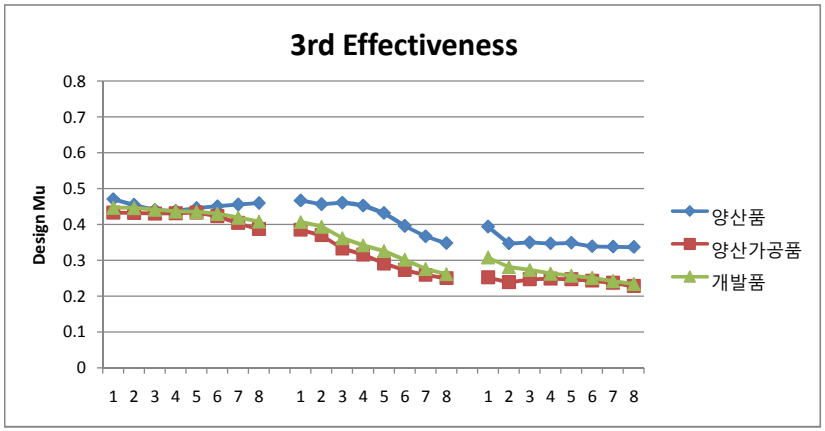


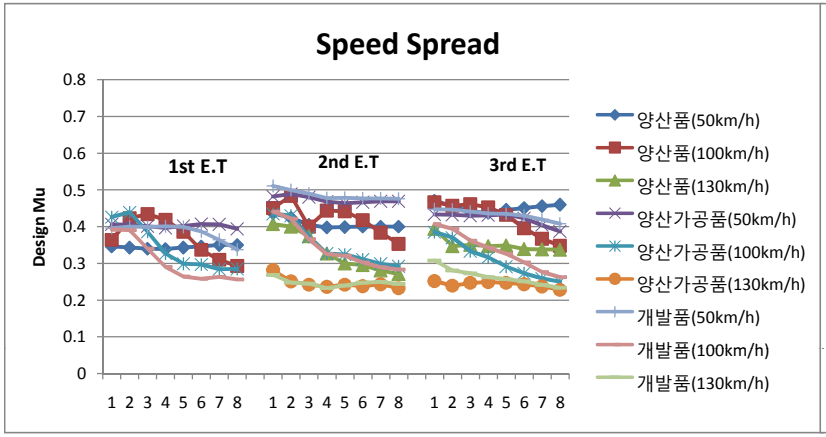
시험 결과 요약 그래프(1/4)

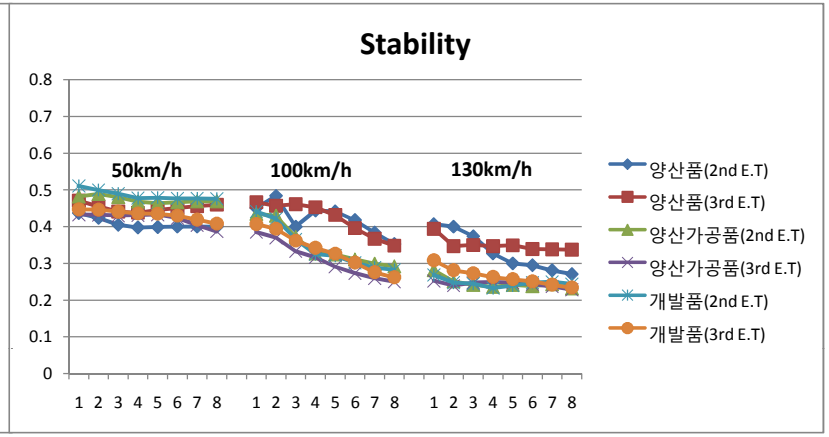
차종 : NF 소나타
Test Mode : JASO 성능 C406





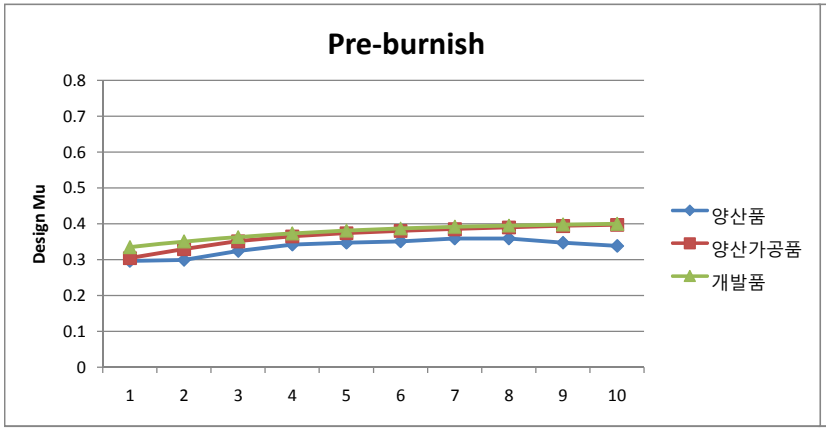


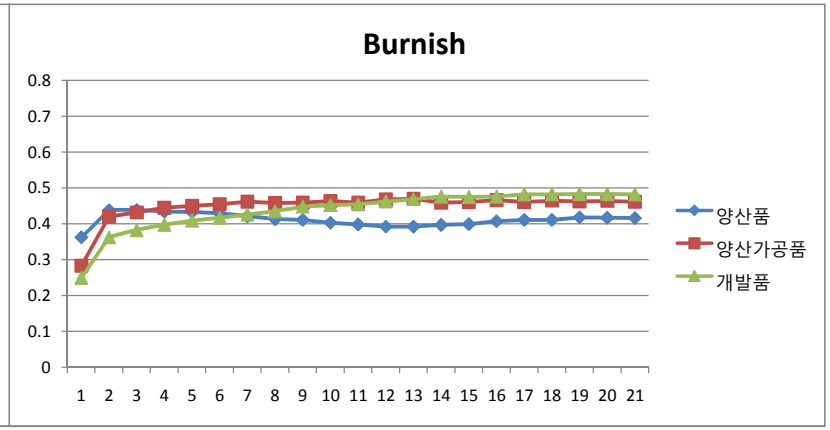


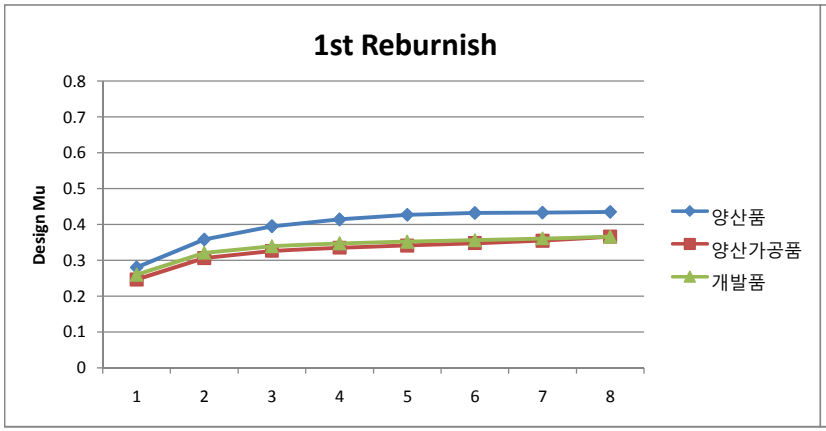


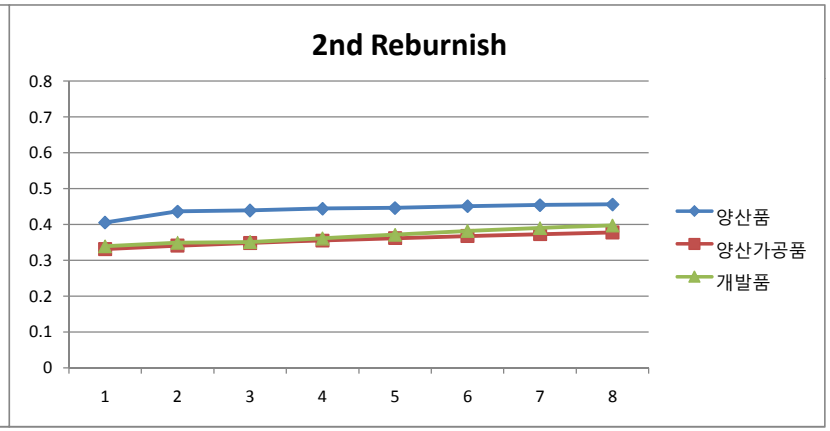
시험 결과 요약 그래프(2/4)

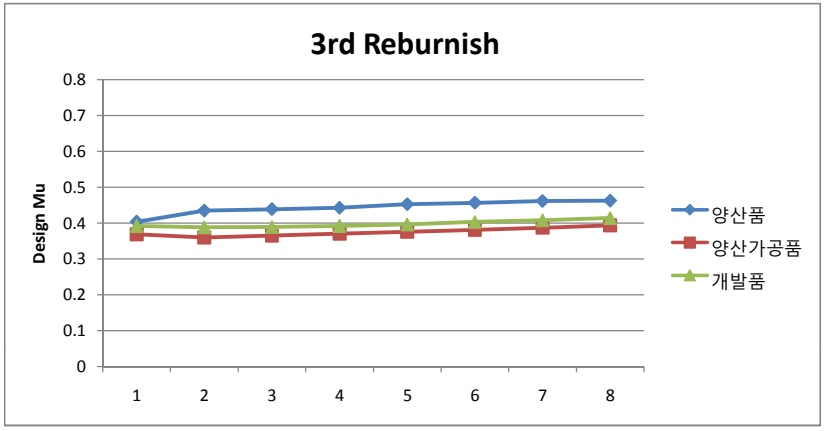
차종 : NF 소나타
Test Mode : JASO 성능 C406





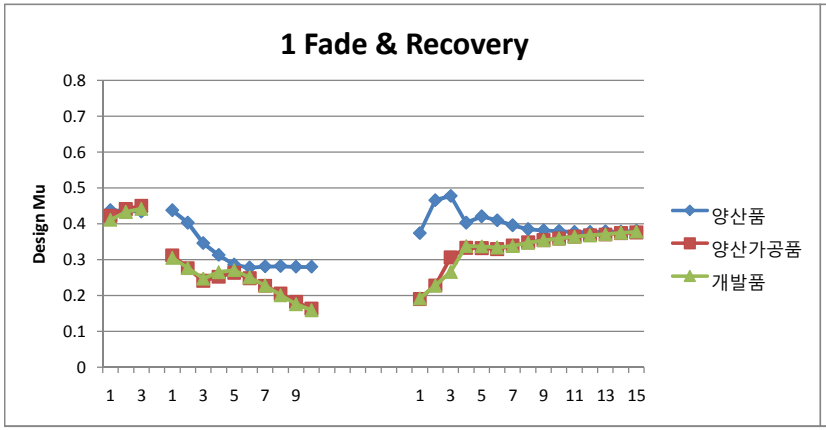


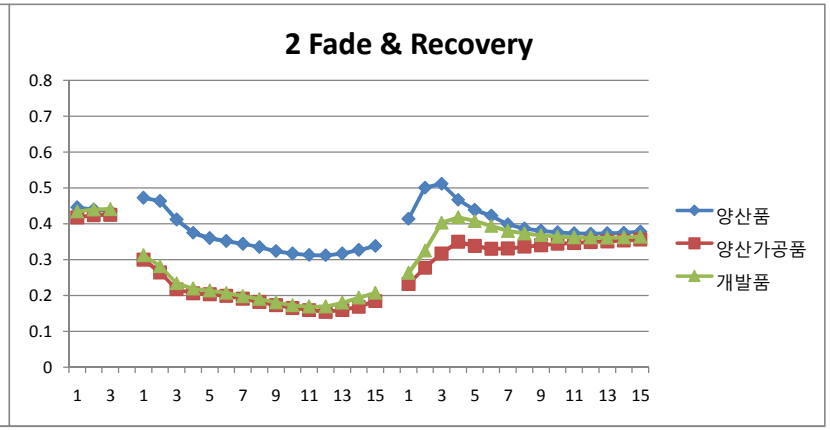


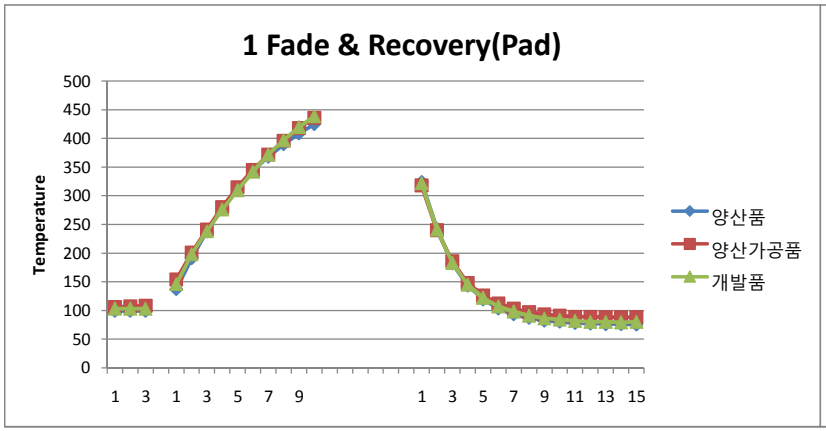


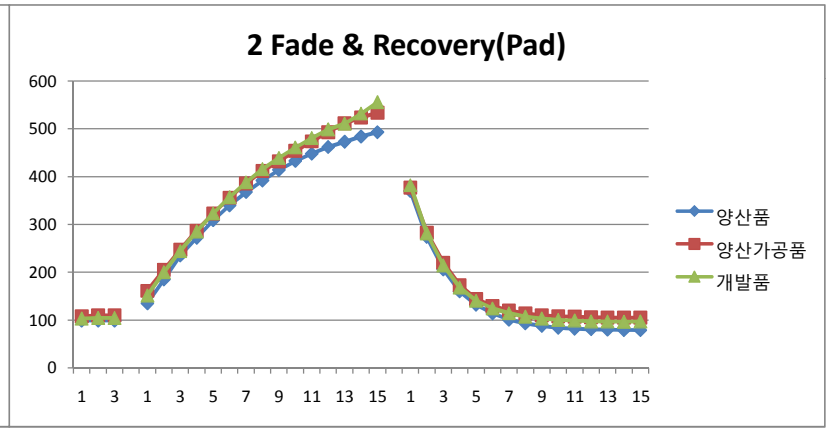
시험 결과 요약 그래프(3/4)

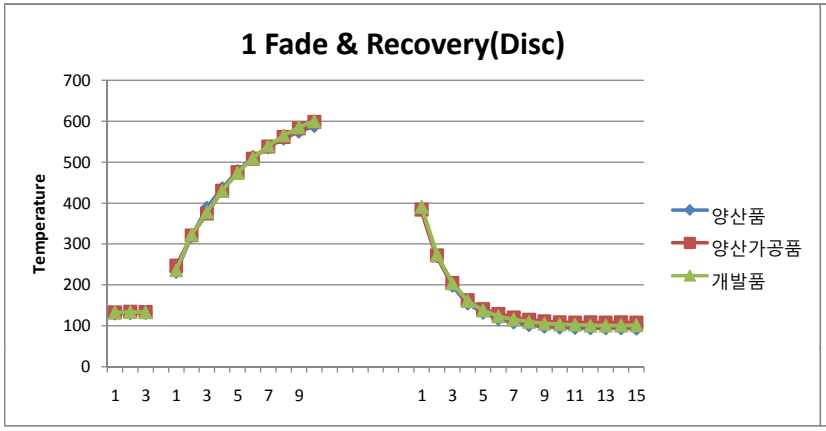
차종 : NF 소나타
Test Mode : JASO 성능 C406

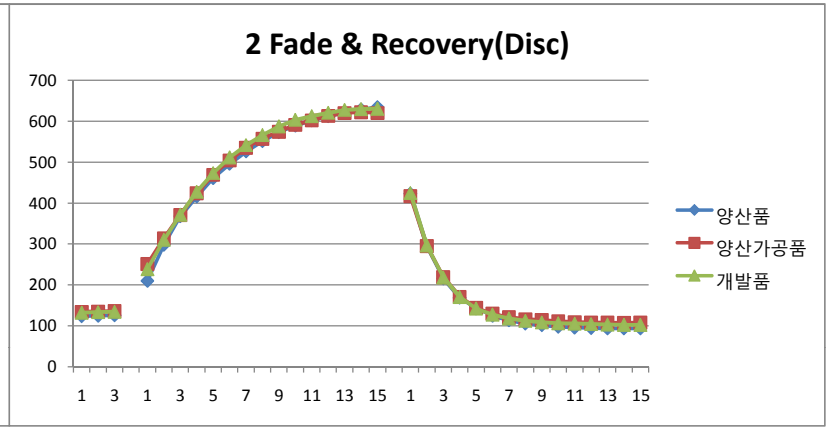






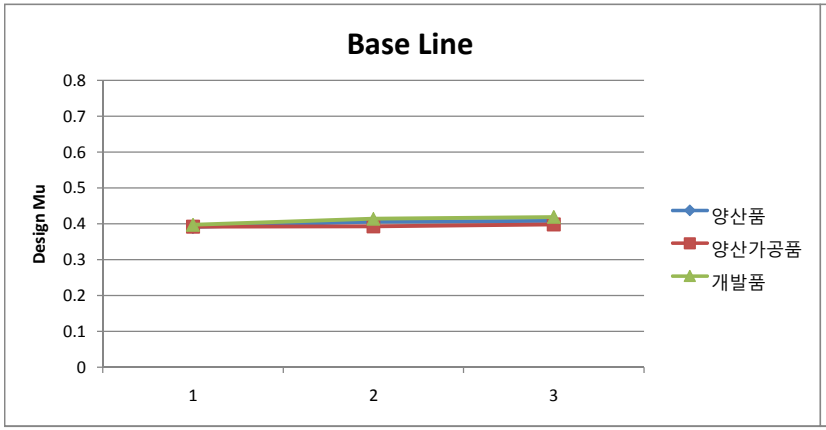


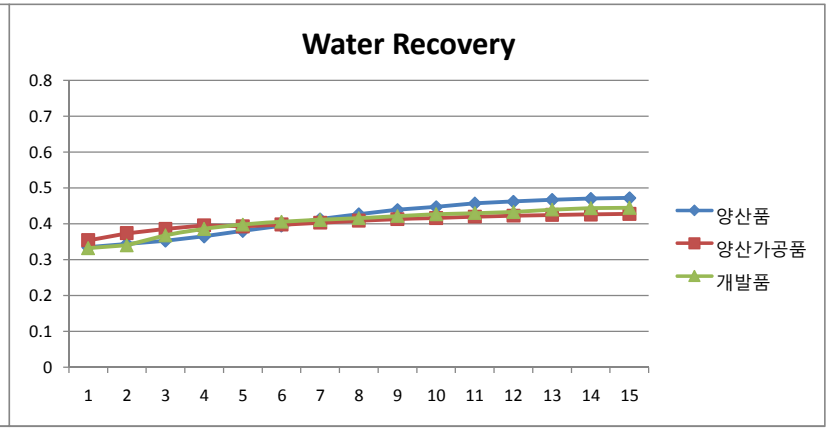


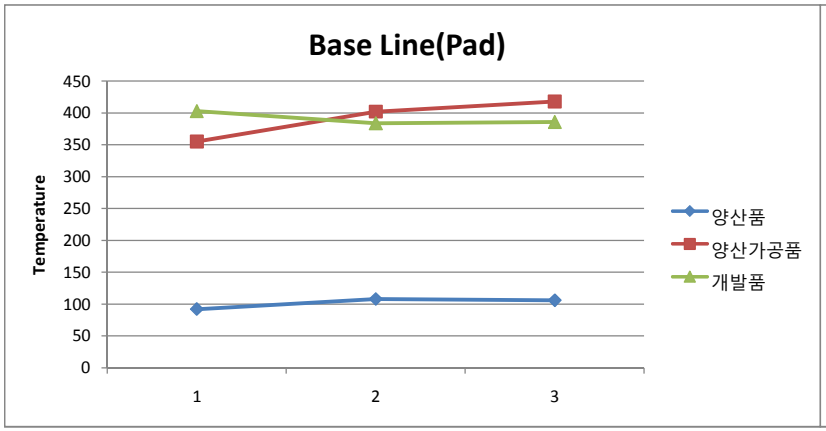


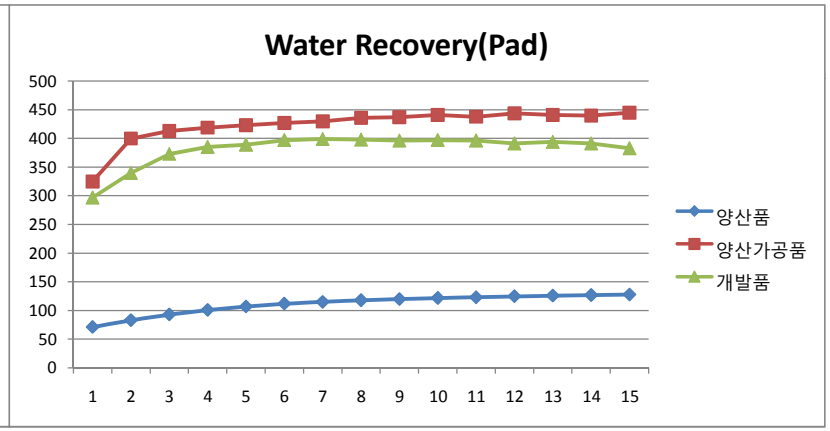
시험 결과 요약 그래프(4/4)

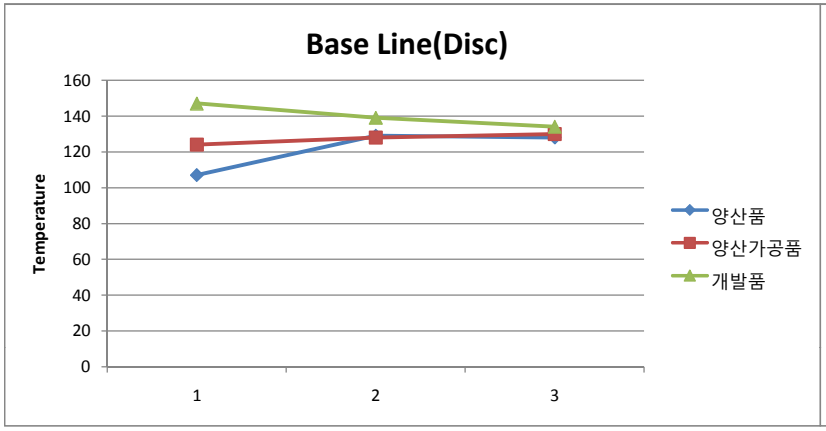
차종 : NF 소나타
Test Mode : JASO 성능 C406

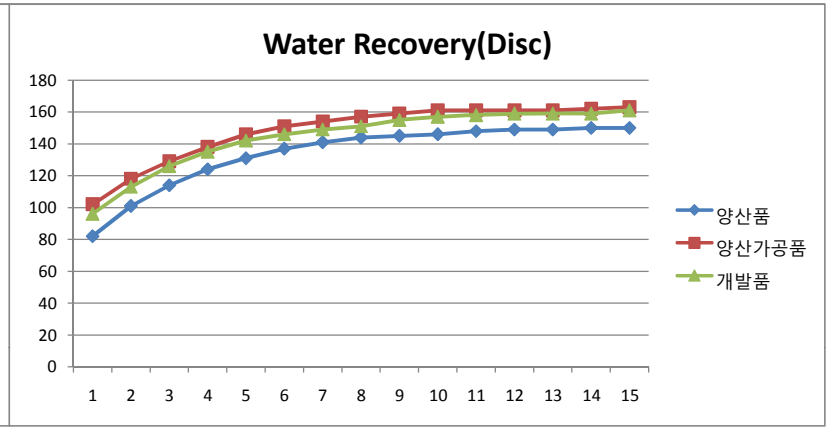












	1st Effectiveness			
		양산품	양산가공품	개발품
50km/h	1	0.346	0.406	0.396
	2	0.343	0.405	0.4
	3	0.34	0.401	0.399
	4	0.339	0.397	0.401
	5	0.343	0.402	0.399
	6	0.346	0.407	0.387
	7	0.35	0.406	0.364
	8	0.35	0.394	0.337
100km/h	1	0.364	0.426	0.392
	2	0.423	0.439	0.39
	3	0.434	0.386	0.34
	4	0.419	0.327	0.29
	5	0.386	0.299	0.264
	6	0.337	0.297	0.258
	7	0.31	0.284	0.263
	8	0.293	0.285	0.256
130km/h				

2st Effectiveness			
	양산품	양산가공품	개발품
1	0.437	0.482	0.511
2	0.424	0.489	0.5
3	0.405	0.48	0.49
4	0.398	0.468	0.478
5	0.399	0.464	0.479
6	0.4	0.466	0.477
7	0.4	0.469	0.477
8	0.4	0.469	0.476
1	0.451	0.435	0.441
2	0.484	0.43	0.422
3	0.4	0.372	0.366
4	0.444	0.327	0.325
5	0.442	0.324	0.321
6	0.418	0.311	0.302
7	0.384	0.299	0.289
8	0.353	0.292	0.283
1	0.407	0.282	0.269
2	0.4	0.251	0.248
3	0.374	0.242	0.245
4	0.327	0.236	0.233
5	0.3	0.242	0.24
6	0.295	0.238	0.248
7	0.281	0.243	0.25
8	0.271	0.232	0.244

3st Effectiveness			
	양산품	양산가공품	개발품
1	0.471	0.433	0.447
2	0.455	0.432	0.446
3	0.441	0.43	0.441
4	0.438	0.431	0.436
5	0.446	0.433	0.435
6	0.451	0.423	0.43
7	0.456	0.404	0.419
8	0.46	0.387	0.408
1	0.467	0.385	0.407
2	0.457	0.37	0.394
3	0.461	0.333	0.362
4	0.453	0.316	0.342
5	0.432	0.291	0.326
6	0.396	0.273	0.302
7	0.367	0.259	0.276
8	0.348	0.25	0.262
1	0.394	0.252	0.308
2	0.347	0.239	0.281
3	0.35	0.247	0.273
4	0.347	0.249	0.263
5	0.349	0.247	0.257
6	0.339	0.243	0.251
7	0.338	0.237	0.242
8	0.337	0.228	0.234

	Speed Spread									
		양산품			양산가공품			개발품		
		50	100	130	50	100	130	50	100	130
1ET	1	0.346	0.364		0.406	0.426		0.396	0.392	
	2	0.343	0.423		0.405	0.439		0.4	0.39	
	3	0.34	0.434		0.401	0.386		0.399	0.34	
	4	0.339	0.419		0.397	0.327		0.401	0.29	
	5	0.343	0.386		0.402	0.299		0.399	0.264	
	6	0.346	0.337		0.407	0.297		0.387	0.258	
	7	0.35	0.31		0.406	0.284		0.364	0.263	
	8	0.35	0.293		0.394	0.285		0.337	0.256	
2ET	1	0.437	0.451	0.407	0.482	0.435	0.282	0.511	0.441	0.269
	2	0.424	0.484	0.4	0.489	0.43	0.251	0.5	0.422	0.248
	3	0.405	0.4	0.374	0.48	0.372	0.242	0.49	0.366	0.245
	4	0.398	0.444	0.327	0.468	0.327	0.236	0.478	0.325	0.233
	5	0.399	0.442	0.3	0.464	0.324	0.242	0.479	0.321	0.24
	6	0.4	0.418	0.295	0.466	0.311	0.238	0.477	0.302	0.248
	7	0.4	0.384	0.281	0.469	0.299	0.243	0.477	0.289	0.25
	8	0.4	0.353	0.271	0.469	0.292	0.232	0.476	0.283	0.244
3ET	1	0.471	0.467	0.394	0.433	0.385	0.252	0.447	0.407	0.308
	2	0.455	0.457	0.347	0.432	0.37	0.239	0.446	0.394	0.281
	3	0.441	0.461	0.35	0.43	0.333	0.247	0.441	0.362	0.273
	4	0.438	0.453	0.347	0.431	0.316	0.249	0.436	0.342	0.263
	5	0.446	0.432	0.349	0.433	0.291	0.247	0.435	0.326	0.257
	6	0.451	0.396	0.339	0.423	0.273	0.243	0.43	0.302	0.251
	7	0.456	0.367	0.338	0.404	0.259	0.237	0.419	0.276	0.242
	8	0.46	0.348	0.337	0.387	0.25	0.228	0.408	0.262	0.234

Pre-burnish			
	양산품	양산가공품	개발품
1	0.296	0.304	0.335
2	0.299	0.329	0.351
3	0.324	0.351	0.363
4	0.342	0.365	0.373
5	0.347	0.374	0.381
6	0.351	0.38	0.387
7	0.359	0.385	0.392
8	0.359	0.39	0.395
9	0.347	0.394	0.398
10	0.338	0.397	0.4

Burnish			
	양산품	양산가공품	개발품
1	0.362	0.283	0.249
2	0.438	0.42	0.362
3	0.439	0.432	0.382
4	0.434	0.445	0.397
5	0.433	0.45	0.409
6	0.429	0.455	0.417
7	0.421	0.462	0.426
8	0.413	0.458	0.435
9	0.411	0.459	0.448
10	0.403	0.464	0.452
11	0.398	0.459	0.454
12	0.392	0.468	0.462
13	0.392	0.47	0.469
14	0.397	0.459	0.476
15	0.399	0.461	0.475
16	0.407	0.466	0.476
17	0.411	0.461	0.482
18	0.411	0.465	0.482
19	0.418	0.463	0.483
20	0.417	0.464	0.483
21	0.416	0.462	0.482

1st Reburnish			
	양산품	양산가공품	개발품
1	0.28	0.246	0.26
2	0.358	0.306	0.321
3	0.395	0.326	0.339
4	0.414	0.335	0.347
5	0.427	0.341	0.352
6	0.432	0.348	0.356
7	0.433	0.354	0.361
8	0.435	0.366	0.366

2nd Reburnish			
	양산품	양산가공품	개발품
1	0.405	0.331	0.339
2	0.436	0.341	0.349
3	0.439	0.348	0.351
4	0.444	0.355	0.361
5	0.446	0.362	0.371
6	0.451	0.368	0.382
7	0.454	0.373	0.39
8	0.456	0.378	0.397

3rd Reburnish			
	양산품	양산가공품	개발품
1	0.404	0.369	0.392
2	0.435	0.36	0.388
3	0.439	0.365	0.389
4	0.443	0.371	0.392
5	0.453	0.376	0.396
6	0.457	0.381	0.403
7	0.462	0.388	0.408
8	0.463	0.394	0.414

1 Fade-Recovery			
	양산품	양산가공품	개발품
1	0.438	0.422	0.411
2	0.436	0.441	0.433
3	0.434	0.45	0.442
1	0.438	0.312	0.305
2	0.403	0.276	0.277
3	0.346	0.241	0.247
4	0.313	0.252	0.265
5	0.286	0.263	0.271
6	0.278	0.248	0.251
7	0.281	0.227	0.228
8	0.282	0.205	0.201
9	0.28	0.182	0.176
10	0.28	0.163	0.159
1	0.374	0.19	0.192
2	0.466	0.228	0.228
3	0.478	0.306	0.266
4	0.403	0.333	0.338
5	0.421	0.332	0.337
6	0.41	0.329	0.334
7	0.396	0.339	0.338
8	0.385	0.348	0.347
9	0.382	0.354	0.354
10	0.38	0.359	0.359
11	0.377	0.364	0.364
12	0.377	0.368	0.368
13	0.379	0.37	0.371
14	0.378	0.374	0.375
15	0.381	0.376	0.378

2 Fade-Recovery			
	양산품	양산가공품	개발품
1	0.446	0.418	0.434
2	0.44	0.424	0.44
3	0.435	0.425	0.441
1	0.473	0.3	0.312
2	0.464	0.264	0.282
3	0.412	0.217	0.234
4	0.375	0.206	0.219
5	0.36	0.203	0.214
6	0.352	0.199	0.207
7	0.344	0.191	0.198
8	0.335	0.182	0.19
9	0.324	0.173	0.181
10	0.317	0.165	0.173
11	0.313	0.159	0.169
12	0.312	0.154	0.169
13	0.317	0.159	0.18
14	0.327	0.168	0.194
15	0.338	0.184	0.207
1	0.414	0.232	0.263
2	0.501	0.277	0.325
3	0.512	0.317	0.403
4	0.467	0.35	0.418
5	0.439	0.338	0.408
6	0.423	0.33	0.394
7	0.399	0.331	0.38
8	0.387	0.336	0.373
9	0.381	0.34	0.368
10	0.376	0.344	0.364
11	0.374	0.346	0.362
12	0.373	0.349	0.362
13	0.374	0.351	0.361
14	0.375	0.353	0.362
15	0.378	0.356	0.364

1 Fade-Recovery(Pad)			
	양산품	양산가공품	개발품
1	99	106	103
2	99	107	103
3	99	108	103
1	137	154	146
2	191	201	198
3	238	241	238
4	277	280	276
5	313	315	310
6	344	345	342
7	368	372	372
8	390	396	397
9	409	418	420
10	425	436	439
1	324	318	322
2	242	240	241
3	182	186	183
4	143	148	145
5	119	126	122
6	103	112	107
7	93	103	98
8	87	97	91
9	82	93	86
10	80	91	84
11	78	89	82
12	77	89	80
13	76	88	80
14	76	88	79
15	75	88	80

2 Fade-Recovery(Pad)			
	양산품	양산가공품	개발품
1	99	108	103
2	99	110	104
3	99	110	104
1	135	161	151
2	185	205	200
3	235	247	244
4	272	287	285
5	309	323	323
6	340	356	357
7	368	386	388
8	392	412	416
9	414	432	439
10	433	454	461
11	448	474	481
12	462	493	499
13	473	512	511
14	484	524	532
15	493	534	556
1	370	377	382
2	274	283	281
3	206	220	214
4	160	173	168
5	132	144	140
6	114	129	124
7	101	120	114
8	93	114	107
9	88	110	103
10	84	108	100
11	82	107	99
12	81	106	97
13	80	105	97
14	79	105	96
15	79	105	97

1 Fade-Recovery(Disc)			
	양산품	양산가공품	개발품
1	130	133	133
2	131	135	134
3	132	134	134
1	232	247	236
2	319	321	323
3	388	374	378
4	436	430	430
5	478	475	474
6	513	508	510
7	536	538	540
8	557	561	565
9	574	582	585
10	588	598	600
1	385	384	391
2	270	272	274
3	198	205	204
4	154	163	161
5	132	141	138
6	117	129	124
7	108	121	116
8	102	115	110
9	98	111	106
10	96	109	104
11	95	108	103
12	94	109	101
13	94	108	101
14	94	109	101
15	93	108	102

2 Fade-Recovery(Disc)			
	양산품	양산가공품	개발품
1	124	134	132
2	125	135	133
3	126	136	134
1	210	251	238
2	298	314	310
3	368	371	371
4	416	424	427
5	461	469	473
6	496	504	511
7	526	535	541
8	551	557	566
9	573	574	587
10	589	591	603
11	602	602	612
12	612	613	620
13	621	620	627
14	628	622	629
15	634	620	630
1	423	417	424
2	295	295	296
3	216	219	218
4	169	171	170
5	143	144	142
6	125	130	127
7	114	121	118
8	106	116	112
9	102	114	108
10	98	111	106
11	96	109	105
12	95	108	104
13	94	108	103
14	94	107	102
15	94	108	102

Base Line & Water Recovery			
	양산품	양산가공품	개발품
1	0.391	0.392	0.397
2	0.406	0.393	0.414
3	0.408	0.398	0.419
1	0.335	0.354	0.332
2	0.344	0.374	0.34
3	0.353	0.386	0.368
4	0.365	0.396	0.386
5	0.38	0.393	0.398
6	0.395	0.398	0.406
7	0.413	0.403	0.411
8	0.427	0.409	0.416
9	0.439	0.413	0.422
10	0.447	0.416	0.427
11	0.457	0.42	0.43
12	0.462	0.423	0.433
13	0.467	0.425	0.44
14	0.47	0.426	0.444
15	0.472	0.428	0.445

Base Line & Water Recovery(Pad)			
	양산품	양산가공품	개발품
1	92	355	403
2	108	402	384
3	106	418	386
1	71	325	297
2	83	400	340
3	93	413	373
4	101	419	385
5	107	423	389
6	112	427	397
7	115	430	399
8	118	436	398
9	120	437	396
10	122	441	397
11	123	438	396
12	125	444	391
13	126	441	394
14	127	440	391
15	128	445	383

Base Line & Water Recovery(Disc)			
	양산품	양산가공품	개발품
1	107	124	147
2	129	128	139
3	128	130	134
1	82	102	96
2	101	118	113
3	114	129	126
4	124	138	135
5	131	146	142
6	137	151	146
7	141	154	149
8	144	157	151
9	145	159	155
10	146	161	157
11	148	161	158
12	149	161	159
13	149	161	159
14	150	162	159
15	150	163	161