



Brake Dynamometer Test Report

Customer Test Report #

Link Test Report #: D1375 FRONT 210902

Test Description: D1375 FRONT

Customer Reference: 1

Program # V06022A0

Platform: D1375 FRONT

Lining Material: P43

Test Date: 09/02/21

Requested By:

Zhongshan Safety Auto Parts Co.,Ltd.
Li dongwei

Tested By:

Testing Coordination and Facility
Link Transportation Testing Technology (Shanghai) Co., Ltd
Building No.2, 778 Zhao Xian Road, Jiading District, Shanghai
Shanghai, 201821
www.linkeng.com
Phone: (021) 5916-5656
Fax: (021) 5916-5959

Test Information

Customer Name	Zhongshan Safety Auto Parts Co.,Ltd.
Requestor	
Test Procedure	SAE J2521
Program Number	V06022A0
Test Coordinator	song
Technician	YI&chen
Dynamometer	3900
Parts received, start and end dates	N/A, 09/02/21- 09/03/21
Datalog, Template version	3.11 , 1.87

Setup Details

Fixture Identification	N/A
Fixture Design	N/A
Drive adapter method	N/A

Dynamometer Information

Rolling Radius	308.0 mm
Gross Axle Weight	N/A kg
Required Wheel Load	N/A kg
Actual Wheel Load	853.5 kg
Required Inertia	81.0 kg·m ²
Actual Inertia	80.9 kg·m ²

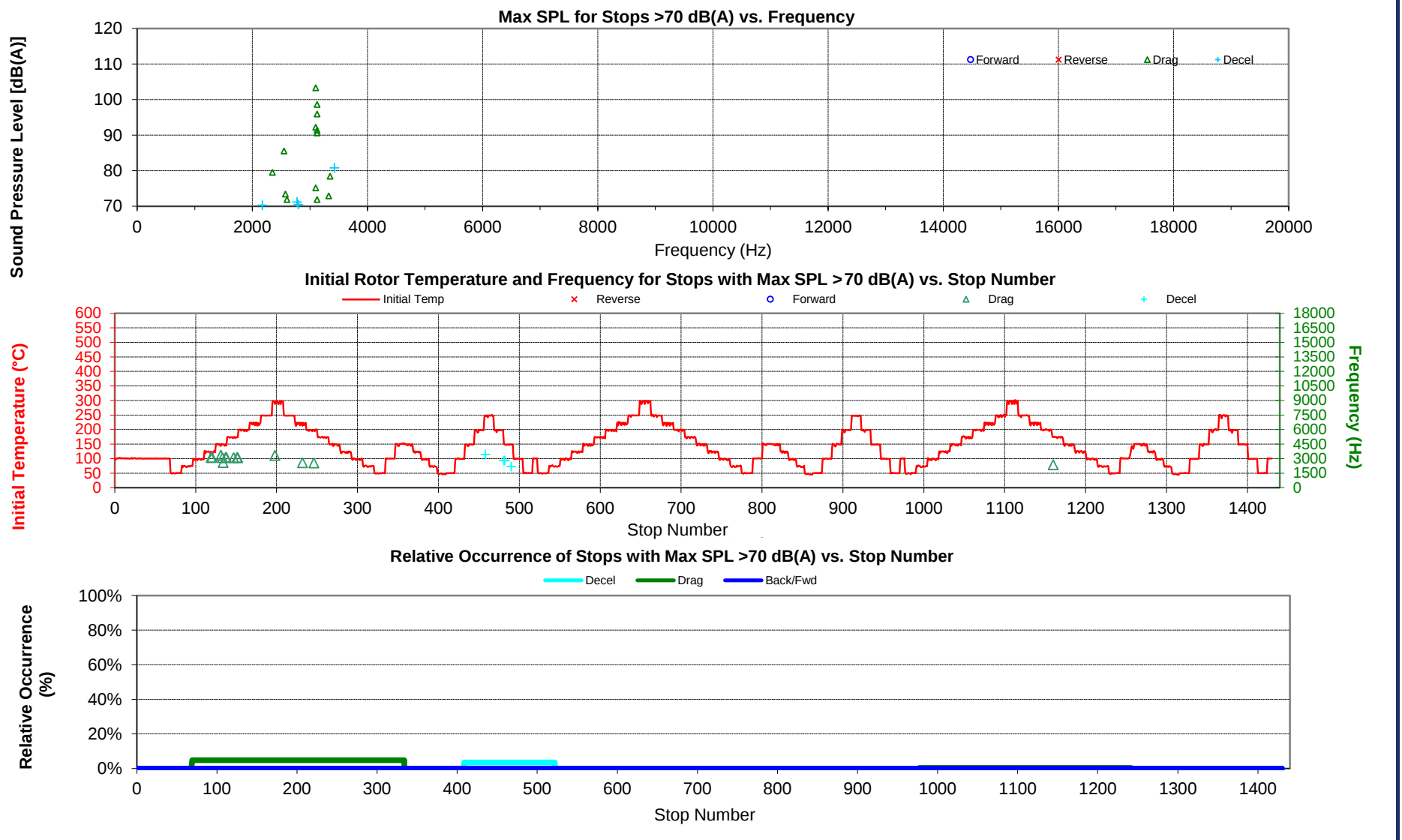
Brake Information

Brake Platform	D1375 Front
Brake Type	Disc
Brake Size	N/A
Brake ID Number	
Drum/Rotor Type	standard
Drum/Rotor Finish	Used
Pri/Lead/Inner Lining	P43
Sec/Trail/Outer Lining	P43
Orientation	Left
Effective Radius	127.5 mm
Number of Pistons/Cyls	1
Coefficient Multiplier	0.0196
Piston Diameter	54.0 mm

Comments:

Processed by:	Title	Date
(313) 933-4900		09/07/2021
Reviewed by:	Title	Date
(313) 933-4900		09/07/2021

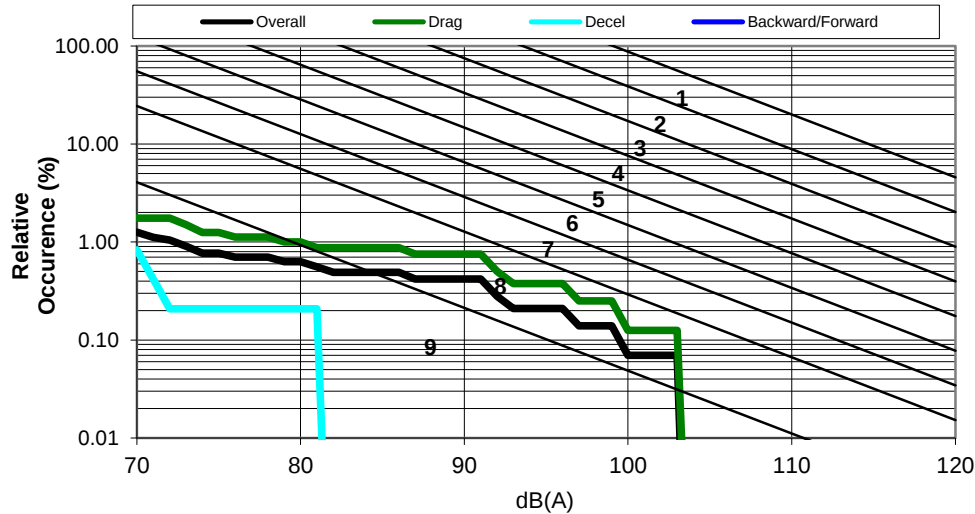
Data applicable to the materials tested. Report can be copied in full.
Bilateral uncertainty of measurements 0.63% of FS. Coverage factor of 2. Confidence of 95%. Details available upon request.



Test Description: D1375 FRONT			Effective Radius	127.5 mm
			Piston Diameter	1x54.0 mm
	Rotor	P43	Actual Inertia	80.9 kg·m²
	Primary Lining	P43	Actual Wheel Load	853.5 kg
	Secondary Lining		Rolling Radius	308.0 mm

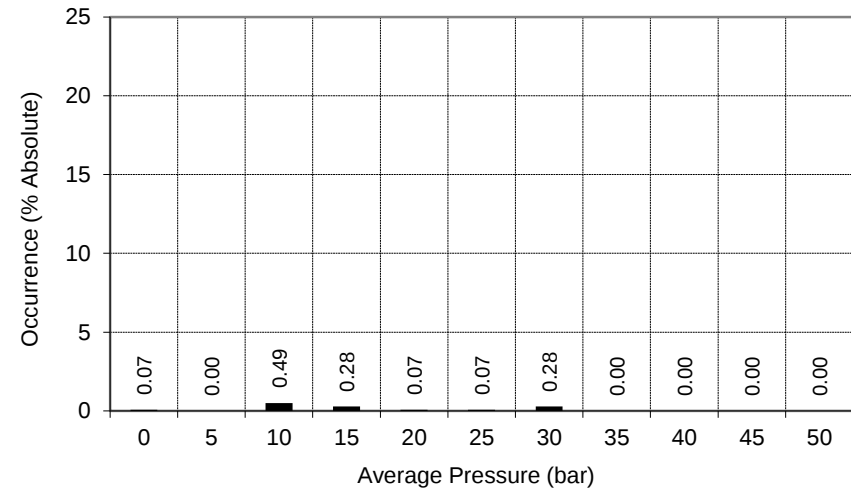
Cummulative Percentage of Noisy Stops

Noise Index = 8.4

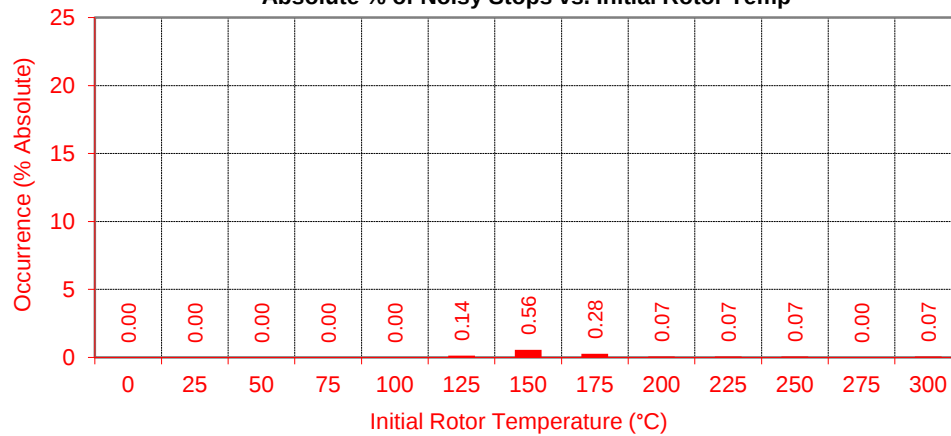


*Noisy Stops defined as those with Max SPL>70dB(A)

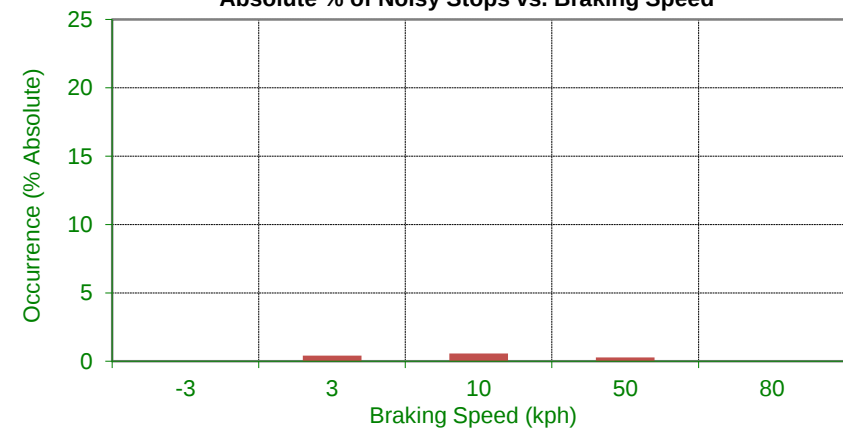
Absolute % of Noisy Stops vs. Average Pressure



Absolute % of Noisy Stops vs. Initial Rotor Temp



Absolute % of Noisy Stops vs. Braking Speed



Test Description:

D1375 FRONT

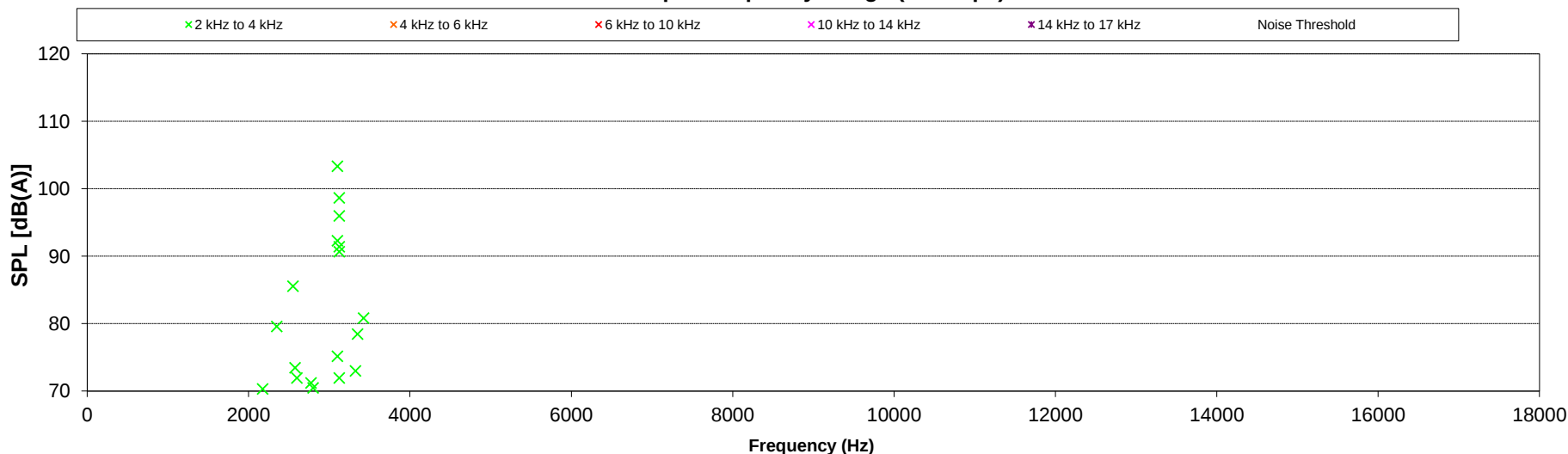
Rotor
Primary Lining
Secondary Lining

Effective Radius	127.5 mm
Piston Diameter	1x54.0 mm
P43 Actual Inertia	80.9 kg·m²
P43 Actual Wheel Load	853.5 kg
Rolling Radius	308.0 mm



Frequency Range	Threshold	Number of Noisy Stops (per frequency range / apply type)				Percentage (%) Noisy Stops (per frequency range / apply type)			
		Overall	Drag	Decel	Back/Fwd	Overall	Drag	Decel	Back/Fwd
2 kHz to 17 kHz	>70 dB(A)	18	14	4	0	1.3%	1.8%	0.8%	0.0%
	>80 dB(A)	8	7	1	0	0.6%	0.9%	0.2%	0.0%
2 kHz to 4 kHz	>70 dB(A)	18	14	4	0	1.3%	1.8%	0.8%	0.0%
	>80 dB(A)	8	7	1	0	0.6%	0.9%	0.2%	0.0%
4 kHz to 6 kHz	>70 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
	>80 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
6 kHz to 10 kHz	>70 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
	>80 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
10 kHz to 14 kHz	>70 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
	>80 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
14 kHz to 17 kHz	>70 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
	>80 dB(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
Total # of Stops						1430	798	482	150

Max SPL per Frequency Range (All stops)



Test Description:

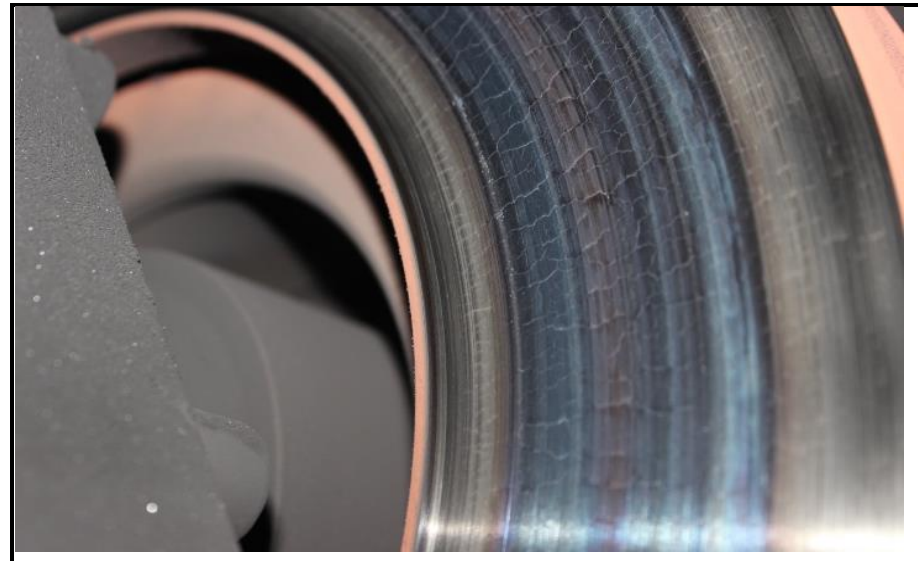
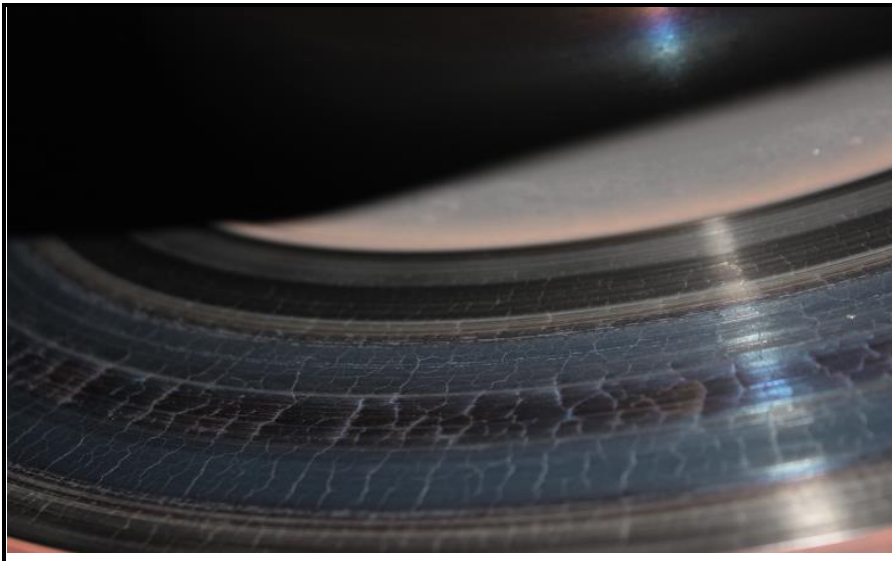
D1375 FRONT

Rotor
Primary Lining
Secondary Lining

P43
P43

Effective Radius 127.5 mm
Piston Diameter 1x54.0 mm
Actual Inertia 80.9 kg·m²
Actual Wheel Load 853.5 kg
Rolling Radius 308.0 mm

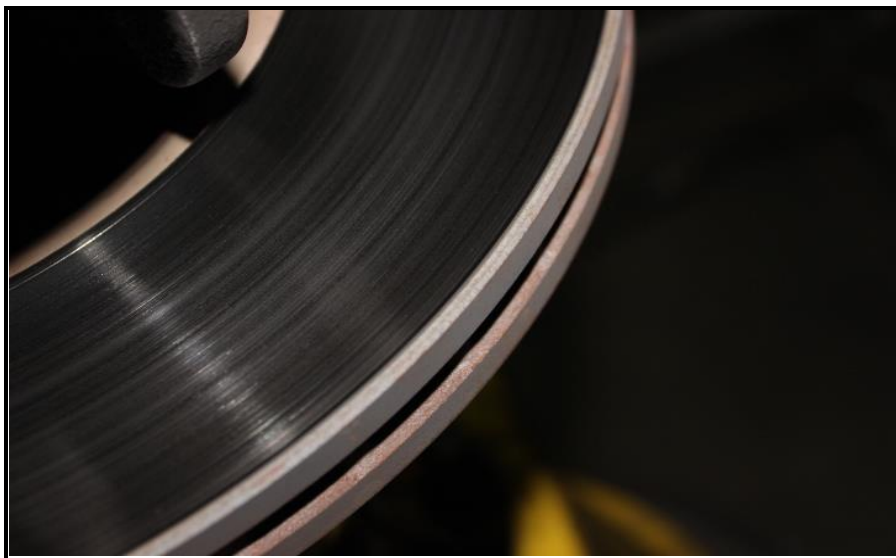
Before test



Material: P43

SAE J2521

After test



Material: P43

SAE J2521