

SAE J661 (FEB97) Brake Lining Quality Control Test Procedure

Client Stopco Friction Material, Inc.
#15 1st Floor Cheng Men XI
Raod Foshan Guang Dong, 528000
P.R. China
Formulation AY1L
Sample A

Work Order No. 062467
Test No. M22-169-13
Date 01 May 06
Technician F. Thomas
Prepared By A. Vernatter

<u>Sample Mass</u>		<u>Sample Thickness</u>			<u>Indicator</u>	<u>Sample Size</u>	
grams		inches			inches	inches	
Initial	3.4819	0.238	0.240	0.238	0.000		
Final	3.2176	<u>0.207</u>	<u>0.208</u>	<u>0.212</u>	<u>-0.032</u>	Length	<u>0.989</u> <u>0.990</u>
Loss	0.2643	0.031	0.032	0.026	0.032	Width	<u>0.970</u> <u>0.988</u>
Loss %	7.59%	Average Thickness Loss		12.43%			

FIRST BASELINE

Cycle	Temp °F	μ
1	200	0.37
5	200	0.44
10	200	0.50
15	200	0.52
20	200	0.53

SAE J866
FRICITION CLASSIFICATION

	Sum	Mean	Class
Normal	2.18	0.545	G
Hot	5.57	0.557	H

SECOND FADE

Minutes	Temp °F	μ	
0.0	200	0.53	N
	250	0.54	N
	300	0.54	N
	350	0.56	
	400	0.57	N
	450	0.58	H
	500	0.57	H
	550	0.58	H
	600	0.55	H
5.3	650	0.47	H

FIRST FADE

Minutes	Temp °F	μ
0.0	200	0.53
	250	0.50
	300	0.49
	350	0.48
	400	0.47
	450	0.46
	500	0.45
4.6	550	0.43

WEAR TEST

Cycle	Temp °F	μ
1	400	0.51
10	400	0.55
20	400	0.56
30	400	0.57
40	400	0.56
50	400	0.57
60	400	0.57
70	400	0.58
80	400	0.58
90	400	0.58
100	400	0.58

SECOND RECOVERY

Temp °F	μ	
600	0.59	
500	0.60	H
400	0.58	H
300	0.56	H
200	0.55	

FIRST RECOVERY

Temp °F	μ	
500	0.51	
400	0.54	H
300	0.54	H
200	0.58	

INDICATOR
-0.027

SECOND BASELINE

Cycle	Temp °F	μ
1	200	0.53
5	200	0.54
10	200	0.54
15	200	0.55
20	200	0.55

WEAR TEST LOSS
0.009

Total Work = 6.83 MJ
Wear Rate = 0.039 g/MJ

Test Speed = 417 r/min
Test Load = 150 lbf
Cooler Pressure = 17.0 lb/in²
Heater Voltage = 87.0% FS
μ = Friction Coefficient
* = Temperature Not Achieved

Comments:

No unusual noise or performance characteristics observed.

Signature

Ann Vernatter

Ann Vernatter, Data Supervisor
for Greening Testing Laboratories, Inc.



Greening TESTING LABORATORIES INC.
19465 Mt. Elliott Avenue
Detroit, MI USA 48234-2786
+1 313 366 7160 • fax: +1 313 366 5415
info@greeninginc.com • www.greeninginc.com

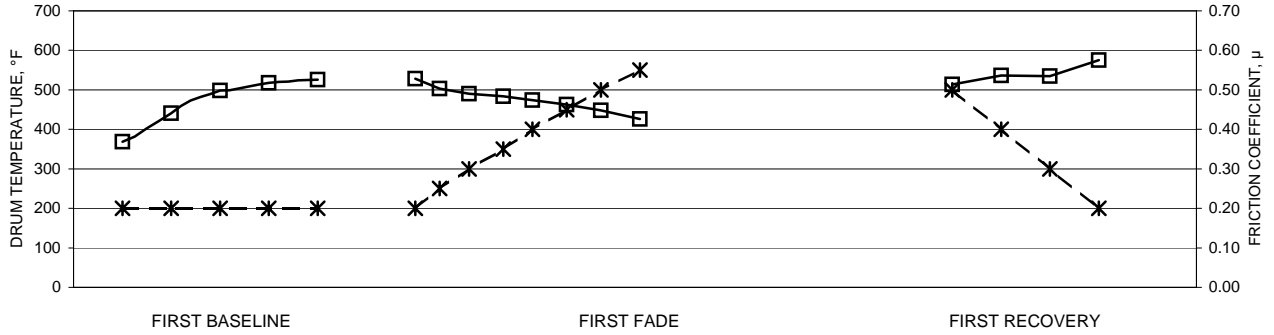
The results depicted in this report are valid only for the samples submitted and may not reflect the performance of these materials in general.
The layout, composition and organization of this test report is a trademark of Greening Testing Laboratories, Inc. Copyright ©2005 Greening Testing Laboratories, Inc. All rights reserved.
Uncertainty data available upon request.

SAE J661 (FEB97) Brake Lining Quality Control Test Procedure

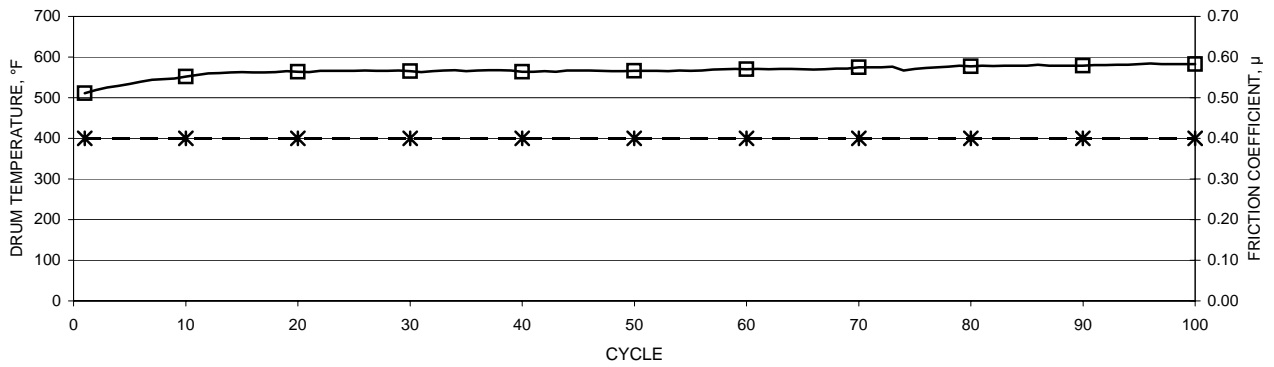
Client Formulation Stopco Friction Material, Inc.
AY1L

Work Order No. 062467
Test No. M22-169-13

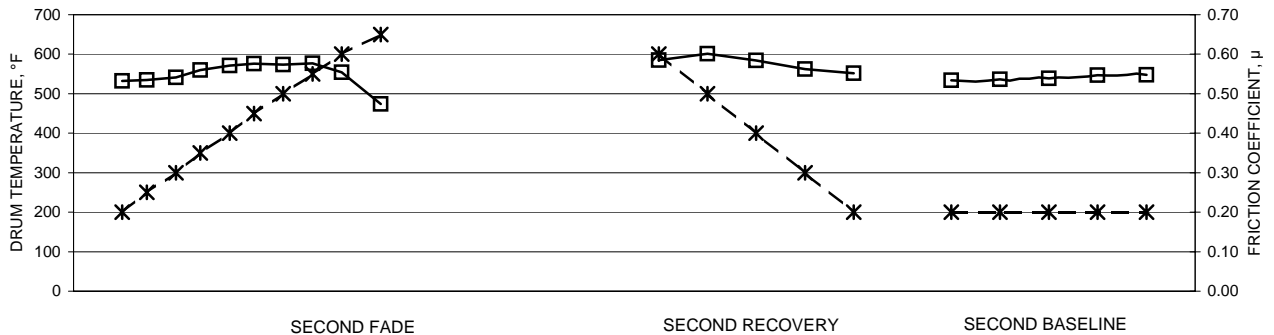
FIRST BASELINE, FADE, RECOVERY



WEAR TEST



SECOND BASELINE, FADE, RECOVERY



—□— μ
—*— Drum Temperature