Brake Dynamometer Test Report

Customer Test Report #	220614
Link Test Report #:	D465 FRONT 220614
Test Description:	D465 Front SAE J2521
Customer Reference:	1
Program #	V06022A0
Platform:	D465 Front
Lining Material:	P32AP
Test Date:	06/14/22

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	3360
Parts received, start and end dates	N/A, 06/14/22 - 06/15/22
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	670.9 kg
Required Inertia	63.7 kg·m²
Actual Inertia	63.2 kg·m²

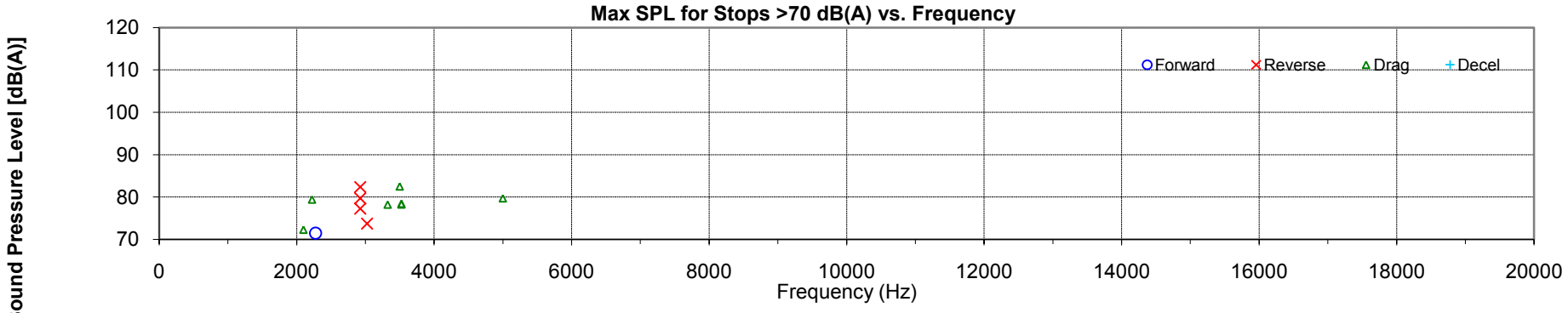
Brake Information

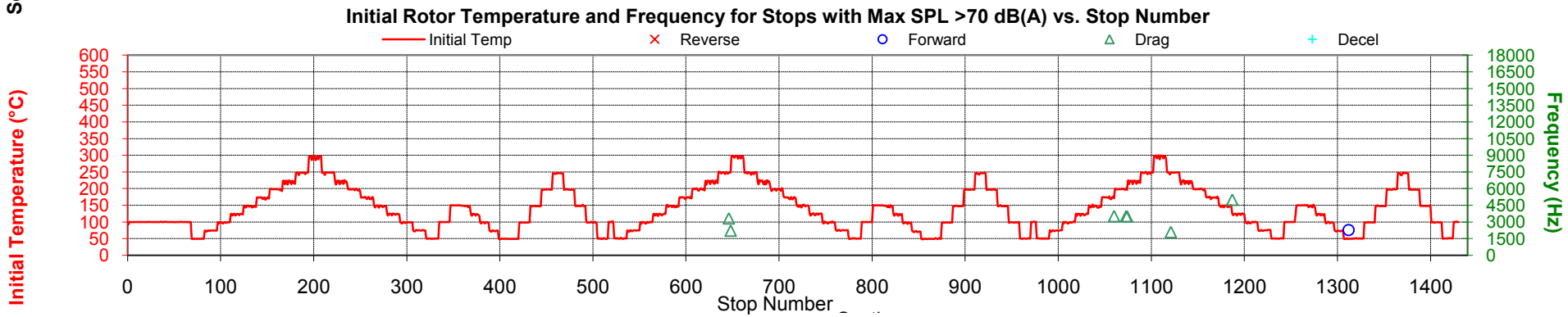
Brake Platform	D465 Front
Brake Type	Disc
Brake Size	N/A
Brake ID Number	
Drum/Rotor Type	standard
Drum/Rotor Finish	Used
Pri/Lead/Inner Lining	P32AP
Sec/Trail/Outer Lining	P32AP
Orientation	Left
Effective Radius	107.5 mm
Number of Pistons/Cyls	1
Coefficient Multiplier	0.0196
Piston Diameter	55.0 mm

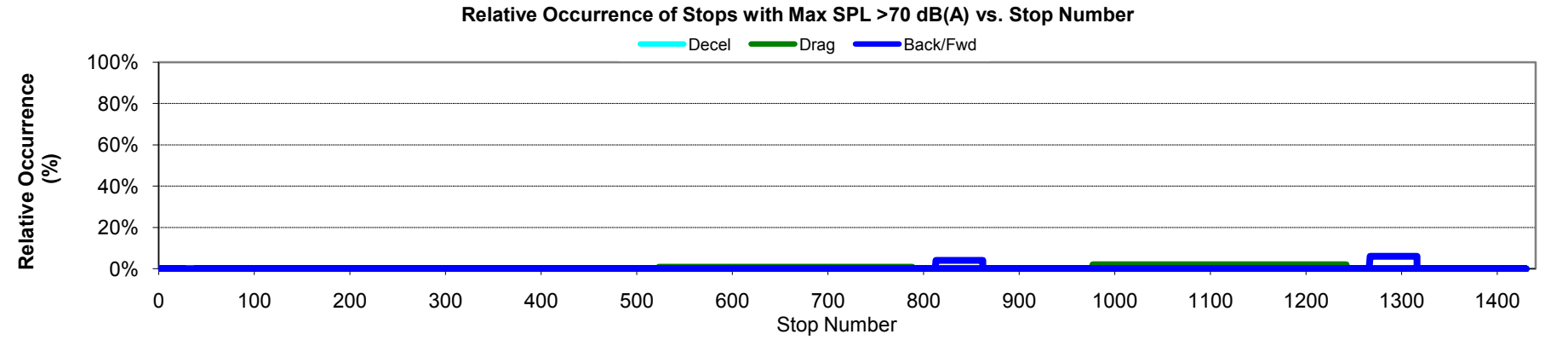
Comments:

Processed by: **Title** **Date** 6/16/2022
(313) 933-4900

Reviewed by: **Title** **Date** 6/16/2022
(313) 933-4900

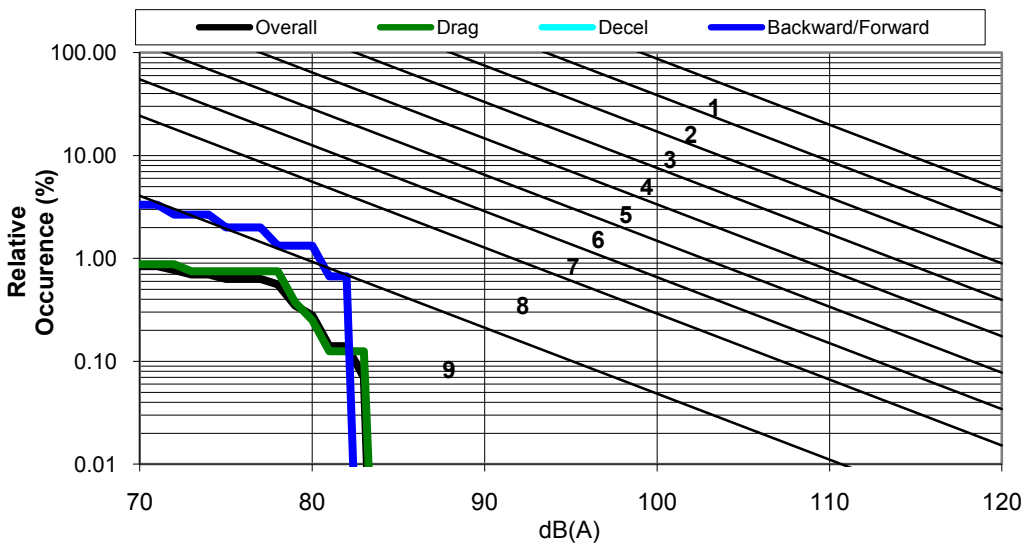






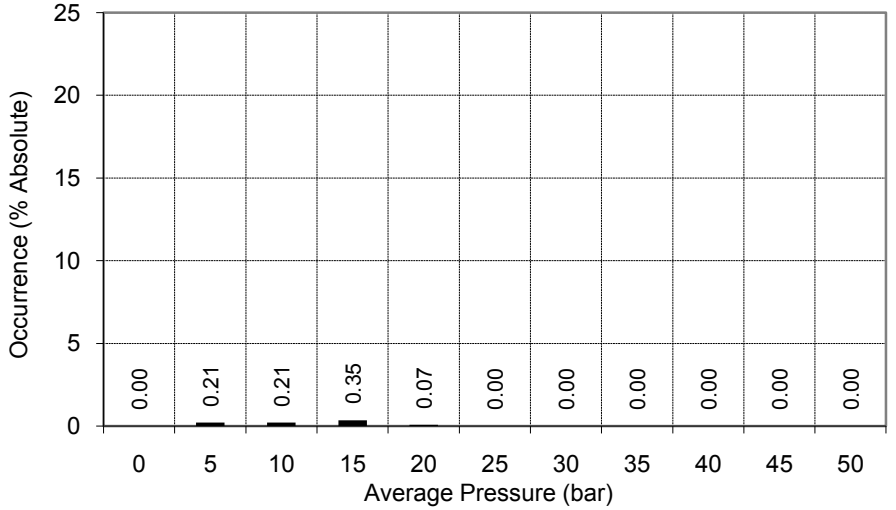
Test Description:				
D465 Front SAE J2521	Rotor		Effective Radius	107.5 mm
	Primary Lining	P32AP	Piston Diameter	1x55.0 mm
	Secondary Lining	P32AP	Actual Inertia	63.2 kg·m²
			Actual Wheel Load	670.9 kg
			Rolling Radius	308.0 mm

Cummulative Percentage of Noisy Stops

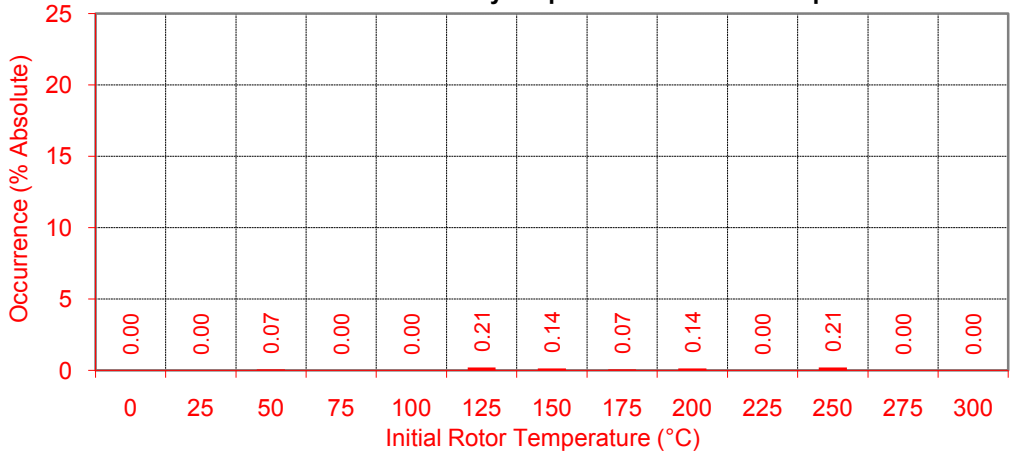


*Noisy Stops defined as those with Max SPL>70dB(A)

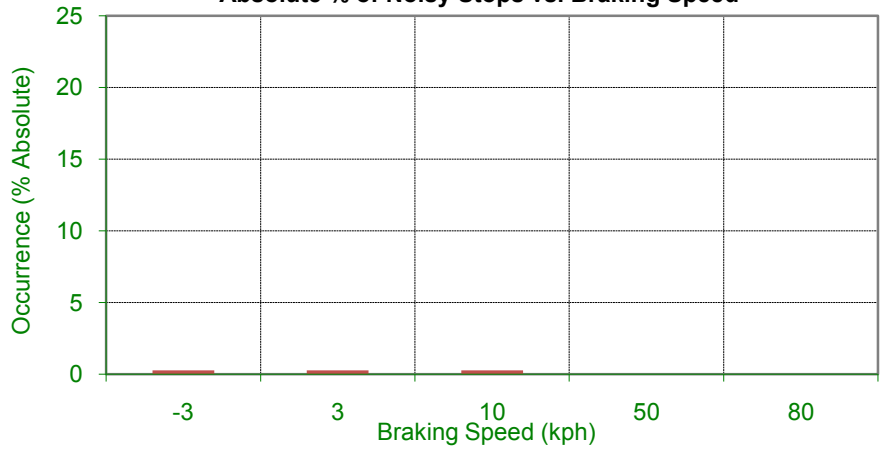
Absolute % of Noisy Stops vs. Average Pressure



Absolute % of Noisy Stops vs. Initial Rotor Temp



Absolute % of Noisy Stops vs. Braking Speed



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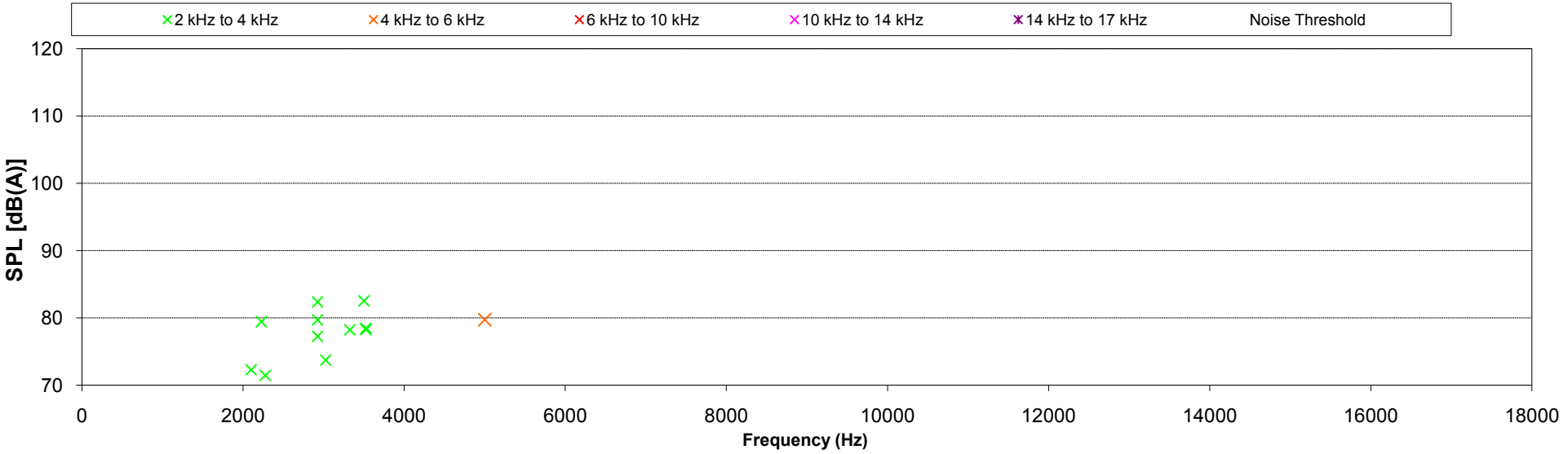
			Rolling Radius	308.0 mm

Frequency Range	Threshold	Number of Noisy Stops (per frequency range / apply type) Overall	Drag	Decel	Back/Fwd	Percentage (%) Noisy Stops (per frequency range / apply type) Overall	Drag	Decel	Back/Fwd
2 kHz to 17 kHz	>70 dB(A)	**12**	7	0	5	**0.8%**	0.9%	0.0%	3.3%
	>80 dB(A)	**2**	1	0	1	**0.1%**	0.1%	0.0%	0.7%
2 kHz to 4 kHz	>70 dB(A)	**11**	6	0	5	**0.8%**	0.8%	0.0%	3.3%
	>80 dB(A)	**2**	1	0	1	**0.1%**	0.1%	0.0%	0.7%
4 kHz to 6 kHz	>70 dB(A)	**1**	1	0	0	**0.1%**	0.1%	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)



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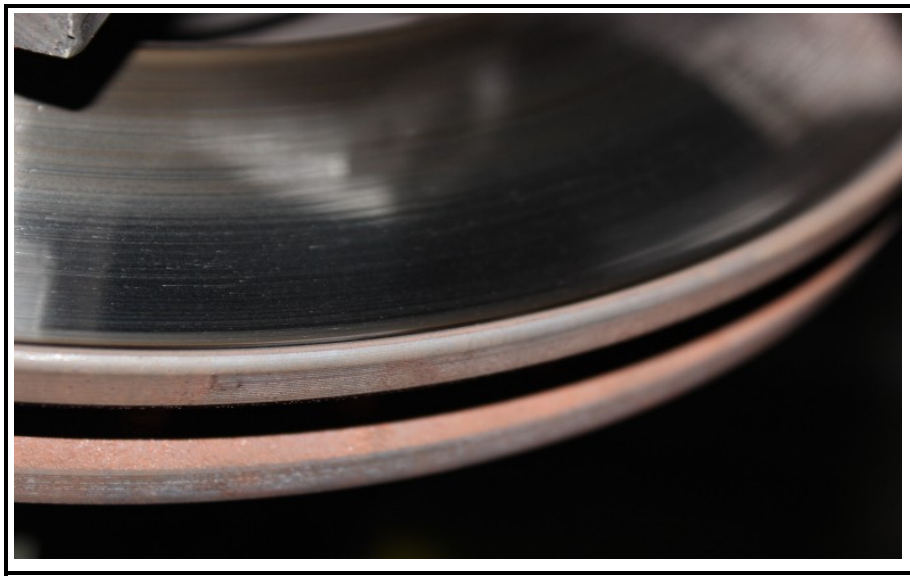
Before test

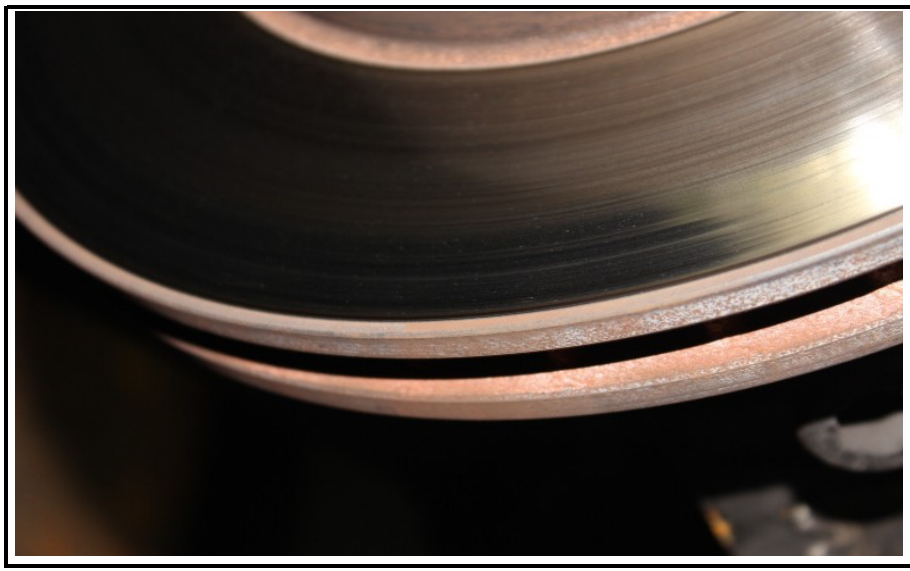
LINK

Material: P32AP

SAE J2521

After test





LINK

Material: P32AP

SAE J2521