

**EMISSIONS SUMMARY REPORT**

Vehicle ID:	<b>T6305PV196 / HAC7960</b>	Test ID:	<b>T6305PV196_US2XSP020823082301 / 1111549455</b>		
Test Req:	<b>082012230992-6</b>	Location:	CHRYSLER TECH CENTER		
Test Type:	<b>US06(2X) - using Split Bag US06</b>	Facility:	<b>Test Cell 8</b>	Start Time:	<b>08/23/2023 12:01:37</b>
Requestor:	<b>REDACTED</b>	Shift Sched.:	AUTO	Trace End:	<b>08/23/2023 12:23:08</b>
Driver:	<b>REDACTED</b>	Option(s):	Tailpipe modal & Bag	Inertia Weight: (lbs)	5500.0
Operator:	<b>REDACTED</b>	Fuel Type:	MS10756	Road Load Coeff A:	20.44
Start Odometer:	110114	Fuel Anal.#:	11022	Road Load Coeff B:	.0563
AutoLoad File:	None	INCA Project File:	REDACTE_16MY_WK_4WD_Diesel.exp	Road Load Coeff C:	0.03053
Cell Temp Set Pt (F):	75	Altitude Set Pt(ft.):	930	Hum. Set Pt (Grains):	50.00
Test Segment:	3/3	Vehicle Desc.:	0.00 JEEP Granite Cr	Emissions Standard:	EPA
Test Req. Purpose:	T6305PV196 - REDACTE- IUVT Consent Decree Witness Testing 16MY 3.0L DSL WK (RL, PREP, FTP75, HFET, US06)				
Seq. Purpose:	US06 Emissions				

	Individual Cycles:(Grams/Mile)								Tailpipe:			
	HC	NMHC	CH4	CO	NOX	CO2	NO	NO2	ExVol	MPG	DM	Miles
Cycle1	.0027	.0005	.0068	.0003	.0702	583.9	.0561	.0209	48.9	17.4241		.267
Cycle2	.0024	.0013	.0025	.0001	.0944	465.2	.0903	.0139	132.2	21.8832		1.020
Cycle3	.0015	.0010	.0012	.0000	.0692	363.7	.0656	.0109	562.9	27.9551		6.237
Cycle4	.0088	.0032	.0102	.0003	.3798	809.2	.3165	.1086	79.5	12.5778		.277
Cycle5	.0068	.0037	.0053	.0006	.8324	822.5	.8047	.1551	52.7	12.3640		.224

Modal Test Results:(Grams)												
Phase: 1												
IDLE	.0004	.0001	.0005	.0002	.0004	22.2	.0000	.0000	11.8	.4133		0
ACCEL	.0039	.0019	.0045	.0001	.3368	874.9	.3422	.0493	188.0	9.0450		0
DECEL	.0028	.0011	.0033	.0001	.0698	142.1	.0331	.0354	113.6	72.1641		0
TOTAL	.0071	.0031	.0084	.0004	.4070	1039.2	.3753	.0847	313.3			0
Phase: 1	<u>Equivalent Mass Results: (Grams/Mile)</u>											
	<b>.0040</b>	<b>.0018</b>	<b>.0047</b>	<b>.0002</b>	<b>.2276</b>	<b>581.1</b>	<b>.2098</b>	<b>.0474</b>	<b>313.3</b>	<b>17.5139</b>	<b>0</b>	<b>1.788</b>
Phase: 2												
IDLE	.0001	.0000	.0001	.0000	.0000	4.9	.0000	.0000	2.5	.2088		0
ACCEL	.0034	.0025	.0021	.0000	.2464	1018.2	.2353	.0401	218.4	18.9845		0
CRUISE	.0040	.0028	.0027	.0000	.1547	1007.7	.1490	.0214	243.4	30.8355		0
DECEL	.0019	.0008	.0024	.0001	.0303	238.0	.0246	.0062	98.7	55.0035		0
TOTAL	.0094	.0061	.0073	.0001	.4314	2268.8	.4089	.0677	562.9			0
Phase: 2	<u>Equivalent Mass Results: (Grams/Mile)</u>											
	<b>.0015</b>	<b>.0010</b>	<b>.0012</b>	<b>.0000</b>	<b>.0692</b>	<b>363.7</b>	<b>.0656</b>	<b>.0109</b>	<b>562.9</b>	<b>27.9551</b>	<b>0</b>	<b>6.237</b>
Phase: 1A												
IDLE	.0001	.0000	.0002	.0000	.0001	9.8			4.7			0
ACCEL	.0016	.0009	.0022	.0000	.1092	539.8			112.2	10.6664		0
DECEL	.0014	.0005	.0019	.0001	.0058	80.9			64.2	90.8504		0

Modal Test Results										
Phase: 1A	.0014	.0044	.0001	.1151	630.5		181.2			0
<u>Equivalent Mass Results: (Grams/Mile)</u>										
	<b>.0024</b>	<b>.0011</b>	<b>.0034</b>	<b>.0001</b>	<b>.0894</b>	<b>489.8</b>	<b>181.2</b>	<b>20.7667</b>	<b>0</b>	<b>1.287</b>
Phase: 1B										
IDLE	.0003	.0001	.0003	.0001	.0003	12.3	7.0	.7435		0
ACCEL	.0023	.0010	.0023	.0001	.2276	335.2	75.8	6.4443		0
DECEL	.0014	.0006	.0014	.0000	.0641	61.3	49.4	47.9956		0
TOTAL	.0040	.0017	.0040	.0002	.2919	408.7	132.2			0
<u>Equivalent Mass Results: (Grams/Mile)</u>										
	<b>.0079</b>	<b>.0034</b>	<b>.0080</b>	<b>.0004</b>	<b>.5822</b>	<b>815.2</b>	<b>132.2</b>	<b>12.4853</b>	<b>0</b>	<b>.501</b>
<b>Total Equivalent Mass Results:(Grams/Mile)</b>										
	<b>.0021</b>	<b>.0011</b>	<b>.0020</b>	<b>.0001</b>	<b>.1045</b>	<b>412.2</b>	<b>.0977</b>	<b>.0190</b>	<b>876.3</b>	<b>24.6982</b>
									<b>0</b>	<b>8.026</b>

**CVS Mass Results: (Grams/Mile)**

	HC	CO	NOX	NMHC	CO2	CH4	NMHC+NOX	NMOG+NOX	HFID	Vol.MPG
Phase: 1	.00389	.00000	.24534	.00000	628.884	.00313	.2453	.2453	0.00000	16.1778
Phase: 2	.00028	.00000	.06892	.00000	369.558	.00027	.0689	.0689	0.00000	27.5022
<b>CVS Total Mass Results:(Grams/Mile)</b>										
	<b>.00108</b>	<b>.00000</b>	<b>.10824</b>	<b>.00000</b>	<b>427.347</b>	<b>.00091</b>	<b>.1082</b>	<b>.1082</b>	<b>.00000</b>	<b>23.8310</b>

**Drive Metrics:**

CSI	RMS
-10.639	.371

**SAE Drive Metrics:**

	CED (J)	CET (J)	ER	DistD (M)	DistT (M)	DistR	EER	ASCR	IWR	RMSSE (MPH)
Phase: 1	4,220,420	4,264,700	-1.038	2,877.8	2,852.2	0.899	-1.958	-1.937	-2.249	0.7084
Phase: 2	9,943,260	10,128,500	-1.829	10,038.3	10,035.8	0.025	-1.888	-7.078	-9.302	0.3764
<b>Final:</b>	<b>14,163,700</b>	<b>14,393,200</b>	<b>-1.594</b>	<b>12,916.1</b>	<b>12,887.9</b>	<b>0.219</b>	<b>-1.842</b>	<b>-3.565</b>	<b>-5.681</b>	<b>0.5320</b>

**Test Validation:** Valid: Invalid: Retest: Accept: NIC: system / mh1294 Date: 08/23/2023 15:39:10

Validator's Comments: THIS TEST PASSED ALL VALIDITY CHECKS

## Test Validation

### Test Options:

Option	Description
Gain	.650
Constant Grade	.000
Diesel Regeneration Required	0
Background Particles for PN	.000
Background Particulates (PM)	.003
MINI DILUTER T/P DILUTION RATIO	9.970
DHFID Hangup value	.000
Tailpipe Methane Response Factor	1.066
Bag Methane Response Factor	1.088
DHFID Methane Response Factor	1.089
Soak Duration(Hrs)	24
Threshold	350
CVS K Coeff	638.530
Charging Type	CS
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
Cert Mode	Y
Road (Var.) Speed Fan required	Y
Rolls Requirement	Y
Wrap Cursor	Y
Diesel Test	Y
Augmented Braking	Y
Inca Requirement	Y
Abort Test on INCA Failure	Y
Abort test on dead battery	Y
Hybrid Test	Y
Mule Vehicle to Park	Y
SAE Calculations Required	Y
Check Soak Time	Y
Weighted Dilution factor	15.740

**Sequence Purpose**

US06 Emissions

**Engr. SpclInst**

Engineer needs to collect Diagra Data at the end of drive cycle.

**Req Spcl Inst**

Use 8 ft exhaust pipe and Extra cooling.

**System Comments**

08/23/2023 12:28:40: Current filter for the tailpipe bench is #2. Filter swap strategy: swap

**Sampling Type List**

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

**Test Request Purpose**

T6305PV196 - <sup>REDACTE</sup> - IUVT Consent Decree Witness Testing 16MY 3.0L DSL WK (RL, PREP, FTP75, HFET, US06)

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