## EMISSIONS SUMMARY REPORT

| | | | | | |
|---|---|---|---|---|---|
| Vehicle ID: | **T6305PV195 / XXX** | Test ID: | **T6305PV195_US2XSP020823032201 / 1111548317** | | |
| Test Req: | **082012230269−6** | Location: | CHRYSLER TECH CENTER | | |
| Test Type: | **US06(2X) − using Split Bag US06** | Facility: | **Test Cell 8** | Start Time: | **03/22/2023 11:34:29** |
| Requestor: | **REDACTED** | Shift Sched.: | AUTO | Trace End: | **03/22/2023 11:56:00** |
| Driver: | **REDACTED** | Option(s): | Tailpipe modal &Bag | Inertia Weight: (lbs) | 6000 |
| Operator: | **REDACTED** | Fuel Type: | MS10756 | Road Load Coeff A: | 14.36 |
| Start Odometer: | 103698 | Fuel Anal.#: | 11022 | Road Load Coeff B: | .1539 |
| AutoLoad File: | None | INCA Project File: | 16MY_DS_30L_DSL[REDACTED].exp | Road Load Coeff C: | 0.03438 |
| 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 1500 RAM SILVER MET | Emissions Standard: | EPA |
| Test Req. Purpose: | T6305PV195 − [REDACTED] − IUVT Consent Decree Witness Testing 16MY 3.0L DSL DS (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 | .0138 | .0063 | .0120 | .0016 | .1547 | 621.8 | .1383 | .0300 | 52.2 | 16.3587 | | .267 |
| Cycle2 | .0059 | .0032 | .0039 | .0006 | .2571 | 492.0 | .2532 | .0270 | 140.6 | 20.6818 | | 1.017 |
| Cycle3 | .0038 | .0021 | .0026 | .0005 | .1201 | 384.9 | .1159 | .0158 | 576.1 | 26.4298 | | 6.235 |
| Cycle4 | .0161 | .0086 | .0113 | .0022 | .4730 | 858.3 | .4139 | .0985 | 90.3 | 11.8592 | | .274 |
| Cycle5 | .0159 | .0086 | .0098 | .0015 | 1.4217 | 847.6 | 1.3673 | .2203 | 60.2 | 11.9991 | | .226 |

**Modal Test Results:(Grams)**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase: 1 | | | | | | | | | | | | |
| IDLE | .0009 | .0003 | .0007 | .0003 | .0009 | 28.2 | .0007 | .0000 | 14.0 | .1806 | 0 | |
| ACCEL | .0108 | .0060 | .0069 | .0007 | .6678 | 931.7 | .6693 | .0740 | 204.0 | 8.4234 | 0 | |
| DECEL | .0060 | .0030 | .0048 | .0009 | .0856 | 133.3 | .0474 | .0383 | 125.3 | 77.0785 | 0 | |
| TOTAL | .0176 | .0093 | .0125 | .0020 | .7543 | 1093.2 | .7174 | .1123 | 343.3 | | 0 | |
| Phase: 1 | Equivalent Mass Results: (Grams/Mile) | | | | | | | | | | | |
| | **.0099** | **.0052** | **.0070** | **.0011** | **.4228** | **612.8** | **.4022** | **.0630** | **343.3** | **16.5992** | **0** | **1.784** |
| Phase: 2 | | | | | | | | | | | | |
| IDLE | .0002 | .0000 | .0002 | .0001 | .0001 | 6.2 | .0000 | .0000 | 3.0 | .1639 | 0 | |
| ACCEL | .0088 | .0049 | .0059 | .0009 | .5093 | 1086.8 | .4888 | .0738 | 239.6 | 17.7894 | 0 | |
| CRUISE | .0102 | .0059 | .0068 | .0013 | .1989 | 1060.3 | .1973 | .0188 | 236.6 | 29.3243 | 0 | |
| DECEL | .0043 | .0020 | .0035 | .0011 | .0403 | 246.3 | .0366 | .0056 | 96.9 | 52.9965 | 0 | |
| TOTAL | .0236 | .0128 | .0165 | .0033 | .7485 | 2399.5 | .7227 | .0982 | 576.1 | | 0 | |
| Phase: 2 | Equivalent Mass Results: (Grams/Mile) | | | | | | | | | | | |
| | **.0038** | **.0021** | **.0026** | **.0005** | **.1201** | **384.9** | **.1159** | **.0158** | **576.1** | **26.4298** | **0** | **6.235** |
| Phase: 1A | | | | | | | | | | | | |
| IDLE | .0003 | .0001 | .0003 | .0001 | .0001 | 12.1 | | | 5.6 | | 0 | |
| ACCEL | .0062 | .0034 | .0044 | .0004 | .2871 | 575.6 | | | 121.4 | 9.9080 | 0 | |
| DECEL | .0031 | .0015 | .0025 | .0006 | .0155 | 78.3 | | | 65.9 | 94.2095 | 0 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL | .0096 | .0050 | .0072 | .0011 | .3026 | 666.0 | | | 192.8 | | 0 | |

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

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **.0075** | **.0039** | **.0056** | **.0008** | **.2358** | **519.0** | | | **192.8** | **19.6056** | **0** | **1.283** |

Phase: 1B

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDLE | .0005 | .0002 | .0004 | .0002 | .0008 | 16.0 | | | 8.4 | .3172 | 0 | |
| ACCEL | .0045 | .0026 | .0025 | .0003 | .3807 | 356.1 | | | 82.6 | 6.0281 | 0 | |
| DECEL | .0029 | .0015 | .0024 | .0004 | .0701 | 55.0 | | | 59.4 | 53.5480 | 0 | |
| TOTAL | .0080 | .0043 | .0053 | .0009 | .4516 | 427.2 | | | 150.5 | | 0 | |

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

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **.0160** | **.0086** | **.0106** | **.0019** | **.9023** | **853.5** | | | **150.5** | **11.9287** | **0** | **.501** |

**Total Equivalent Mass Results:(Grams/Mile)**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **.0051** | **.0028** | **.0036** | **.0007** | **.1874** | **435.6** | **.1796** | **.0263** | **919.4** | **23.3382** | **0** | **8.019** |

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

| | **HC** | **CO** | **NOX** | **NMHC** | **CO2** | **CH4** | **NMHC+NOX** | **NMOG+NOX** | **HFID** | **Vol.MPG** |
|---|---|---|---|---|---|---|---|---|---|---|
| Phase: 1 | .00849 | .00000 | .47121 | .00041 | 675.110 | .00398 | .4716 | .4716 | 0.00420 | 15.0750 |
| Phase: 2 | .00166 | .00000 | .13042 | .00050 | 390.205 | .00107 | .1309 | .1309 | 0.00152 | 26.0914 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **.00318** | **.00000** | **.20624** | **.00048** | **453.588** | **.00172** | **.2067** | **.2067** | **.00212** | **22.4134** |

**Drive Metrics:**

| **CSI** | **RMS** |
|---|---|
| −19.057 | .365 |

**SAE Drive Metrics:**

| | **CED (J)** | **CET (J)** | **ER** | **DistD (M)** | **DistT (M)** | **DistR** | **EER** | **ASCR** | **IWR** | **RMSSE (MPH)** |
|---|---|---|---|---|---|---|---|---|---|---|
| Phase: 1 | 4,538,270 | 4,604,900 | −1.447 | 2,870.3 | 2,852.1 | 0.638 | −2.115 | −1.220 | −1.295 | 0.6703 |
| Phase: 2 | 10,684,300 | 10,946,800 | −2.398 | 10,033.8 | 10,035.6 | −0.017 | −2.439 | −11.074 | −14.573 | 0.3978 |
| **Final:** | | | | | | | | | | |
| | **15,222,500** | **15,551,700** | **−2.116** | **12,904.1** | **12,887.7** | **0.128** | **−2.293** | **−4.342** | **−7.758** | **0.5220** |

**Test Validation:** Valid: Invalid: Retest: Accept: NIC: system / mh1294 Date: 03/23/2023 12:22:38

Validator's Comments: THIS TEST PASSED ALL VALIDITY CHECKS

**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 | 9.990 |
| DHFID Hangup value | .000 |
| Tailpipe Methane Response Factor | 1.066 |
| DHFID Methane Response Factor | 1.089 |
| Bag Methane Response Factor | 1.103 |
| 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 |
| Weighted Dilution factor | 14.810 |

**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.
Connect DCAN Cable − Automatically setting ROLLS MODE!
**Sampling Type List**
None −− None −− DCVS , Diesel Tailpipe / Particulates − Single
**Test Request Purpose**
T6305PV195 − REDACTED – IUVT Consent Decree Witness Testing 16MY 3.0L DSL DS (RL, PREP, FTP75, HFET, US06)
**Informational Report Comments**
ProcLnch − Initialization failure for INCA! Retry?

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