

SAE J661 (FEB97) Brake Lining Quality Control Test Procedure

Client Indubal
Camino a Melipilla 10750
Santiago
Chile
Formulation BTW
Sample A

Work Order No. 133273
Test No. M2237508
Date 26 Mar 13
Technician MCR
Prepared By

	Sample Mass	Sample Thickness			Indicator	Sample Size		
	grams	inches		average	inches	inches		
Initial	3.2996	0.213	0.216	0.218	0.000			
Final	3.0014	0.191	0.195	0.200	-0.018	Length	0.986	1.000
Loss	0.2982	0.022	0.021	0.018	0.018	Width	0.994	0.992
Loss %	9.04%				9.43%			

Total Work = 8.081 MJ

Wear Rate = 0.037 g/MJ

FIRST BASELINE		
Cycle	Temp °F	μ
1	196	0.49
5	199	0.62
10	202	0.62
15	201	0.62
20	201	0.62

SAE J866 FRICTION CLASSIFICATION			
	Sum	Mean	Class
Normal	2.34	0.586	H
Hot	5.49	0.549	G

SECOND FADE		
Minutes	Temp °F	μ
0.0	200	0.53 N
0.5	250	0.56 N
1.0	300	0.61 N
1.5	350	0.64
1.9	400	0.65 N
2.4	450	0.63 H
3.0	500	0.61 H
3.6	550	0.56 H
4.4	600	0.49 H
5.9	650	0.28 H

Pre-Wear Indicator (inches)
-0.001

FIRST FADE		
Minutes	Temp °F	μ
0.0	200	0.63
0.5	250	0.60
1.0	300	0.58
1.5	350	0.56
2.1	400	0.54
2.8	450	0.51
3.6	500	0.45
4.6	550	0.33

WEAR TEST		
Cycle	Temp °F	μ
1	390	0.58
10	401	0.65
20	400	0.65
30	401	0.69
40	401	0.70
50	403	0.70
60	405	0.70
70	406	0.72
80	408	0.72
90	409	0.71
100	408	0.71

SECOND RECOVERY		
Minutes	Temp °F	μ
600	500	0.52
500	500	0.61 H
400	400	0.62 H
300	300	0.59 H
200	200	0.57

FIRST RECOVERY		
Minutes	Temp °F	μ
500	500	0.46
400	400	0.54 H
300	300	0.57 H
200	200	0.53

Post-Wear Indicator (inches)
-0.015

SECOND BASELINE		
Cycle	Temp °F	μ
1	200	0.56
5	198	0.55
10	198	0.56
15	198	0.56
20	190	0.55

Wear Sequence Loss (inches)
0.014

Comments: No unusual noise or performance characteristics observed.

Test Speed = 417 r/min
Test Load = 150 lbf
μ = Friction Coefficient
* = Temperature not achieved
Temperatures reported at onset of application

Signature *Ann Vernatter*
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