Web: www.chemhelp.com Office (909) 981-5228 FAX (909) 982-3747

September 9th, 2010

AEM Induction Systems 2205 126th Street, Unit A Hawthorne CA, 90250 USA

Attention:

RE: Hyundai Genesis 2.0L I-4 Turbo Configuration: AEM Intake / AEM Exhaust

VEHICLE NOISE TEST REPORT

SAE J1169 / SAE 1492 (Stationary)

Manufacturer: Hyundai Test Date: September 9th, 2010

1. Vehicle type: Coup

Model: Genesis I-4 Turbo Engine: 2.0 L I 4 Cylinder Gasoline

Exhaust System ID: 600-0600

VIN:

Maximum rated RPM: 6,000 Gear used for testing: N

2. Names of persons conducting test:

Instruments: C. Real Driver: C. Real Observer: V. Real

3. Test location:

DPS Technical Inc. 1160 Dewey Way, Suite D, Upland, CA 91786 USA

The test site utilized is a flat level open area paved in asphalt concrete. There are no large sound reflecting surfaces within the required distance. Test site conforms to test protocol.

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4. Environmental Conditions:

Wind speed and ambient noise level measured on the same day as the test and representative of conditions during the test.

Wind speed: Variable, 0-1 MPH Temperature: 67° (F)

Ambient sound level: Less than 55 dBA (S)

5. Description of the sound level meter:

Primary

Type: Larson Davis LxT1 Serial #: 0001009

Calibrated: 4/13/10

Performance Level: ANSI S1.4-1985, S1.43-1997, S1.25 -1991, S1.11-

2004.

IEC61672-2002, 60651-2001, 60804 -2000, 61260-2001, 61252-2002

Calibration verified: 9/9/10 Pre test / Post test

Verification procedure as per DPS Technical Inc. 94 dB / 114 dB @ 1000 Hz.

Additional accuracy verification @ 74, 84, 94, 104, 114 dB, frequency sweep of 125 Hz – 4000 Hz. Maximum observed variation on 9-9-10 .1 dB

Microphone Cartridge Assembly

Primary Type: PCB 377A02 Serial #: 100009

Calibrated: 4/14/10

Windscreen: Bruel & Kjaer # UA 0237 (90mm)

Calibration Note: Sound meter, microphone, preamplifier, extension cable & computer display performance verified as individually as well as an assembly prior to testing and after testing.

6. Description of the external acoustic calibrator:

Primary

Type: Quest Model: CA-15 Multi frequency calibration 110 dB

@ 125,250,500,1000,2000 HZ Serial#: S9100025

Calibrated: 4/14/10

Chris Real, CLS CLS # 31867 8978 292 E-Mail: chrisreal@aol.com

Instruments Calibrated by: Odin Metrology

See attached information.

7. The engine speed indication / tachometer were calibrated and meet the requirements of SAE J1169 and SAE J1492 verification of accuracy was confirmed utilizing DPS Technical calibrated instrumentation. (See Appendix 1, equipment list)

8. Vehicle preparation:

Vehicle tested as delivered. Air cleaner and all body work in place.

The vehicle and each exhaust system was given a minimum of 2 minute warm up exhaust canister temperatures, minimum of 90° F.

The sound measurement microphone was placed in a tripod mounted fixture with the location verified prior to each test.

Reported sound readings are the result of multiple confirmatory sound readings taken within seconds of each other.

Reported sound level measurements dB, A-weighted, sampling rate as specified in test procedure, minimum of 7 samples taken.

Data reported is confirmed accurate without corrections.

9. Measurements

Microphone location was as specified as per section 7.3 of SAE J1169, and Section 6.0 SAE 1492.

The microphone was oriented per manufacturer's instructions. It is a free field microphone.

All measurement procedures were performed exactly as specified in SAE J1169, rev. May 1998., SAE J1492, revised October, 2008.

SAE J1169 DATA SAE J1169

Model: Hyundai

VIN:

Test Date: September 9TH, 2010

Results SAE J1169

** Additionally reported engine speeds for engineering purposes only.

Configuration	Engine Test Speed RPM	Reported Sound Level dBA (S) Left Side	Reported Sound Level dBA (S) Right Side	Ambient Sound Level dBA (S) 55	Temp (°F) 67	Wind (MPH) 0-1
	Idle	69	67.9			
	700 RPM					
	1000	71.9	73			
	1500	73.7	78.4			
	2000	80	80			
	2500	81.1	77.7			
	3000	78.6	79.6			
	3500	78.3	78.1			
	4000	84.2	84.2			
	*4500	86.5	82.3			
	3750	83.4	82.6			
	*75%	85.5	87.5			

Reported sound level as specified by SAE J1169: 84.4 dBA (S) (Section 7.3)

^{**} Additionally reported engine speeds for engineering purposes only.

DATA SAE J 1492

Model: Hyundai

VIN:

Test Date: September 9TH, 2010

Results: SAE 1492

dB A Fast Rev, back to Idle

Configuration	Engine Test Speed RPM	Reported Sound Level dBA (F) Left Side	Reported Sound Level dBA (F) Right Side	Ambient Sound Level dBA (S) 55	Temp (°F) 67	Wind (MPH) 0-1
	Idle	67	67			
	700 RPM					
	1000	71.9	72.9			
	1500	78	81.8			
	2000	78.7	83.1			
	2500	83.5	82.5			
	3000	82.2	85			
	3500	83.2	83			
	4000	87.3	86.1			
	*4500	84.8	85.5			
	3750	86.4	84.7			
	*75%	87.4	84.7			

Reported Sound level as specified by 1492: 87.4 dBA (F) (Section 8.2)

I certify that I have personally conducted the tests described herein, and reviewed the test results, and verify that this report is a true recordation of the results obtained.

Chris Real, CLS

President

DPS Technical, Inc.

Chris Real, CLS CLS # 31867 8978 292 E-Mail: chrisreal@aol.com

Date: September 10, 2010

Appendix I

Instrumentation

Primary Instrumentation

Sound Level Meter

Type: Larson Davis LxT1 Serial #: 0001009 Calibrated: 4/14/10

Performance Level: ANSI S1.4-1985, S1.43-1997, S1.25 -1991, S1.11-2004,

IEC61672-2002, 60651-2001, 60804 -2000, 61260-2001, 61252-2002

Calibration verified: 6/12/08 Pre test / Post test

Verification procedure as per DPS Technical Inc. 94 dB / 114 dB @ 1000 Hz. Additional accuracy verification @ 74, 84, 94, 104, 114 dB, frequency sweep of

250 Hz - 4000 Hz.

Microphone Cartridge Assembly

Primary

Type: PCB 377A02 Serial #: 100009 Calibrated: 4.14/10

Windscreen: Bruel & Kjaer # UA 0237

Primary Calibrator

Type: Quest Model: CA-15 Serial#: S9100025

Calibrated: 4/14/10

Confirming Instrumentation:

Confirming Sound Level Meter:

Type: Bruel & Kjaer 2240 Serial #: 00372538

Calibrated: 9/9/10

Calibration Verified: 9/9/10 Pre test / Post test as per DPS

Technical Inc.

Confirming Calibrator

Model: Bruel & Kjaer 4188 Serial #: 2426961 Calibrated: 9/9/10

Calibration Verified: 9/9/10 Pre test / Post test

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Engine Speed Indicator

Primary:

OBD II Autoxray Ez-scan 4000 DPS ID# 70437

Confirming

Type: Treysit Resonating Reed Tachometer Serial # DPS N4R

Treysit factory calibration checked and certified by the Federal Standards Laboratory, Braunschweig, Germany Tolerance 1-2%.

Factory calibration verified by DPS Technical Inc.

Calibrated: 9/1/10 Confirmed: 9/9/10

Environmental

Air Temperature / Wind Speed

 Type: Extech
 Model: 45158
 Serial #: 08474

 Type: Extech
 Model: 407113
 Serial #: Z186714

Appendix II

Photos

Front Rear





Left Right





VIN Engine

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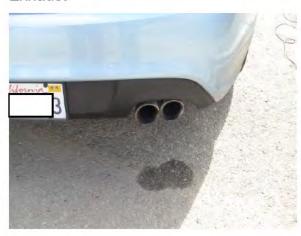


Intake





Exhaust





Test Site / Instruments

Chris Real, CLS CLS # 31867 8978 292 E-Mail: chrisreal@aol.com



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