Kyoto Japan Tire (International) S.A

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Presentation of Kyoto Japan Low-Metal Formula for Brake Pads

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Kyoto Japan Low-Metal Formula for Brake Pads:

Kyoto Japan Low-metal formula is developed to improve the wear resistance, as well as keep excellent friction and noise performance with advanced friction material technology of OE standard.

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Characteristics of Kyoto Japan low-metal formula:

- High temperature resistance;
- High braking force & stopping with excellent friction coefficient in a variety of braking pressure & braking speed;
- Superiorly low wear In long drive;
- Outstanding wheel cleanliness technology;
- Low noise;
- Maximum Comfort and Service Life;
- Superior safety and stable performance;
- Stable Fade with fast recovery;

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Physical performance

Items		Theoretical value	Notes
Density	g/cm3	2.5±0.25	
Hardness	HRS	80±20	
pH value		＞9.0	
Cold compressibility	μm	100±40	Can be adjusted according to customers' requirements
Hot compressibility	μm	＜200	
Heat transfer	℃	≤230℃	
Swell	μm	≤100	

Friction coefficient test （AK-Master）：

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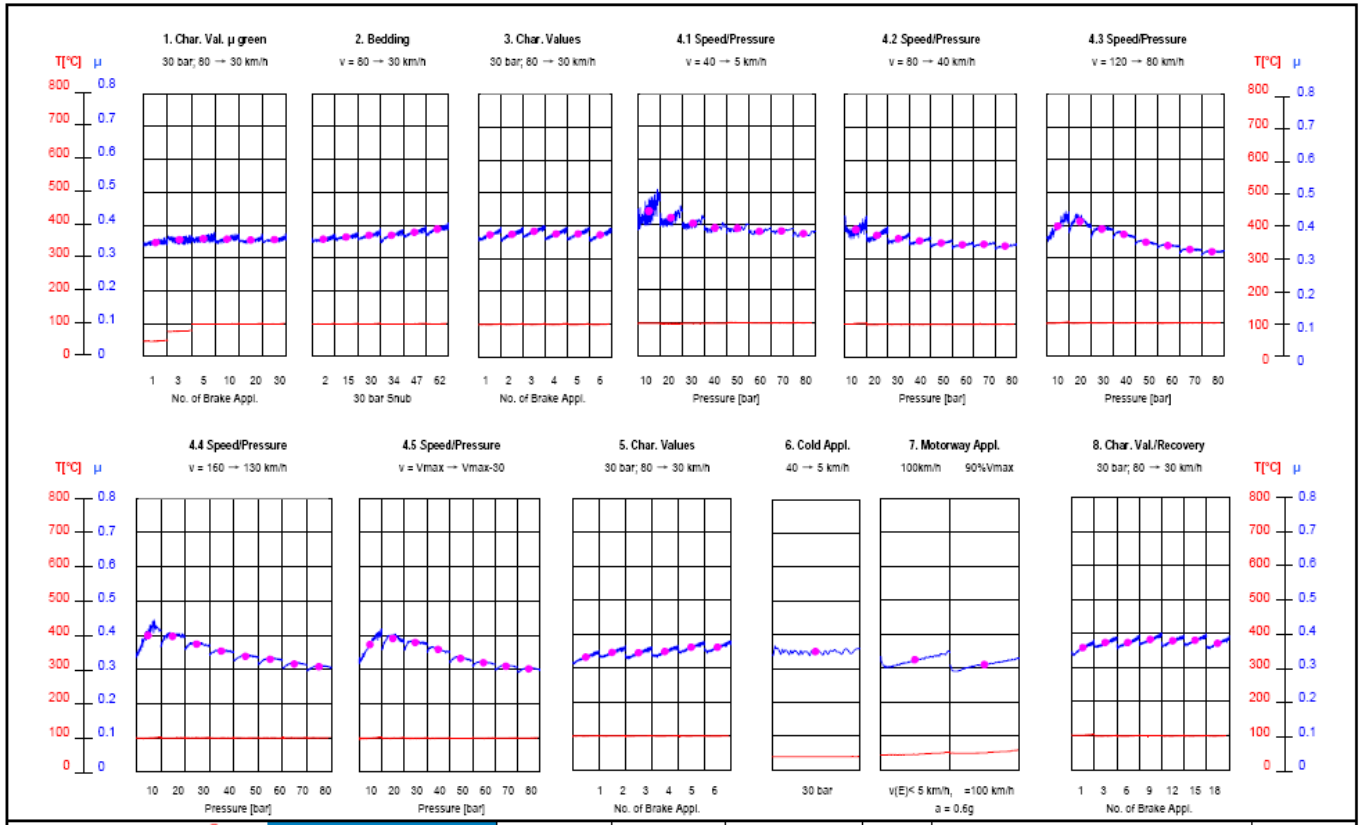

Comments , test platform is base on GW HAVAL H9

Friction coefficient test （AK-Master）：

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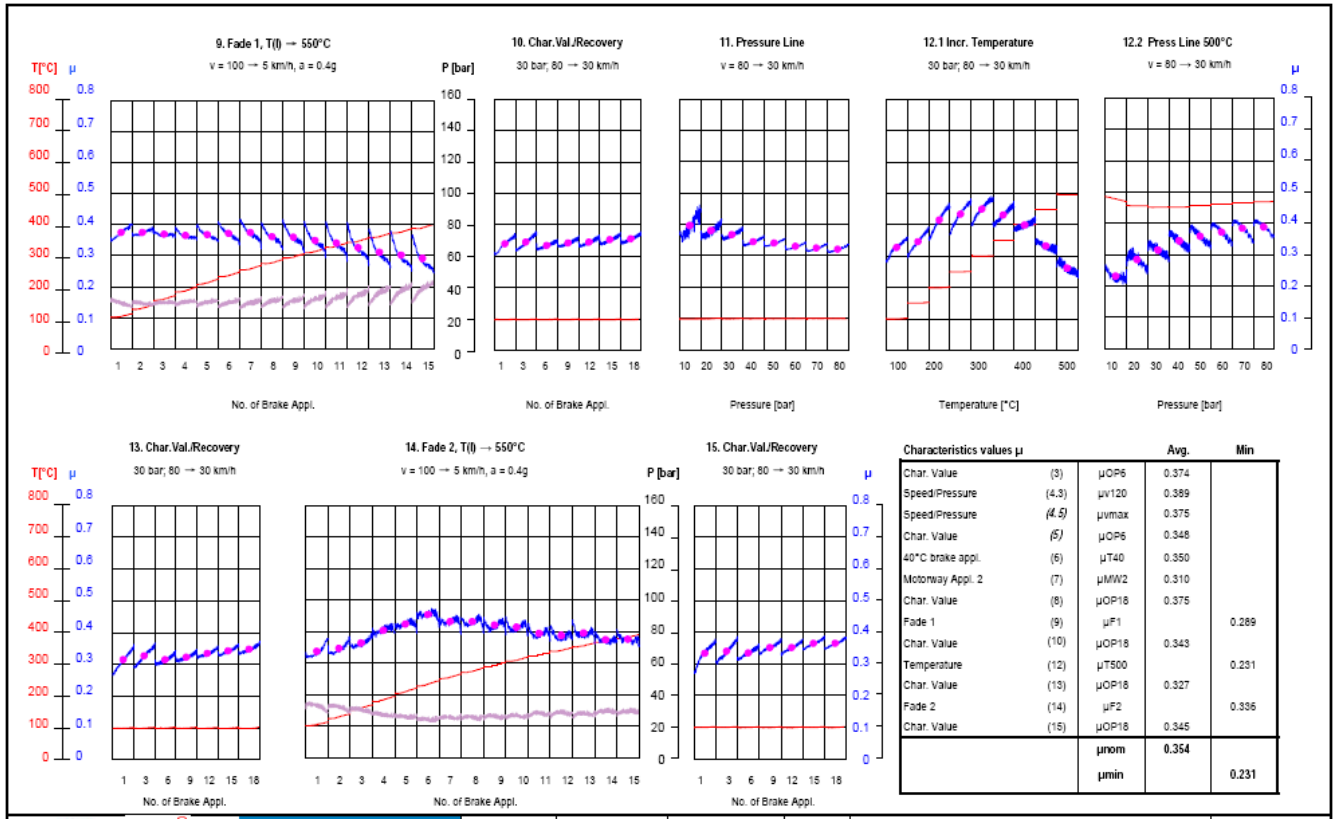

Characteristics values μ

			Avg.	Min
Char. Value	(3)	μOP6	0.374	
Speed/Pressure	(4.3)	μv120	0.389	
Speed/Pressure	(4.5)	μvmax	0.375	
Char. Value	(5)	μOP6	0.348	
40°C brake appl.	(6)	μT40	0.350	
Motorway Appl. 2	(7)	μMW2	0.310	
Char. Value	(8)	μOP18	0.375	
Fade 1	(9)	μF1		0.289
Char. Value	(10)	μOP18	0.343	
Temperature	(12)	μT500		0.231
Char. Value	(13)	μOP18	0.327	
Fade 2	(14)	μF2		0.336
Char. Value	(15)	μOP18	0.345	
		μnom	**0.354**	
		μmin		**0.231**

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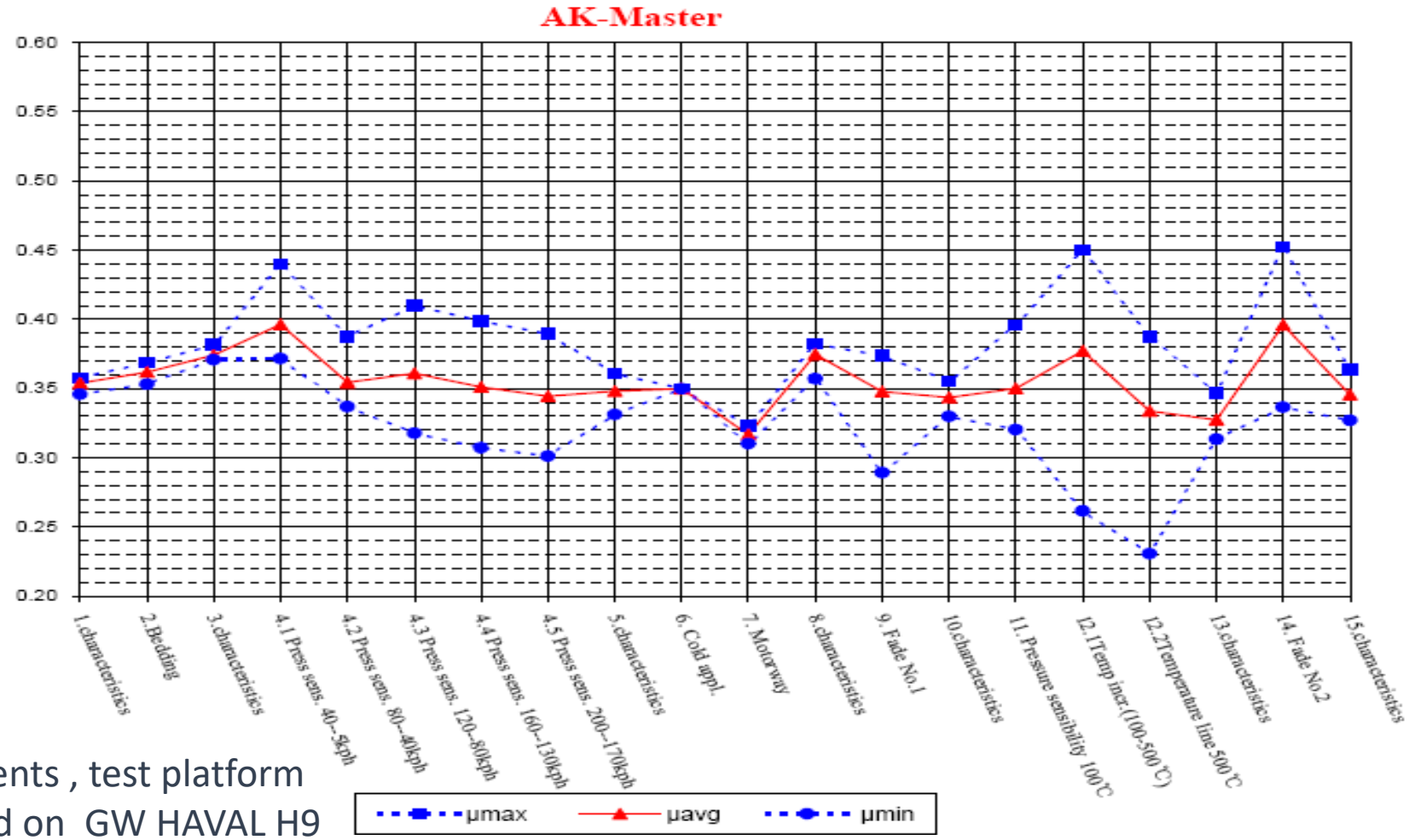
Friction coefficient test （AK-Master）：



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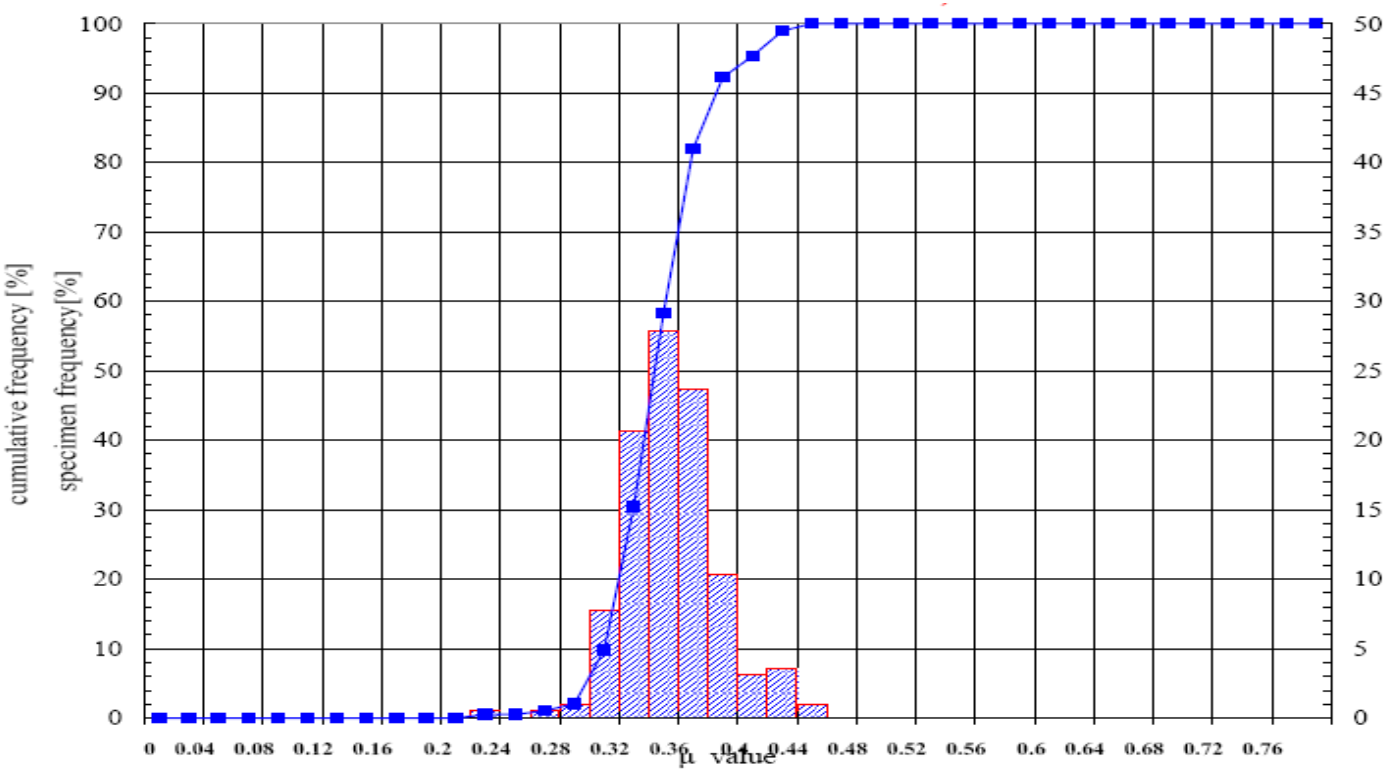
Friction coefficient test （AK-Master）：



Comments，test platform is based on GW HAVAL H9

Friction coefficient test (Krauss)：

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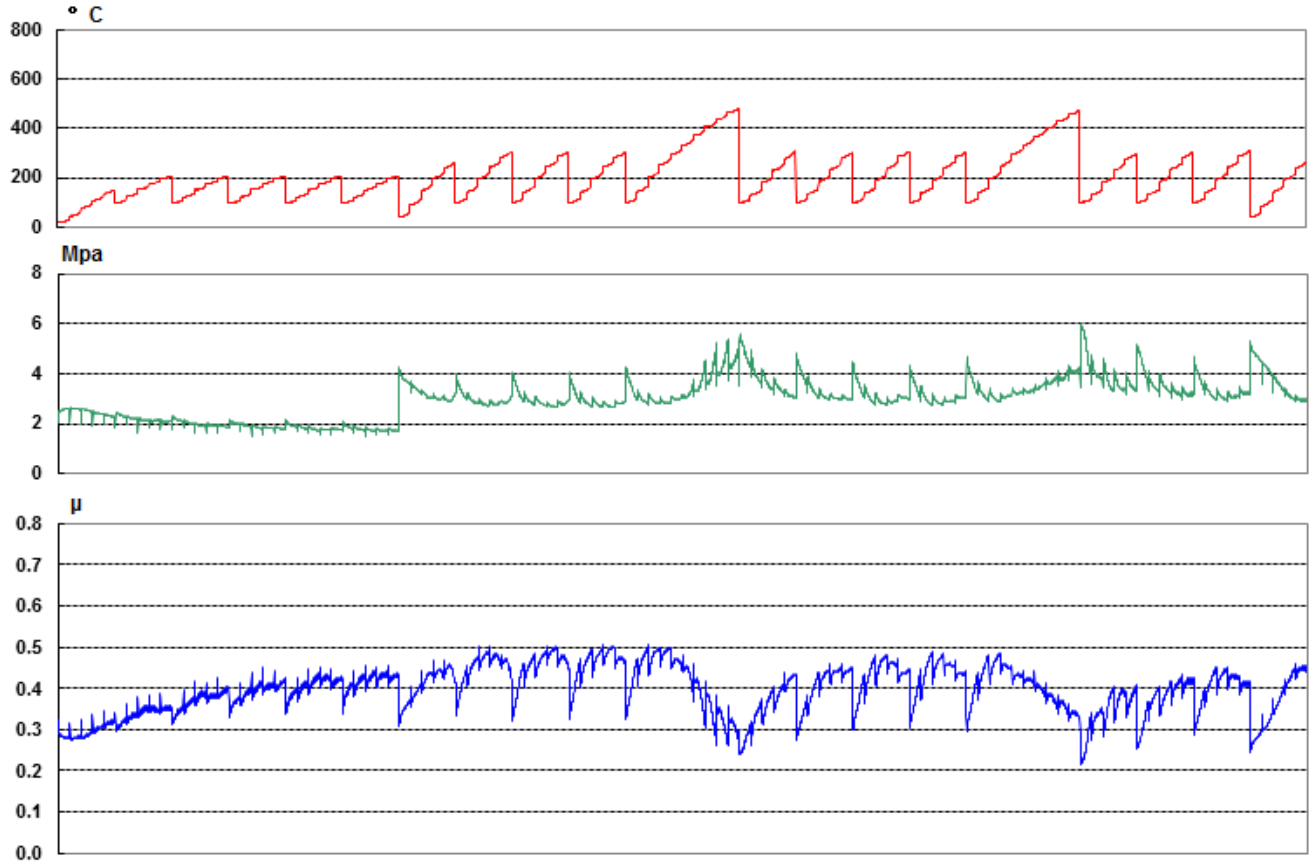

Item	Coefficients
μ_{K1}	0.330
μ_{K2}	0.264
μ_{B1}	0.355
μ_{B2}	0.300
μ_{B3}	0.263
μ_{min}	0.216
μ_{max}	0.507
μ_{F1}	0.262
μ_{F2}	0.323

Comments , test platform is based on GW HAVAL H9

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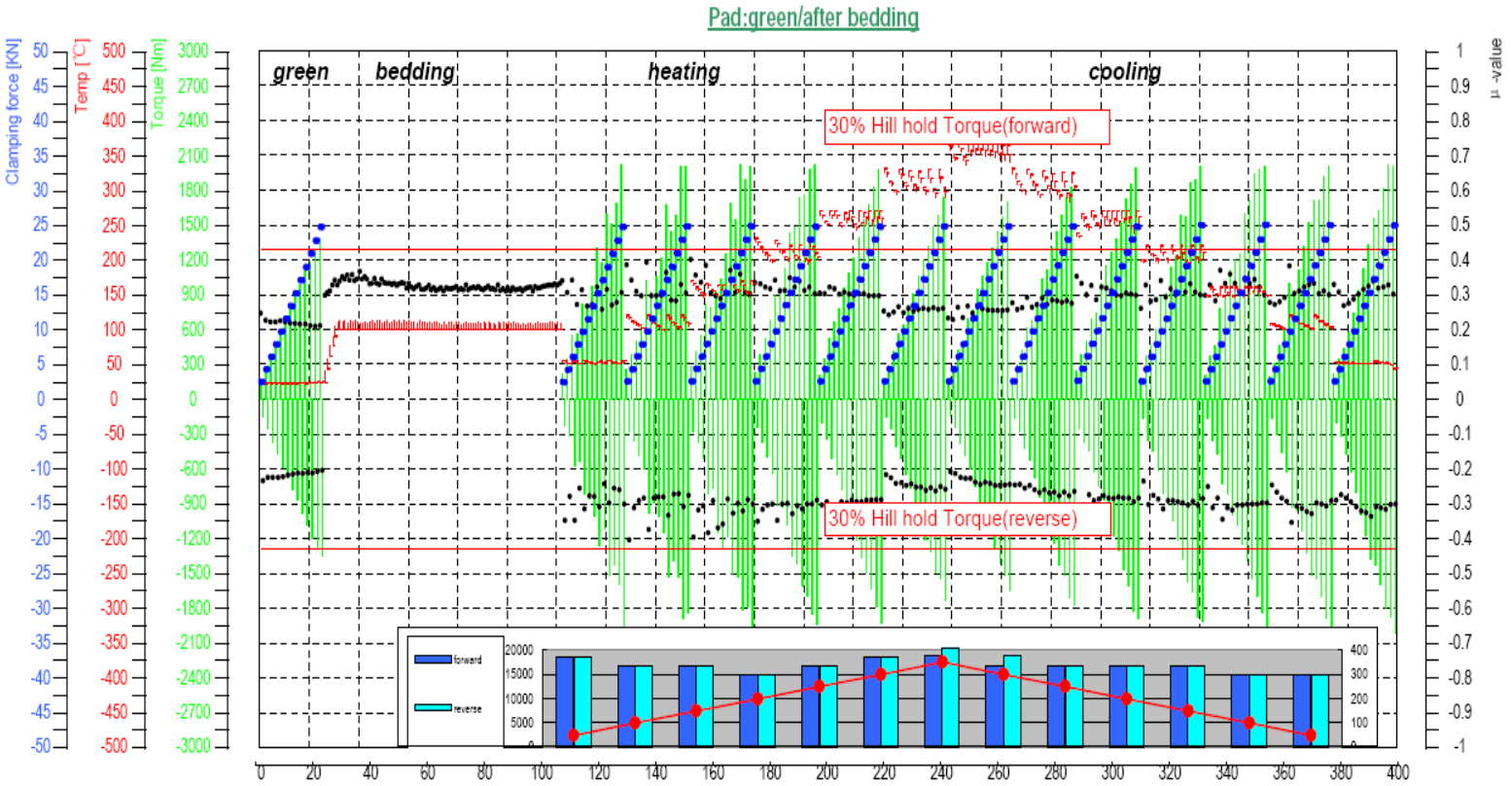
Static-μ test：



Test platform is based on GW HAVAL H9

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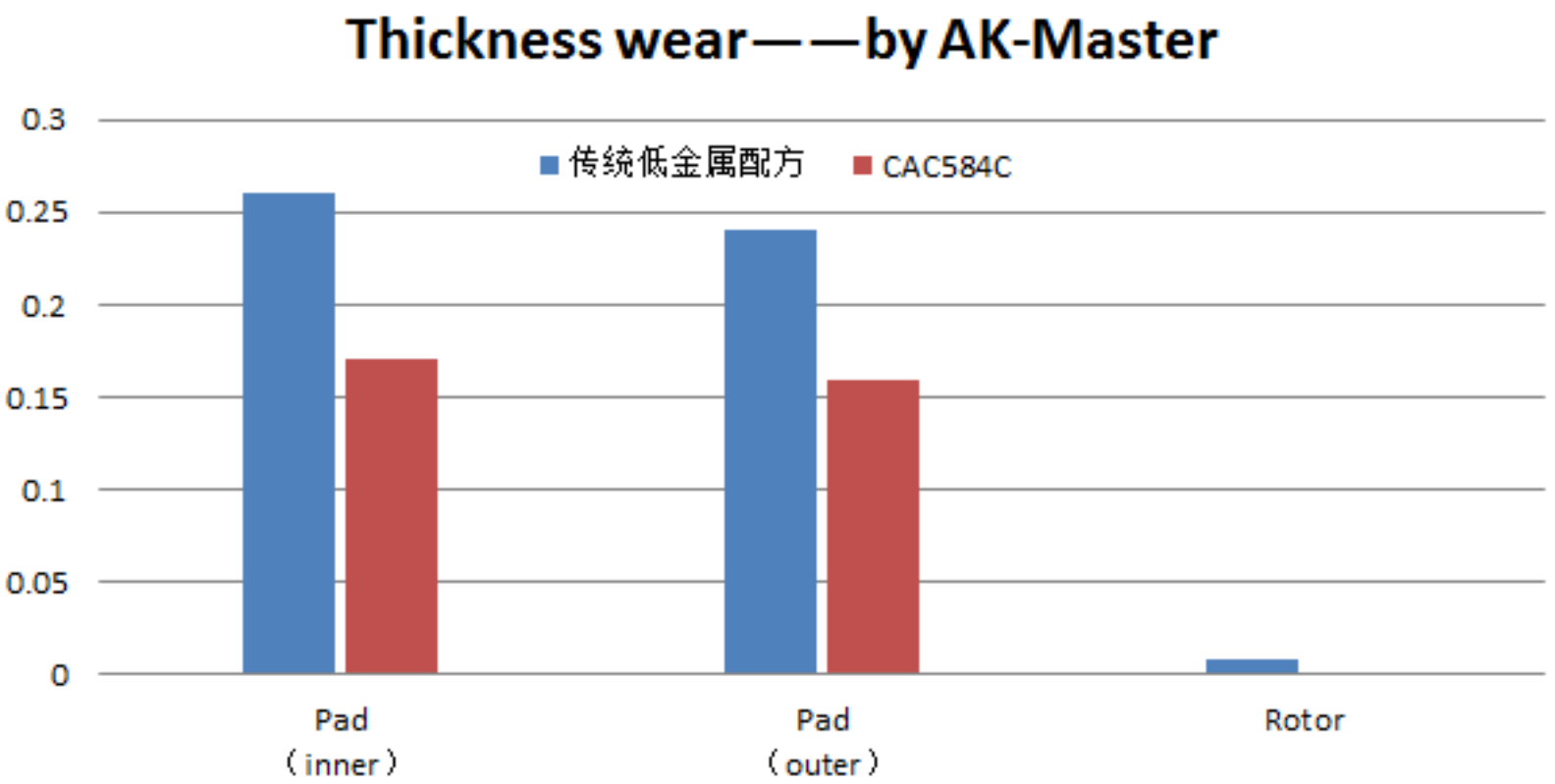
Wear resistance of material

Traditional Low-metallic Formula



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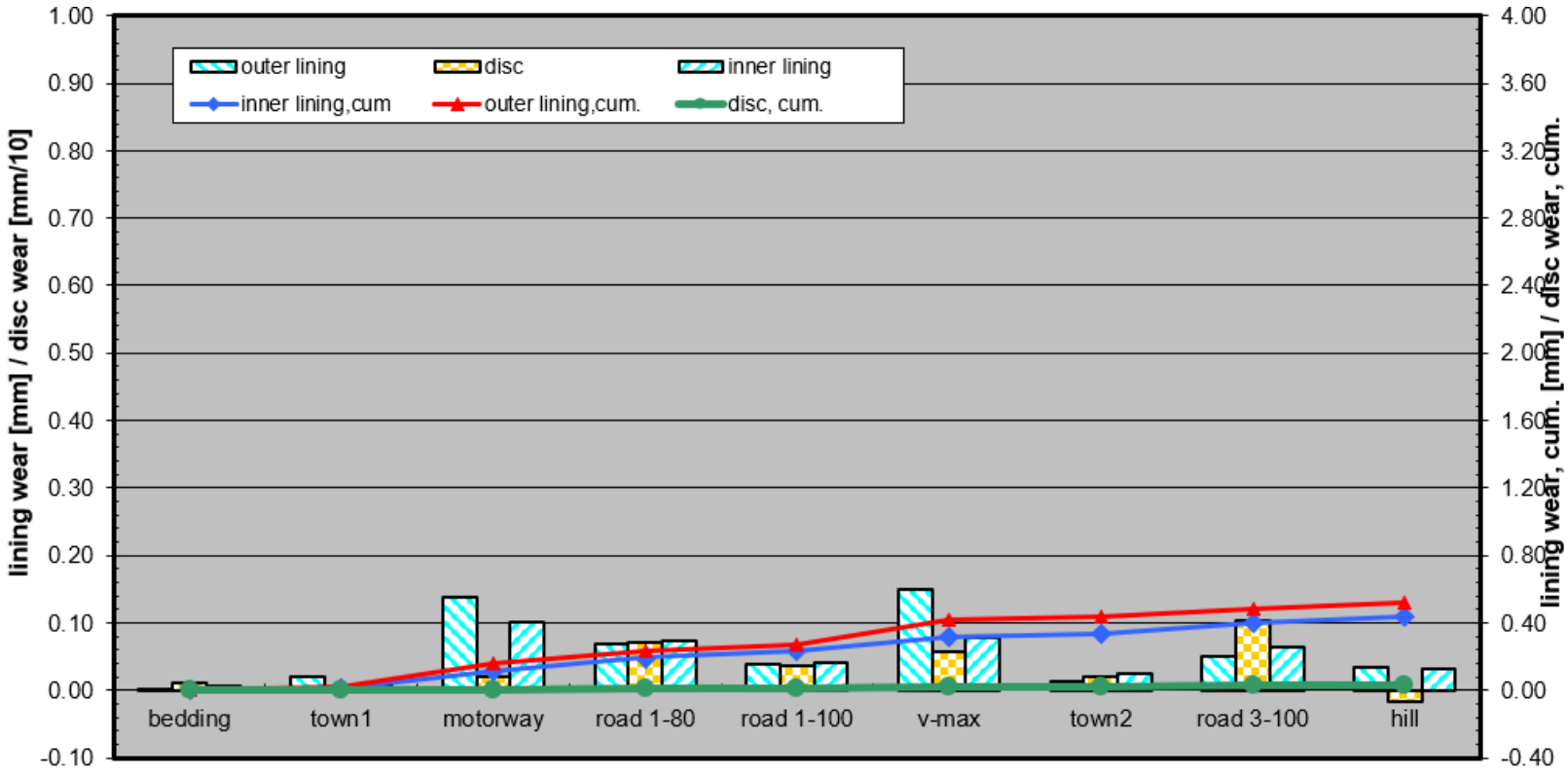
Wear resistance of material



AMS Performance of material

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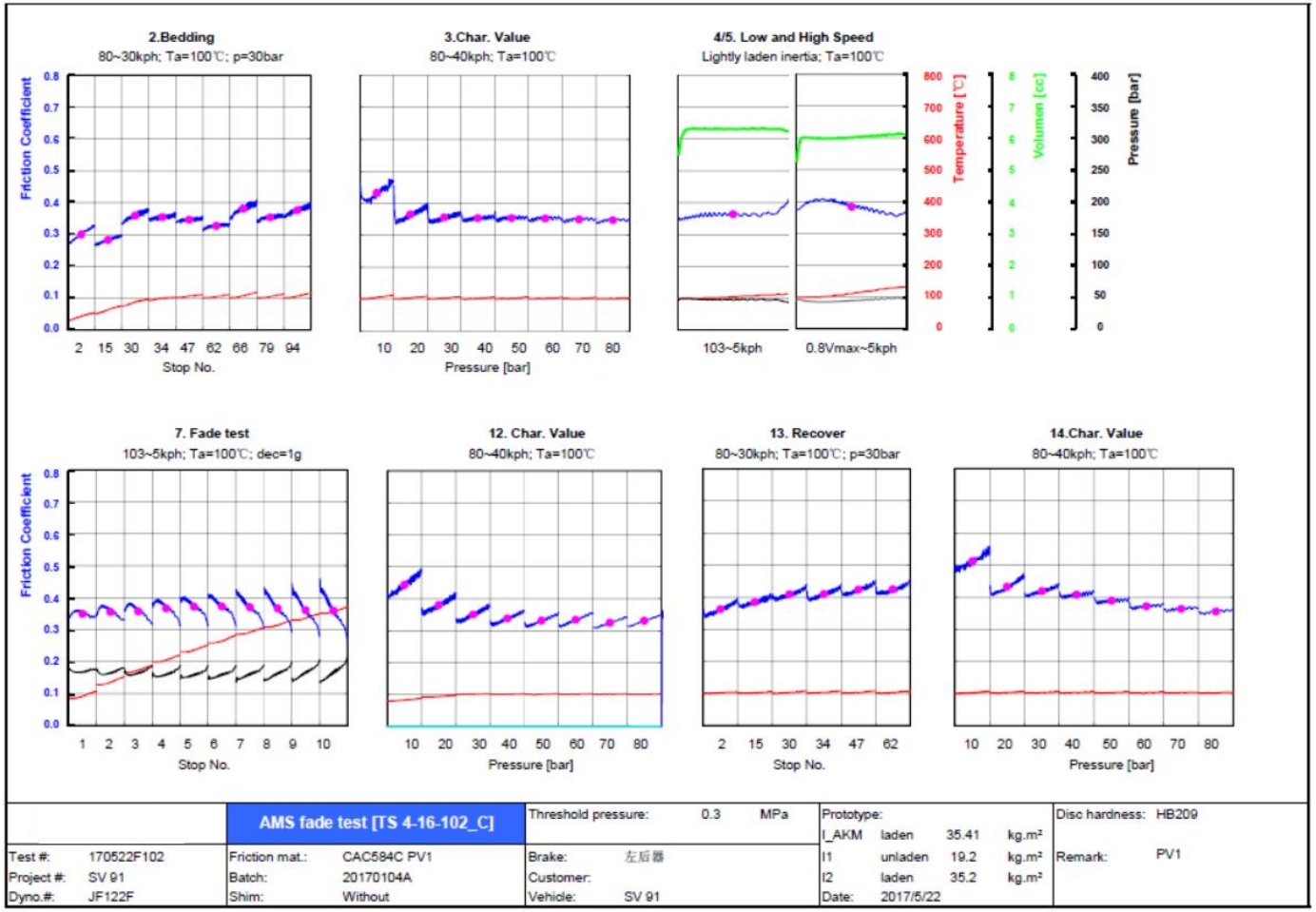

		AMS fade test [TS 4-16-102_C]		Threshold pressure:	0.3	MPa	Prototype:				Disc hardness: HB209
							I_AKM	laden	35.41	kg.m²	
Test #:	170522F102	Friction mat.:	CAC584C PV1	Brake:	左后器		I1	unladen	19.2	kg.m²	Remark: PV1
Project #:	SV 91	Batch:	20170104A	Customer:			I2	laden	35.2	kg.m²	
Dyno.#:	JF122F	Shim:	Without	Vehicle:	SV 91		Date:	2017/5/22			

HFT Performance of material

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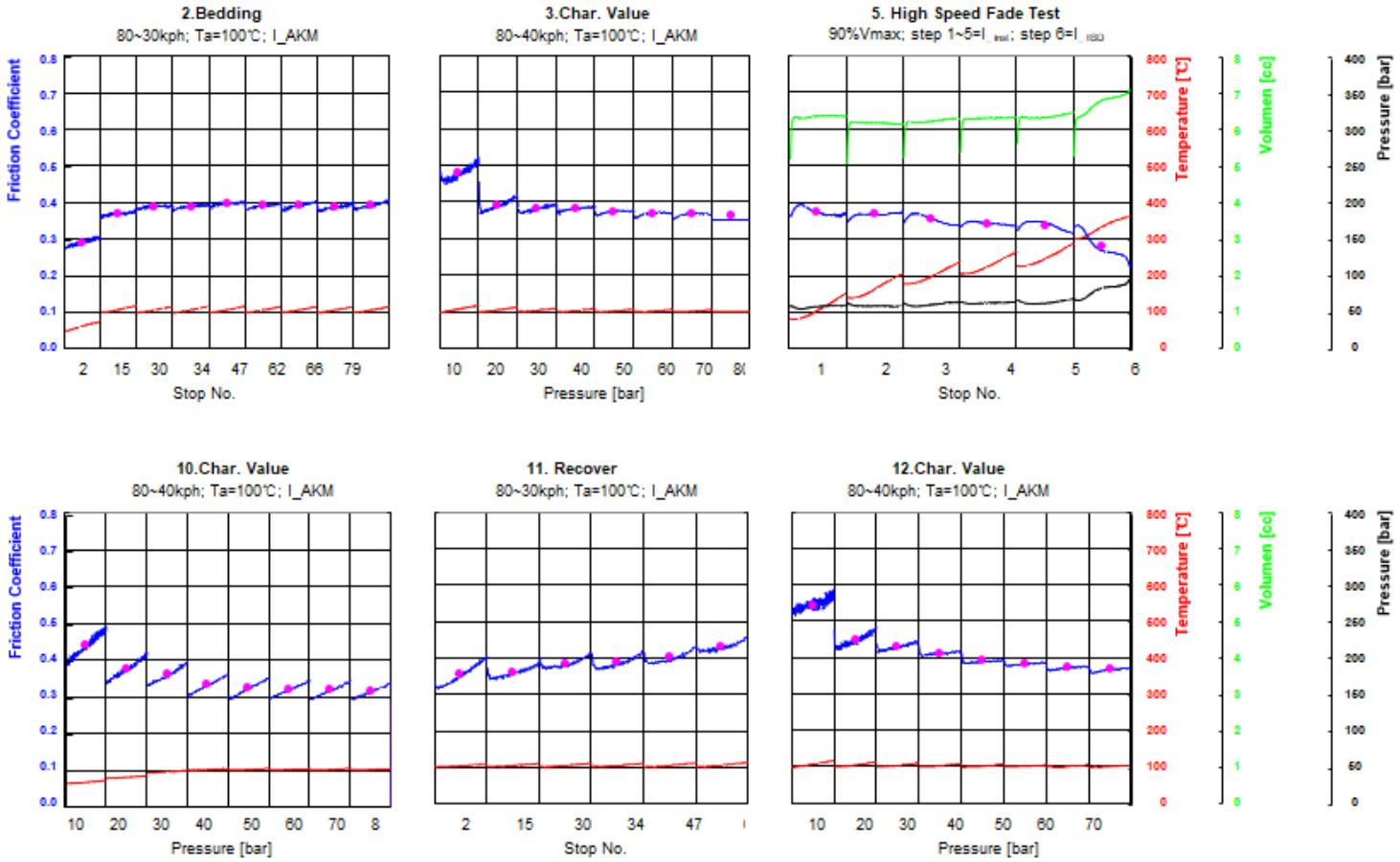

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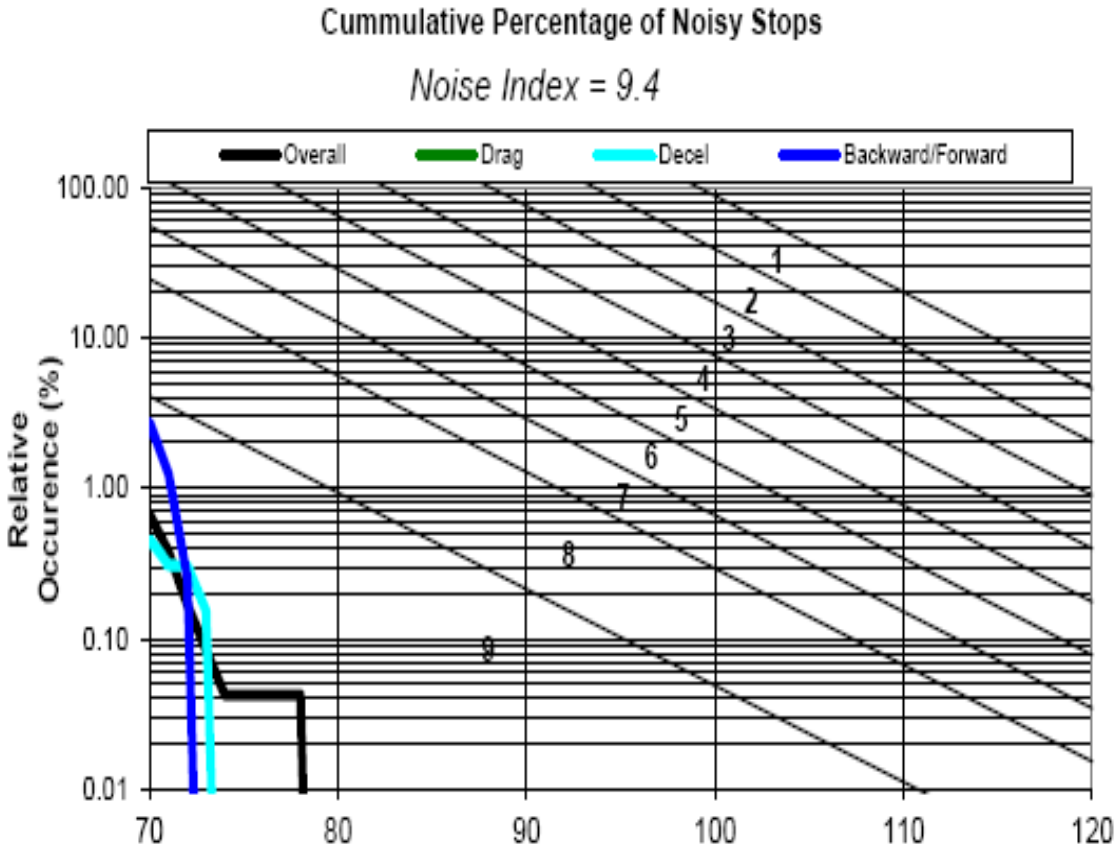
NOISE PERFORMANCE——SAE J2521：

Test platform	GW HAVAL H9
Test code	SAE J2521
Status	Suspension
Pad status	with chamfer and shim
Remarks	Shim material：Trelleborg RGM810541



Noise Performance——SAE J2521：

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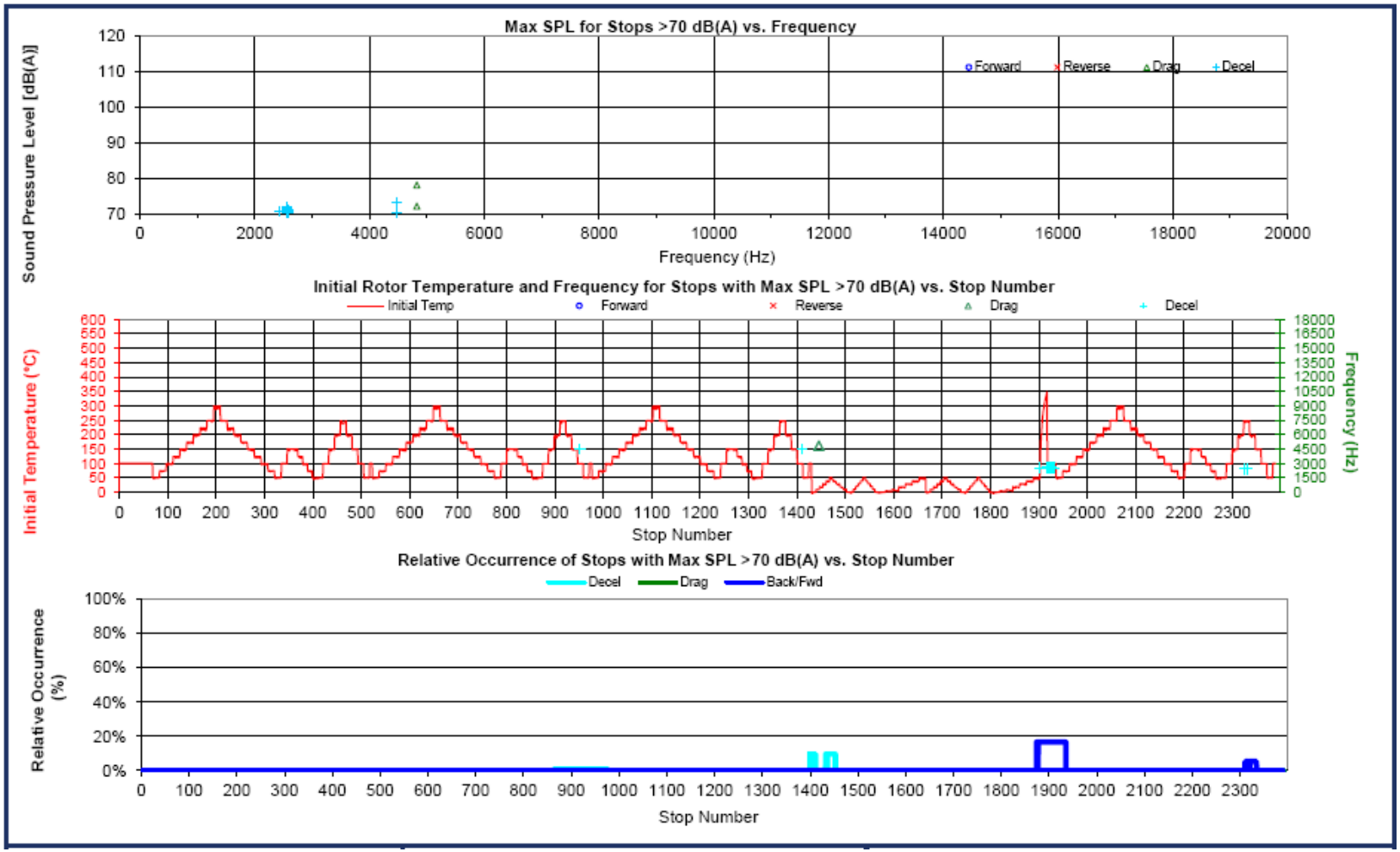

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Kyoto Japan brake pads with low-metal Formula are recommended for OE project , and can be used for passenger car and light-duty SUV cars and so on.

GWM H9

SAIC D90

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Kyoto Japan Tire Group

Kyoto Japan Tire (International) S.A
1 Carrefour de Rive,
1207 Geneva – Switzerland
Tel: (+41.21) 826 11 77 & (+41.22) 789 32 00
Fax: (+41.86) 021 826 11 77

Emails: geneva@kyotojap.com & kyotojapantire@bluewin.ch

Kyoto Japan Tire Corporation Ltd.
Maison Hirakawa, 5-2 Hirakawa-cho 2-chome, Chiyoda-ku,
Tokyo – Japan

www.kyotojap.com