

EMISSIONS SUMMARY REPORT

Vehicle ID: **T5305PV63 / FCY9757** Test ID: **T5305PV63_EPA75_011620022101 / 578862655**
 Test Req: **082011200298-5** Location: **CHELSEA PROVING GROUNDS (Chrysler LLC)**
 Test Type: **EPA75** Facility: **Test Cell 16** Start Time: **02/21/2020 08:20:42**
 Requestor: **REDACTED** Shift Sched.: **AUTO** Trace End: **02/21/2020 09:01:14**
 Driver: **REDACTED** Option(s): **Tailpipe modal & Bag** Inertia Weight: (lbs) **5500**
 Operator: **REDACTED** Fuel Type: **MS10756** Road Load Coeff A: **21.54**
 Start Odometer: **69602** Fuel Anal.#: **10854** Road Load Coeff B: **.1523**
 AutoLoad File: **None** INCA Project File: **null** Road Load Coeff C: **0.02822**
 Cell Temp Set Pt: **75** Altitude Set Pt(ft.): **0** Hum. Set Pt (Grains): **50.00**
 Test Segment: **1/1** Vehicle Desc.: **0.00 WKJT74 Brilliant** Emissions Standard: **EPA**
 Test Req. Purpose: **15MY-T03.05PV CERT - IUVT Consent Decree (RL, Prep, EPA75, HWY, US06) 3.0L WK A8 - Fed - MS10756 - BIN5**
 Seq. Purpose: **IUVP - EPA75**

| | Individual Cycles:(Grams/Mile) | | | | | | | | | | | Tailpipe: | |
|---------|--------------------------------|-------|-------|--------|-------|-------|-------|-------|-------|---------|----|-----------|--|
| | HC | NMHC | CH4 | CO | NOX | CO2 | NO | NO2 | ExVol | MPG | DM | Miles | |
| Time-63 | .2145 | .0000 | .0000 | 9.3704 | .3632 | 691.3 | .0000 | .3632 | 42.5 | 14.4051 | | .207 | |
| Cycle1 | .4874 | .0000 | .0000 | 6.8492 | .2500 | 535.7 | .0000 | .2500 | 91.4 | 18.5586 | | .671 | |
| Cycle2 | .1180 | .0000 | .0000 | .0503 | .1341 | 399.9 | .0000 | .1341 | 169.1 | 25.4108 | | 1.962 | |
| Cycle11 | .0866 | .0000 | .0000 | .0134 | .0005 | 293.0 | .0000 | .0005 | 119.9 | 34.6952 | | 1.362 | |
| Cycle19 | .1935 | .0000 | .0000 | .4168 | .0039 | 376.2 | .0000 | .0039 | 66.0 | 26.9721 | | .674 | |

Modal Test Results:(Grams)

Phase: 1

| | | | | | | | | | | | | |
|--------|-------|-------|-------|--------|-------|--------|-------|-------|-------|----------|--|---|
| IDLE | .0373 | .0000 | .0000 | .1894 | .0176 | 65.0 | .0000 | .0176 | 31.9 | 155.5557 | | 0 |
| ACCEL | .1221 | .0000 | .0000 | 1.1464 | .2167 | 636.4 | .0000 | .2167 | 137.6 | 15.9447 | | 0 |
| CRUISE | .3137 | .0000 | .0000 | 2.5013 | .1459 | 651.5 | .0000 | .1459 | 140.6 | 15.4901 | | 0 |
| DECEL | .1078 | .0000 | .0000 | .8827 | .0552 | 218.3 | .0000 | .0552 | 83.4 | 46.3115 | | 0 |
| CRANK | .0000 | .0000 | .0000 | .0000 | .0000 | .0 | .0000 | .0000 | .0 | .0000 | | 0 |
| TOTAL | .5809 | .0000 | .0000 | 4.7198 | .4354 | 1571.4 | .0000 | .4354 | 393.4 | | | 0 |

Phase: 1 Equivalent Mass Results: (Grams/Mile)
.1616 .0000 .0000 1.3128 .1211 437.1 .0000 .1211 393.4 23.1494 0 3.595

Phase: 2

| | | | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|----------|--|---|
| IDLE | .0051 | .0000 | .0000 | .0052 | .0002 | 60.1 | .0000 | .0002 | 36.3 | 169.5079 | | 0 |
| ACCEL | .1578 | .0000 | .0000 | .0285 | .0010 | 791.8 | .0000 | .0010 | 186.0 | 12.8394 | | 0 |
| CRUISE | .1004 | .0000 | .0000 | .0247 | .0008 | 492.2 | .0000 | .0008 | 151.1 | 20.6679 | | 0 |
| DECEL | .0413 | .0000 | .0000 | .0156 | .0005 | 198.2 | .0000 | .0005 | 102.9 | 51.3512 | | 0 |
| TOTAL | .3045 | .0000 | .0000 | .0741 | .0025 | 1542.2 | .0000 | .0025 | 476.2 | | | 0 |

Phase: 2 Equivalent Mass Results: (Grams/Mile)
.0787 .0000 .0000 .0191 .0006 398.4 .0000 .0006 476.2 25.5493 0 3.871

Phase: 3

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|---|
| IDLE | .0038 | .0000 | .0000 | .0040 | .0001 | 42.7 | .0000 | .0001 | 25.5 | 236.5773 | | 0 |
| ACCEL | .1074 | .0000 | .0000 | .3376 | .0137 | 575.2 | .0000 | .0137 | 126.4 | 17.6702 | | 0 |

| Modal Test Results | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|--------|-------|-------|---------|---------|
| ACCEL | .0897 | .0000 | .0460 | .0034 | 516.8 | .0000 | .0034 | 116.4 | 19.6686 | 0 |
| DECEL | .0456 | .0000 | .0000 | .0760 | .0014 | 167.4 | .0000 | .0014 | 91.3 | 60.8341 |
| CRANK | .0000 | .0000 | .0000 | .0000 | .0000 | .0 | .0000 | .0000 | .0 | .0000 |
| TOTAL | .2466 | .0000 | .0000 | .4635 | .0186 | 1302.1 | .0000 | .0186 | 359.6 | 0 |
| Phase: 3 Equivalent Mass Results: (Grams/Mile) | | | | | | | | | | |
| | .0686 | .0000 | .0000 | .1289 | .0052 | 362.1 | .0000 | .0052 | 359.6 | 28.0772 |
| Weighted Total Equivalent Mass Results:(Grams/Mile) | | | | | | | | | | |
| | .0931 | .0000 | .0000 | .3172 | .0268 | 396.5 | .0000 | .0268 | 1229.2 | 25.6449 |

CVS Mass Results: (Grams/Mile)

| | HC | CO | NOX | NMHC | CO2 | CH4 | NMOG+NOX | HFID | Vol.MPG | |
|--|--------|---------|--------|--------|---------|--------|----------|-------|---------|---------|
| Phase: 1 | .16904 | 1.37842 | .12817 | .12863 | 456.518 | .05213 | | .2568 | 0.17396 | 22.1348 |
| Phase: 2 | .07882 | .00000 | .00127 | .01468 | 404.203 | .06947 | | .0159 | 0.07489 | 25.1729 |
| Phase: 3 | .07089 | .10131 | .00700 | .01707 | 367.231 | .06199 | | .0241 | 0.07078 | 27.6982 |
| CVS Weighted Mass Results:(Grams/Mile) | | | | | | | | | | |
| | .09532 | .31324 | .02912 | .03893 | 404.887 | .06382 | | .0680 | .09428 | 25.0769 |

Drive Metrics:

| CSI | RMS |
|--------|------|
| -6.268 | .238 |

SAE Drive Metrics:

| | CED (J) | CET (J) | ER | DistD (M) | DistT (M) | DistR | EER | ASCR | IWR | RMSSE (MPH) |
|-------------------|-----------|-----------|--------|-----------|-----------|-------|--------|--------|--------|-------------|
| Phase: 1 | 4,535,360 | 4,555,860 | -0.450 | 5,785.1 | 5,779.4 | 0.098 | -0.551 | -1.717 | -3.010 | 0.3053 |
| Phase: 2 | 4,209,660 | 4,207,900 | 0.042 | 6,229.6 | 6,211.2 | 0.296 | -0.254 | -0.554 | -0.382 | 0.2456 |
| Phase: 3 | 4,551,910 | 4,555,820 | -0.086 | 5,786.4 | 5,779.4 | 0.120 | -0.206 | -1.111 | -1.835 | 0.2384 |
| Final (Weighted): | | | | | | | | | | |
| | 8,754,450 | 8,763,730 | -0.106 | 12,015.5 | 11,990.7 | 0.207 | -0.313 | -1.025 | -1.307 | 0.2302 |

Test Validation: Valid: Invalid: Retest: Accept: NIC: system / su48 Date: 02/21/2020 09:49:53

Validator's Comments: THIS TEST PASSED ALL VALIDITY CHECKS

Test Options:

| Option | Description |
|--------------------|-------------|
| DHFID Hangup value | .010 |
| Gain | .650 |
| Constant Grade | .000 |

Test Options

Emission Summary Report

| | |
|----------------------------------|-----------------|
| Background Particles | .000 |
| Background Particles for PN | .000 |
| MINI DILUTER T/P DILUTION RATIO | 10.020 |
| Weighted Dilution factor | 14.890 |
| Bag Methane Response Factor | 1.000 |
| DHFID Methane Response Factor | 1.000 |
| Tailpipe Methane Response Factor | 1.000 |
| Soak Duration(Hrs) | 22 |
| CVS K Coeff | 272.490 |
| Threshold | 350 |
| Pre Test Vehicle Temperature | Cold |
| Trace Start Method | Crank (Pendant) |
| Actual Driver | Human |
| CVS Venturi Selection | Low |
| 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 |
| Cert Mode | Y |
| DbW Available | Y |
| Diesel Test | Y |
| Mule Vehicle to Park | Y |
| Rolls Requirement | Y |
| SAE Calculations Required | Y |
| WLTP Fan Required | Y |

Sequence Purpose

IUVP – EPA75

Operator Comments

1.WLTP fan was used at 12"(From front of bumper) X 29"(Height)

System Comments

02/21/2020 08:36:54: Reported Bag NMHC is calculated, not from analyzer

Sampling Type List

DCVS , Diesel Tailpipe / Particulates – Multiple

Test Request Purpose

15MY–T03.05PV CERT – IUVT Consent Decree (RL, Prep, EPA75, HWY, US06) 3.0L WK A8 – Fed – MS10756 – BIN5

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