



Brake Dynamometer Test Report

Customer Test Report #

Link Test Report #:

BYD SONG-PLUS FRONT 220422

Test Description:

BYD SONG-PLUS FRONT SAE J2521

Customer Reference:

1

Program #

Platform:

BYD SONG-PLUS FRONT

Lining Material:

P43

Test Date:

04/22/22

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	
Requestor	
Test Procedure	SAE J2521
Program Number	V06022A0
Test Coordinator	
Technician	
Dynamometer	
Parts received, start and end dates	N/A, 04/22/22 - 04/23/22
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	349.0 mm
Gross Axle Weight	N/A kg
Required Wheel Load	N/A kg
Actual Wheel Load	875.6 kg
Required Inertia	106.7 kg·m ²
Actual Inertia	106.2 kg·m ²

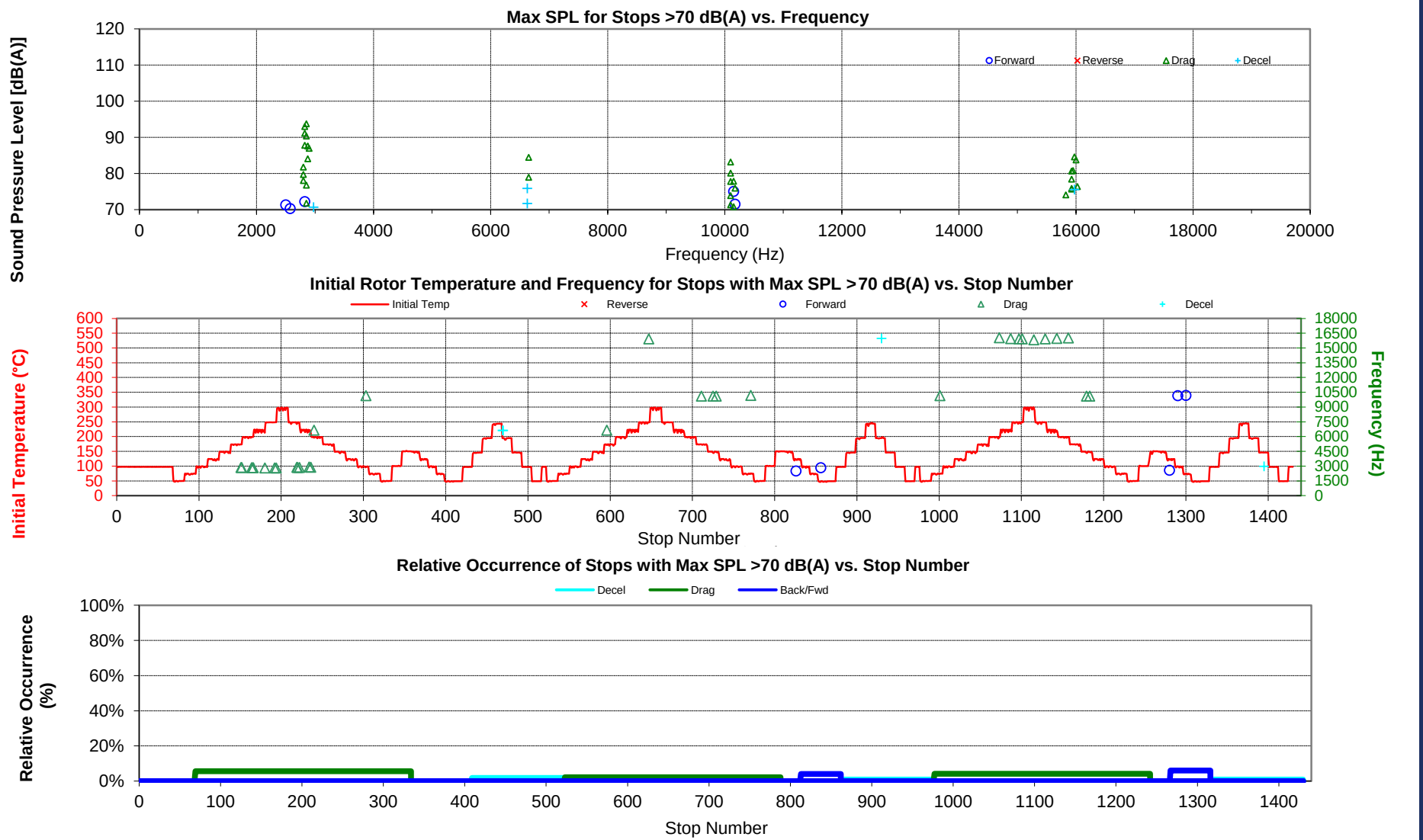
Brake Information

Brake Platform	BYD SONG-PLUS 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	134.0 mm
Number of Pistons/Cyls	1
Coefficient Multiplier	0.0132
Piston Diameter	60.0 mm

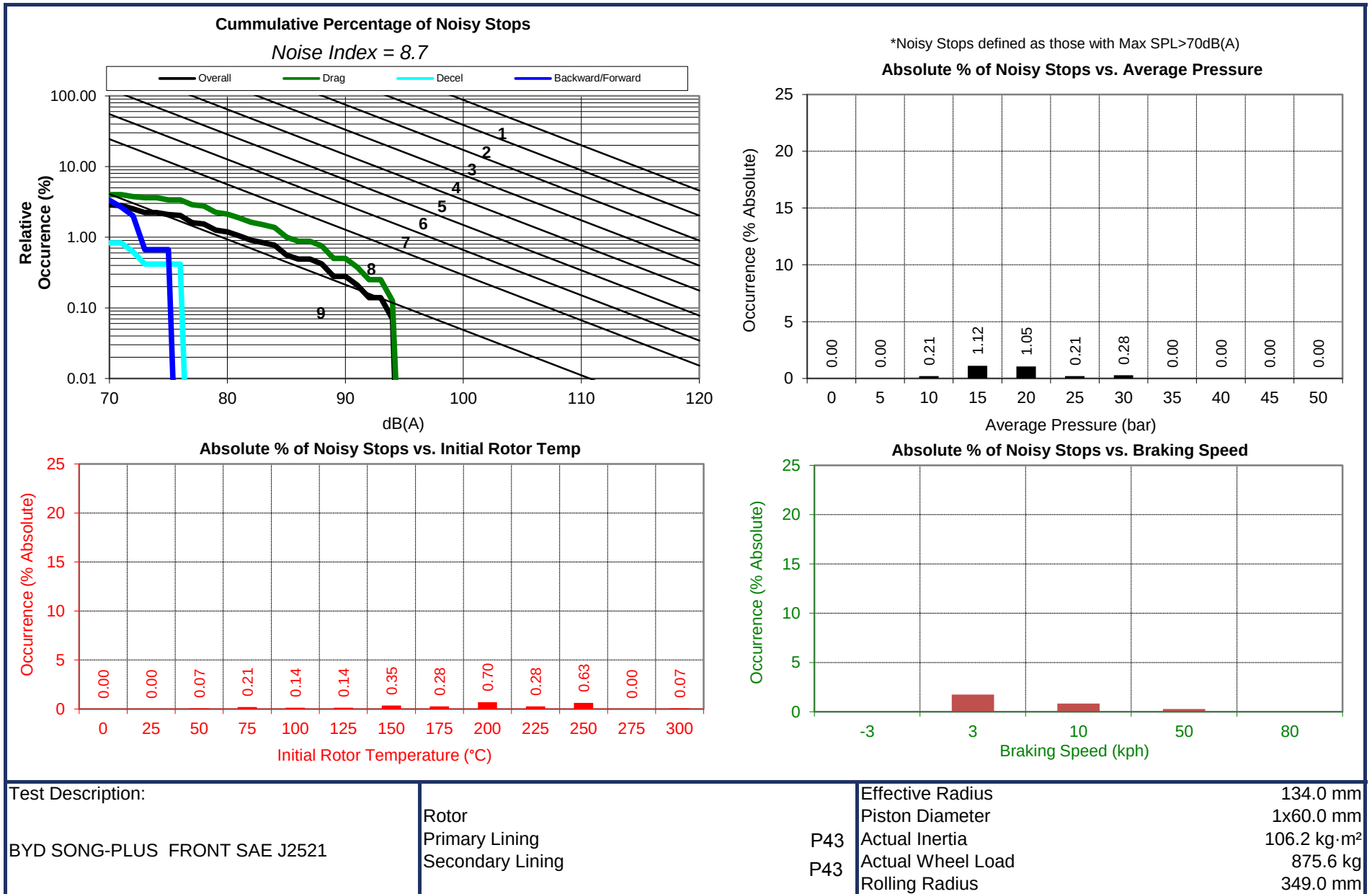
Comments:

Processed by:	Title	Date	4/23/2022
(313) 933-4900			
Reviewed by:	Title	Date	4/23/2022
(313) 933-4900			

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.

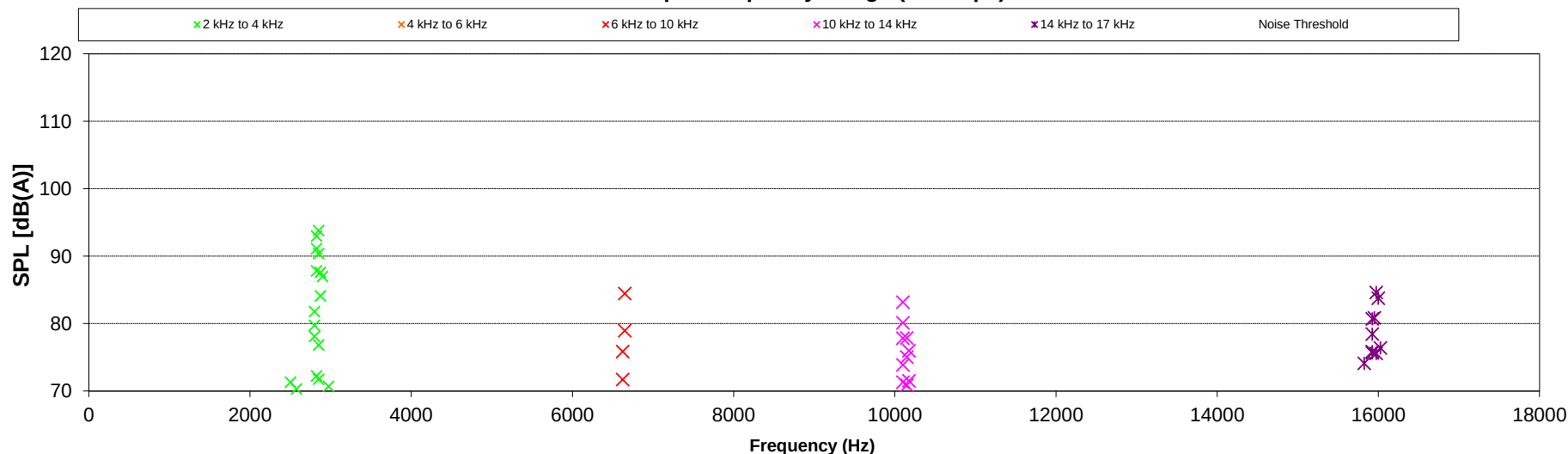


Test Description: BYD SONG-PLUS FRONT SAE J2521	Rotor		Effective Radius	134.0 mm	
	Primary Lining		P43	Piston Diameter	1x60.0 mm
	Secondary Lining		P43	Actual Inertia	106.2 kg·m²
				Actual Wheel Load	875.6 kg
				Rolling Radius	349.0 mm



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)	41	32	4	5	2.9%	4.0%	0.8%	3.3%
	>80 dB(A)	16	16	0	0	1.1%	2.0%	0.0%	0.0%
2 kHz to 4 kHz	>70 dB(A)	17	13	1	3	1.2%	1.6%	0.2%	2.0%
	>80 dB(A)	9	9	0	0	0.6%	1.1%	0.0%	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)	4	2	2	0	0.3%	0.3%	0.4%	0.0%
	>80 dB(A)	1	1	0	0	0.1%	0.1%	0.0%	0.0%
10 kHz to 14 kHz	>70 dB(A)	10	8	0	2	0.7%	1.0%	0.0%	1.3%
	>80 dB(A)	2	2	0	0	0.1%	0.3%	0.0%	0.0%
14 kHz to 17 kHz	>70 dB(A)	10	9	1	0	0.7%	1.1%	0.2%	0.0%
	>80 dB(A)	4	4	0	0	0.3%	0.5%	0.0%	0.0%
Total # of Stops						1430	798	482	150

Max SPL per Frequency Range (All stops)



Test Description:

BYD SONG-PLUS FRONT SAE J2521

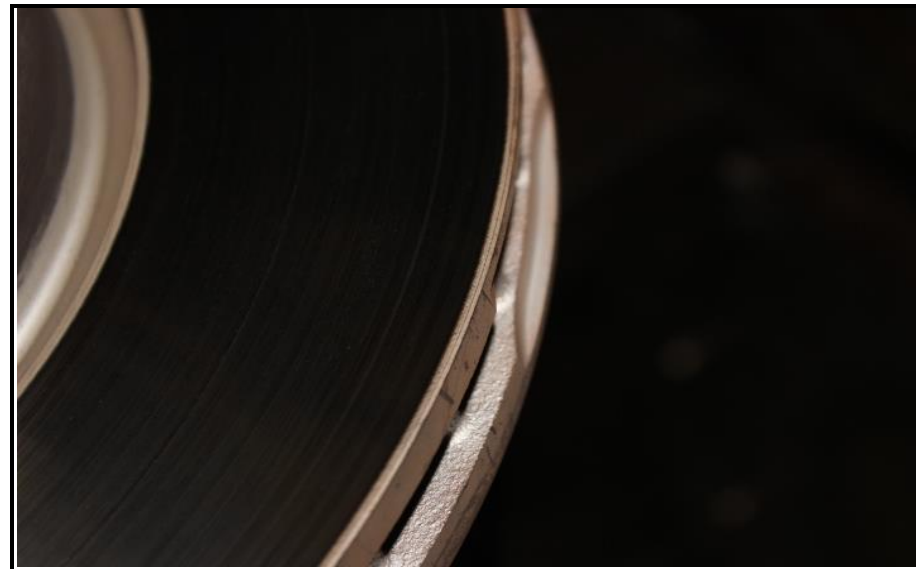
Rotor
Primary Lining
Secondary Lining

P43

P43

Effective Radius 134.0 mm
Piston Diameter 1x60.0 mm
Actual Inertia 106.2 kg·m²
Actual Wheel Load 875.6 kg
Rolling Radius 349.0 mm

Before test



SAE J2521

Material: P43

After test



SAE J2521

Material: P43