

**EMISSIONS SUMMARY REPORT**

Vehicle ID: **X5XXX8638 / 000M013** Test ID: **X5XXX8638\_SC032X020819082701 / 1111535733**  
 Test Req: **082012191009-7** Location: **CHRYSLER TECH CENTER**  
 Test Type: **SC03(2X)** Facility: **Test Cell 8** Start Time: **08/27/2019 11:51:39**  
 Requestor: **REDACTED** Shift Sched.: **AUTO** Trace End: **08/27/2019 12:21:23**  
 Driver: **REDACTED** Option(s): **Tailpipe modal & Bag** Inertia Weight: (lbs) **6000**  
 Operator: **REDACTED** Fuel Type: **MS10756** Road Load Coeff A: **13.77**  
 Start Odometer: **70426** Fuel Anal.#: **10762** Road Load Coeff B: **-.0509**  
 AutoLoad File: **None** INCA Project File: **X5XXX3264.exp** Road Load Coeff C: **0.03604**  
 Cell Temp Set Pt (F): **95** Altitude Set Pt(ft.): **930** Hum. Set Pt (Grains): **100.00**  
 Test Segment: **3/3** Vehicle Desc.: **0.00 1500 RAM GRAY** Emissions Standard: **EPA**  
 Test Req. Purpose: **Emissions baseline in as-received condition. Vehicles had AEM installed in field.**  
 Seq. Purpose: **MY15 DS baseline with AEM applied**

Individual Cycles:(Grams/Mile)	Tailpipe:											
	HC	NMHC	CH4	CO	NOX	CO2	NO	NO2	ExVol	MPG	DM	Miles
Cycle1	.2058	.0107	.2533	.2393	.0347	5181.0	.0000	.0000	8.0	1.9637		.004
Cycle2	.0645	.0113	.0620	.1387	.1835	500.9	.1765	.0254	142.2	20.2938		.992
Cycle3	.0319	.0031	.0326	.0267	.1752	517.4	.1536	.0423	63.9	19.6768		.392
Cycle4	.0226	.0043	.0210	.0256	.0529	532.6	.0498	.0074	107.9	19.0873		.756
Cycle5	.0097	.0018	.0104	.0196	.0030	359.8	.0026	.0006	146.4	28.2612		1.210
Cycle6	.0150	.0014	.0202	.0352	.0001	564.3	.0000	.0000	53.8	18.0387		.234

**Modal Test Results:(Grams)**

Phase: 1

IDLE	.0032	.0002	.0041	.0057	.0005	114.0	.0000	.0000	38.8	89.2419		0
ACCEL	.0833	.0136	.0772	.1616	.2756	1145.4	.2629	.0436	274.3	8.8832		0
CRUISE	.0043	.0006	.0050	.0096	.0012	157.9	.0014	.0000	57.1	64.3924		0
DECEL	.0189	.0038	.0223	.0236	.0171	275.7	.0117	.0045	152.1	36.8567		0
CRANK	.0000	.0000	.0000	.0000	.0000	.0	.0000	.0000	.0			0
TOTAL	.1098	.0183	.1086	.2005	.2945	1693.0	.2760	.0481	522.3			0

Phase: 1 Equivalent Mass Results: (Grams/Mile)

	<b>.0306</b>	<b>.0051</b>	<b>.0303</b>	<b>.0559</b>	<b>.0821</b>	<b>471.8</b>	<b>.0769</b>	<b>.0134</b>	<b>522.3</b>	<b>21.5502</b>	<b>0</b>	<b>3.589</b>
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**CVS Mass Results: (Grams/Mile)**

	HC	CO	NOX	NMHC	CO2	CH4	NMHC+NOX	NMOG+NOX	HFID	Vol.MPG
Phase: 1	.03111	.06392	.08891	.01157	466.954	.02546	.1005	.10048	0.03583	21.7801

**Drive Metrics:**

CSI	RMS
4.865	.253

## Emission Summary Report

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**SAE Drive Metrics:**

	<b>CED (J)</b>	<b>CET (J)</b>	<b>ER</b>	<b>DistD (M)</b>	<b>DistT (M)</b>	<b>DistR</b>	<b>EER</b>	<b>ASCR</b>	<b>IWR</b>	<b>RMSSE (MPH)</b>
Phase: 1	4,834,750	4,755,680	1.663	5,774.2	5,760.9	0.232	1.407	1.462	1.632	0.4242

**Test Validation:** Valid:    Invalid:    Retest:    Accept:    NIC: system    Date: 08/27/2019 12:35:43

Validator's Comments:

**Test Options:**

<b>Option</b>	<b>Description</b>
DHFID Hangup value	.012
Gain	.650
Initial Solar Intensity (in KW/Square meter)	.843
Constant Grade	.000
Diesel Regeneration Required	0
Average Solar Intensity (in KW/Square meter)	.843
MINI DILUTER T/P DILUTION RATIO	9.080
Tailpipe Methane Response Factor	1.066
DHFID Methane Response Factor	1.083
Bag Methane Response Factor	1.101
Soak Duration(Hrs)	18
Threshold	350
CVS K Coeff	638.530
Solar Intensity (in percent)	84.000
Trace Start Method	Crank (Pendant)
Charging Type	CS
Pre Test Vehicle Temperature	Hot
Actual Driver	Human
Solar Profile Name	JA_850
CVS Venturi Selection	Medium
DynoGrade Type	None
Special Test Qualifications	None
OBD II Monitor	None Requested
Abort test on dead battery	Y
Abort Test on INCA Failure	Y
Augmented Braking	Y
Diesel Test	Y

## Test Options

## Emission Summary Report

Hybrid Test	Y
Inca Requirement	Y
Mule Vehicle to Park	Y
Road (Var.) Speed Fan required	Y
Rolls Requirement	Y
SAE Calculations Required	Y
Solar Required	Y
Weighted Dilution factor	28.570

### Sequence Purpose

MY15 DS baseline with AEM applied

### Engr. SpclInst

DiagRA data needs taken before and after each sequence

### Req Spcl Inst

With the vehicle on, close all windows 1) For automatic systems press the Auto button and set temp to 72F( 22 C). \*\* a) Do not depress any other buttons on HVAC 2) For Manual systems \*\* a) Turn AC on \*\*

b) Set AC max \*\* c) Set system to recirculate \*\* d) Set fan speed to highest setting \*\* e) Set temperature to coldest setting

Connect DCAN Cable – Automatically setting ROLLS MODE!

### Shift Comments

D| Dual Exhaust

### Sampling Type List

None -- None -- DCVS , Diesel Tailpipe / Particulates – Multiple

### Test Request Purpose

Emissions baseline in as-received condition. Vehicles had AEM installed in field.

### Informational Report Comments

SolInit – Solar simulator is in manual mode. Please place in remote mode.

ProcLnch – Initialization failure for INCA! Retry?

SolStop – Do you want to keep the solar lights on?

**The results in this report relate only to this specific test.**