

SAE J661 (FEB97) Brake Lining Quality Control Test Procedure

Client	Indubal Camino a Melipilla 10750 Santiago Chile	Work Order No.	111689
		Test No.	M22-325-13
		Date	26 Aug 11
Formulation	BIN	Technician	T. Stefanski
Sample	A	Prepared By	A. Vernatter

	Sample Mass	Sample Thickness			Indicator	Sample Size		
	grams	inches	inches	average	inches	inches		
Initial	3.5540	0.237	0.237	0.235	0.000			
Final	3.2284	0.209	0.211	0.207	-0.030	Length	0.984	0.994
Loss	0.3256	0.028	0.026	0.028	0.030	Width	0.992	0.993
Loss %	9.16%				11.57%			

Total Work = 7.624 MJ

Wear Rate = 0.043 g/MJ

FIRST BASELINE			SAE J866 FRICTION CLASSIFICATION			SECOND FADE		
Cycle	Temp °F	μ	Sum	Mean	Class	Minutes	Temp °F	μ
1	195	0.46	Normal	2.26	0.564	0.0	200	0.51
5	220	0.55				0.4	250	0.56
10	229	0.57	Hot	4.86	0.486	0.9	300	0.59
15	231	0.59				1.3	350	0.59
20	219	0.60				1.8	400	0.60
			<u>Pre-Wear Indicator (inches)</u>			2.4	450	0.59
			-0.008			3.0	500	0.56
						3.8	550	0.50
						4.7	600	0.41
						6.3	650	0.22
FIRST FADE			WEAR TEST			SECOND RECOVERY		
Minutes	Temp °F	μ	Cycle	Temp °F	μ	Temp °F	μ	
0.0	200	0.62	1	390	0.55	600	0.42	
0.3	250	0.59	10	425	0.60	500	0.54	H
0.9	300	0.55	20	425	0.63	400	0.58	H
1.5	350	0.50	30	430	0.66	300	0.57	H
2.2	400	0.47	40	438	0.67	200	0.53	
3.1	450	0.41	50	443	0.68			
4.2	500	0.31	60	449	0.68			
6.1	550	0.15	70	448	0.68			
			80	448	0.67			
			90	444	0.66			
			100	439	0.64			
FIRST RECOVERY			<u>Post-Wear Indicator (inches)</u>			SECOND BASELINE		
Temp °F	μ		-0.027			Cycle	Temp °F	μ
500	0.19					1	200	0.53
400	0.39	H				5	218	0.59
300	0.52	H				10	229	0.61
200	0.60					15	231	0.61
			<u>Wear Sequence Loss (inches)</u>			20	193	0.63
			0.019					

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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Client Indubal
Formulation BIN

Work Order No. 111689
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