

## SAE J661 (FEB97) Brake Lining Quality Control Test Procedure

Client	Indubal Camino a Melipilla 10750 Santiago Chile	Work Order No.	122555
Formulation	AF 2080	Test No.	M22-351-22
Sample	A	Date	31 Jul 12
		Technician	F. Thomas
		Prepared By	A. Hinson

	Sample Mass	Sample Thickness			Indicator	Sample Size		
	grams	inches	inches	average	inches	inches		
Initial	6.5510	0.217	0.222	0.219	0.000		min	max
Final	6.1005	0.212	0.211	0.207	-0.015	Length	0.994	0.995
Loss	0.4505	0.005	0.011	0.012	0.015	Width	0.998	0.998
Loss %	6.88%				4.26%			

Total Work = 6.086 MJ

Wear Rate = 0.074 g/MJ

FIRST BASELINE		
Cycle	Temp °F	μ
1	196	0.34
5	198	0.35
10	196	0.38
15	199	0.43
20	199	0.43

SAE J866 FRICTION CLASSIFICATION			
	Sum	Mean	Class
Normal	1.91	0.478	G
Hot	4.23	0.423	F

SECOND FADE		
Minutes	Temp °F	μ
0.0	200	0.47 N
0.6	250	0.48 N
1.2	300	0.49 N
1.8	350	0.47
2.4	400	0.47 N
3.0	450	0.46 H
3.7	500	0.47 H
4.4	550	0.45 H
5.4	600	0.35 H
6.9	650	0.31 H

Pre-Wear Indicator (inches)  
-0.002

FIRST FADE		
Minutes	Temp °F	μ
0.0	200	0.45
0.6	250	0.45
1.2	300	0.49
1.9	350	0.44
2.6	400	0.43
3.3	450	0.41
4.2	500	0.35
5.2	550	0.34

WEAR TEST		
Cycle	Temp °F	μ
1	390	0.49
10	396	0.48
20	396	0.48
30	396	0.48
40	396	0.49
50	396	0.49
60	396	0.49
70	396	0.49
80	396	0.49
90	396	0.49
100	396	0.49

SECOND RECOVERY		
	Temp °F	μ
	600	0.32
	500	0.40 H
	400	0.46 H
	300	0.49 H
	200	0.45

FIRST RECOVERY		
	Temp °F	μ
	500	0.35
	400	0.41 H
	300	0.44 H
	200	0.44


Post-Wear Indicator (inches)  
-0.013

SECOND BASELINE		
Cycle	Temp °F	μ
1	199	0.45
5	198	0.45
10	199	0.47
15	200	0.47
20	190	0.45

Wear Sequence Loss (inches)  
0.011

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   
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