

**EMISSIONS SUMMARY REPORT**

Vehicle ID:	<b>X6XXX8088 / 045M712</b>	Test ID:	<b>X6XXX8088_US2XSP020719060601 / 1111011466</b>
Test Req:	<b>082012190660-6</b>	Location:	CHRYSLER TECH CENTER
Test Type:	<b>US06(2X) – using Split Bag US06</b>	Facility:	<b>Test Cell 7</b>
Requestor:	<b>REDACTED</b>	Shift Sched.:	AUTO
Driver:	<b>REDACTED</b>	Option(s):	Tailpipe modal & Bag
Operator:	<b>REDACTED</b>	Fuel Type:	MS10756
Start Odometer:	80091	Fuel Anal.#:	10762
AutoLoad File:	None	INCA Project File:	X6XXX8088_WorkSpace.exp
Cell Temp Set Pt:	75	Altitude Set Pt(ft.):	930
Test Segment:	3/3	Vehicle Desc.:	0.00 1500 RAM WHITE
		Start Time:	<b>06/06/2019 10:28:27</b>
		Trace End:	<b>06/06/2019 10:49:59</b>
		Inertia Weight:	6500
		Road Load Coeff A:	14.90
		Road Load Coeff B:	.1843
		Road Load Coeff C:	0.03434
		Hum. Set Pt (Grains):	50.00
		Emissions Standard:	Fed. BIN 5

Test Req. Purpose: Emissions baseline after application of AEM and 1000miles accumulated on MA.

Seq. Purpose: MY16 DS Baseline with AEM applied

	<b>Individual Cycles:(Grams/Mile)</b>										<b>Tailpipe:</b>	
	HC	NMHC	CH4	CO	NOX	CO2	NO	NO2	ExVol	MPG	DM	Miles
Cycle1	.0114	.0049	.0081	.0157	.1996	678.5	.1761	.0439	55.5	14.9850		.264
Cycle2	.0064	.0033	.0040	.0109	.3465	549.2	.3360	.0377	151.9	18.5340		1.017
Cycle3	.0050	.0024	.0032	.0084	.1545	413.0	.1465	.0243	611.0	24.6369		6.234
Cycle4	.0207	.0093	.0132	.0108	.5822	882.7	.5002	.1217	99.0	11.5231		.273
Cycle5	.0239	.0165	.0078	.0157	2.3114	926.1	2.1946	.4225	66.5	10.9877		.225

**Modal Test Results:(Grams)**

Phase: 1												
IDLE	.0010	.0004	.0007	.0006	.0011	23.9	.0009	.0000	13.0	.1279		0
ACCEL	.0109	.0068	.0052	.0173	.9594	1030.6	.9534	.1197	230.3	7.6563		0
DECEL	.0087	.0036	.0057	.0039	.1223	131.8	.0631	.0583	129.7	77.6611		0
TOTAL	.0206	.0108	.0116	.0218	1.0828	1186.2	1.0174	.1780	373.0			0
Phase: 1	<u>Equivalent Mass Results: (Grams/Mile)</u>											
	<b>.0116</b>	<b>.0061</b>	<b>.0065</b>	<b>.0122</b>	<b>.6090</b>	<b>667.2</b>	<b>.5722</b>	<b>.1001</b>	<b>373.0</b>	<b>15.2549</b>	<b>0</b>	<b>1.778</b>
Phase: 2												
IDLE	.0002	.0001	.0002	.0001	.0001	5.2	.0000	.0000	2.7	.0000		0
ACCEL	.0135	.0073	.0078	.0244	.7187	1202.4	.6791	.1245	268.1	16.0492		0
CRUISE	.0112	.0049	.0080	.0214	.2026	1107.5	.1987	.0200	242.7	28.1078		0
DECEL	.0063	.0027	.0042	.0062	.0416	259.5	.0357	.0071	97.4	50.3714		0
TOTAL	.0312	.0150	.0201	.0521	.9630	2574.6	.9135	.1516	611.0			0
Phase: 2	<u>Equivalent Mass Results: (Grams/Mile)</u>											
	<b>.0050</b>	<b>.0024</b>	<b>.0032</b>	<b>.0084</b>	<b>.1545</b>	<b>413.0</b>	<b>.1465</b>	<b>.0243</b>	<b>611.0</b>	<b>24.6369</b>	<b>0</b>	<b>6.234</b>
Phase: 1A												
IDLE	.0004	.0001	.0003	.0003	.0001	10.7			5.3	.0000		0
ACCEL	.0051	.0031	.0029	.0124	.3883	653.1			136.9	8.7643		0
DECEL	.0041	.0014	.0030	.0026	.0164	73.7			65.3	98.7762		0
TOTAL	.0096	.0046	.0062	.0153	.4049	737.5			207.5			0
Phase: 1A	<u>Equivalent Mass Results: (Grams/Mile)</u>											

**Modal Test Results**  
 Phase: 1B  
 IDLE .0006 .0003 .0004 .0003 .0010 13.2 7.7 .2321 0  
 ACCEL .0058 .0037 .0023 .0048 .5711 377.5 93.4 5.7293 0  
 DECEL .0046 .0022 .0027 .0014 .1058 58.1 64.4 49.8691 0  
 TOTAL .0110 .0062 .0053 .0065 .6779 448.7 165.6 0  
 Phase: 1B Equivalent Mass Results:(Grams/Mile)  
**.0222 .0125 .0107 .0130 1.3631 902.3 165.6 11.2803 0 .497**  
**Total Equivalent Mass Results:(Grams/Mile)**  
**.0065 .0032 .0040 .0092 .2553 469.4 .2410 .0411 984.0 21.6952 0 8.012**

**CVS Mass Results: (Grams/Mile)**  
**HC CO NOX CO2 NMHC CH4 NMHC+NOX NMOG+NOX HFID Vol.MPG**  
 Phase: 1 .00527 .00308 .64603 716.758 .00000 .00156 .6460 .64603 0.00080 14.1922  
 Phase: 2 .00071 .00018 .15876 403.965 .00000 .00125 .1588 .15876 0.00110 25.1875  
**CVS Total Mass Results:(Grams/Mile)**  
**.00172 .00082 .26689 473.380 .00000 .00132 .2669 .26689 .00103 21.5132**

**Drive Metrics:**  
**CSI RMS**  
 -20.504 .408

**SAE Drive Metrics:**  
**CED (J) CET (J) ER DistD (M) DistT (M) DistR EER ASCR IWR RMSSE (MPH)**  
 Phase: 1 4,902,040 4,923,960 -0.445 2,861.8 2,852.2 0.335 -0.784 -0.594 -0.803 0.6943  
 Phase: 2 11,026,400 11,250,500 -1.992 10,031.7 10,035.9 -0.042 -1.989 -10.762 -14.311 0.5028  
**Final:**  
**15,928,500 16,174,500 -1.521 12,893.5 12,888.1 0.042 -1.587 -3.817 -7.380 0.5855**

**Test Validation:** Valid: Invalid: Retest: Accept: NIC: system Date: 06/06/2019 11:10:50  
 Validator's Comments:

**Test Options:**  
**Option Description**  
 Induced Failure  
 DHFID Hangup value .005  
 Gain .650

## Test Options

## Emission Summary Report

Constant Grade	.000
Diesel Regeneration Required	0
MINI DILUTER T/P DILUTION RATIO	8.670
Weighted Dilution factor	12.370
Tailpipe Methane Response Factor	1.056
Bag Methane Response Factor	1.081
DHFID Methane Response Factor	1.113
Soak Duration(Hrs)	24
Threshold	350
CVS K Coeff	539.114
Charging Type	CS
Template Emissions CAT	EPA
Trace Start Method	Flying
Pre Test Vehicle Temperature	Hot
Actual Driver	Human
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
Hybrid Test	Y
Inca Requirement	Y
Mule Vehicle to Park	Y
Road (Var.) Speed Fan required	Y
Rolls Requirement	Y
SAE Calculations Required	Y
Wrap Cursor	Y

### Sequence Purpose

MY16 DS Baseline with AEM applied

### Req Spcl Inst

Use 8 ft exhaust pipe and Extra cooling.

Connect DCAN Cable – Automatically setting ROLLS MODE!

### Shift Comments

D| Dual Exhaust

### Sampling Type List

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

### Test Request Purpose

Emissions baseline after application of AEM and 1000miles accumulated on MA.

Test Comments

Emission Summary Report

**Informational Report Comments**

ProcLnch – Initialization failure for INCA! Retry?