

EMISSIONS SUMMARY REPORT

Vehicle ID: **T6305PV53 / 2MT33** Test ID: **T6305PV53_HWFE2X011620032001 / 578863043**
 Test Req: **082011200477-5** Location: **CHELSEA PROVING GROUNDS (Chrysler LLC)**
 Test Type: **HWFE(2X)** Facility: **Test Cell 16** Start Time: **03/20/2020 09:18:43**
 Requestor: **REDACTED** Shift Sched.: **AUTO** Trace End: **03/20/2020 09:44:28**
 Driver: **REDACTED** Option(s): **Tailpipe modal & Bag** Inertia Weight: (lbs) **5500**
 Operator: **REDACTED** Fuel Type: **MS10756** Road Load Coeff A: **22.73**
 Start Odometer: **70645** Fuel Anal.#: **10854** Road Load Coeff B: **-.0211**
 AutoLoad File: **None** INCA Project File: **null** Road Load Coeff C: **0.03158**
 Cell Temp Set Pt: **75** Altitude Set Pt(ft.): **0** Hum. Set Pt (Grains): **50.00**
 Test Segment: **3/3** Vehicle Desc.: **0.00 WKJP74 Brilliant** Emissions Standard: **EPA**
 Test Req. Purpose: **16MY-T03.05PV CERT - IUVT Consent Decree (RL, Prep, EPA75, HWY, US06) 3.0L WK A8 - Fed - MS10756 - BIN5**
 Seq. Purpose: **IUVP - HWFE**

| Individual Cycles:(Grams/Mile) | Tailpipe: | | | | | | | | | | | |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----|--------|
| | HC | NMHC | CH4 | CO | NOX | CO2 | NO | NO2 | ExVol | MPG | DM | Miles |
| Cycle1 | .0041 | .0000 | .0000 | .0134 | .0015 | 260.8 | .0000 | .0015 | 687.9 | 38.9836 | | 10.264 |

Modal Test Results:(Grams)

Phase: 1

| | | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|---------|---|
| ACCEL | .0118 | .0000 | .0000 | .0384 | .0075 | 813.3 | .0000 | .0075 | 192.9 | 12.5148 | 0 |
| CRUISE | .0176 | .0000 | .0000 | .0566 | .0053 | 1101.8 | .0000 | .0053 | 283.7 | 9.2327 | 0 |
| DECEL | .0049 | .0000 | .0000 | .0151 | .0011 | 238.3 | .0000 | .0011 | 81.1 | 42.7471 | 0 |
| STEADY | .0081 | .0000 | .0000 | .0269 | .0020 | 523.5 | .0000 | .0020 | 130.2 | 19.4539 | 0 |
| TOTAL | .0424 | .0000 | .0000 | .1370 | .0159 | 2677.0 | .0000 | .0159 | 687.9 | | 0 |

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

| | | | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------|---------------|
| | .0041 | .0000 | .0000 | .0134 | .0015 | 260.8 | .0000 | .0015 | 687.9 | 38.9836 | 0 | 10.264 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------|---------------|

CVS Mass Results: (Grams/Mile)

| | HC | CO | NOX | NMHC | CO2 | CH4 | NMOG+NOX | HFID | Vol.MPG |
|----------|--------|--------|--------|--------|---------|--------|----------|---------|---------|
| Phase: 1 | .00230 | .00011 | .00097 | .00417 | 259.168 | .00171 | .0051 | 0.00565 | 39.2860 |

Drive Metrics:

| CSI | RMS |
|-------|------|
| -.919 | .118 |

SAE Drive Metrics:

| | CED (J) | CET (J) | ER | DistD (M) | DistT (M) | DistR | EER | ASCR | IWR | RMSSE (MPH) |
|----------|------------|------------|-------|-----------|-----------|-------|--------|--------|--------|-------------|
| Phase: 1 | 11,397,700 | 11,393,300 | 0.039 | 16,518.9 | 16,507.3 | 0.070 | -0.031 | -1.580 | -1.732 | 0.1646 |

Test Validation

Test Validation: Valid: Invalid: Retest: Accept: NIC: system Date: 03/20/2020 10:06:41

Validator's Comments:

Quick Check CoastDown:

| | RUN #1 | RUN #2 | RUN #3 | RUN #4 |
|----|---------|---------|---------|---------|
| A= | 60.5549 | 60.0358 | 60.0086 | 60.2770 |
| B= | -0.2543 | -0.2622 | -0.2786 | -0.2989 |
| C= | 0.0364 | 0.0361 | 0.0362 | 0.0364 |

| Match Time | 55-45 MPH Coastdown time from measured coefficients | | | | Avg. Time |
|-------------|---|-----------------------|------------------------|------------------------|-----------------------|
| 18.5700 sec | 18.3138 sec 98.62% | 18.5199 sec 99.73% | 18.5698 sec 100.00% | 18.6103 sec 100.22% | 18.5667 sec 99.98% |

Test Options:

| Option | Description |
|----------------------------------|-------------|
| Constant Grade | .000 |
| Threshold | 0 |
| Gain | .000 |
| Background Particles | .000 |
| Background Particles for PN | .000 |
| MINI DILUTER T/P DILUTION RATIO | 8.350 |
| Weighted Dilution factor | 16.110 |
| DHFID Hangup value | .000 |
| Bag Methane Response Factor | 1.000 |
| DHFID Methane Response Factor | 1.000 |
| Tailpipe Methane Response Factor | 1.000 |
| Soak Duration(Hrs) | 20 |
| CVS K Coeff | 426.213 |
| 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 |

Test Options

Emission Summary Report

| | |
|----------------------------|----------------|
| OBD II Monitor | None Requested |
| Abort test on dead battery | Y |
| Abort Test on INCA Failure | Y |
| Cert Mode | Y |
| DbW Available | Y |
| Diesel Test | Y |
| Hybrid Test | Y |
| Quick Check Coast Downs | Y |
| SAE Calculations Required | Y |
| WLTP Fan Required | Y |

Sequence Purpose

IUVP – HWFE

Engr. SpclInst

Engineer to take vehicle scan before and after each sequence

System Comments

03/20/2020 09:52:10: Reported Bag NMHC is calculated, not from analyzer

03/20/2020 09:56:52: CoastDown Succeeded, The Average Coastdown time is 18.57,The match time is 18.57, The Average Coastdown time is 99.98 percent of Given Match time.

Sampling Type List

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

Test Request Purpose

16MY–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.