

SAE J661 (STABILIZED NOV 2012) Brake Lining Quality Control Test Procedure

Client	ProTec Friction Group 45 Kensico Drive Mount Kisco, NY 10549 United States	Work Order No.	144485
		Test No.	M22-433-16
		Date	11 May 14
Formulation	TF600	Technician	F. Thomas
Sample	A	Prepared By	A. Vernatter

	Sample Mass	Sample Thickness			Indicator	Sample Size			
	grams	inches	inches	average	inches	inches			
						min	max		
Initial	4.1123	0.247	0.250	0.252	0.250	0.000			
Final	3.8395	0.215	0.220	0.225	0.220	-0.028	Length	0.997	1.000
Loss	0.2728	0.032	0.030	0.027	0.030	0.028	Width	0.989	0.998
Loss %	6.63%				11.88%				

Total Work = 7.83 MJ

Wear Rate = 0.035 g/MJ

FIRST BASELINE			SAE J866 FRICTION CLASSIFICATION			SECOND FADE					
Cycle	Temp °F	μ	Sum	Mean	Class	Minutes	Temp °F	μ			
1	188	0.52	Normal	2.45	0.613	H	0.0	200	0.56	N	
5	197	0.59					0.5	250	0.59	N	
10	200	0.61	Hot	6.13	0.613	H	1.0	300	0.62	N	
15	202	0.61					1.4	350	0.66		
20	205	0.62					1.9	400	0.67	N	
			<u>Pre-Wear Indicator (inches)</u>				2.4	450	0.71	H	
			-0.009				2.9	500	0.68	H	
			<u>WEAR TEST</u>				3.4	550	0.66	H	
			Cycle	Temp °F	μ		4.0	600	0.63	H	
			1	390	0.62		4.8	650	0.47	H	
			10	398	0.63						
			20	402	0.63						
			30	401	0.63						
			40	400	0.67						
			50	406	0.70						
			60	413	0.71						
			70	419	0.72						
			80	419	0.71						
			90	426	0.72						
			100	427	0.73						
			<u>Post-Wear Indicator (inches)</u>								
			-0.025								
			<u>Wear Sequence Loss (inches)</u>								
			0.016								

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

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