

EMISSIONS SUMMARY REPORT

| | | | |
|--------------------|--|-----------------------|--|
| Vehicle ID: | X4XXX6355 / 045M554 | Test ID: | X4XXX6355_US2XSP020719072801 / 1111012144 |
| Test Req: | 082012190844-6 | Location: | CHRYSLER TECH CENTER |
| Test Type: | US06(2X) – using Split Bag US06 | Facility: | Test Cell 7 |
| Requestor: | REDACTED | Shift Sched.: | AUTO |
| Driver: | REDACTED | Option(s): | Tailpipe modal & Bag |
| Operator: | REDACTED | Fuel Type: | MS10756 |
| Start Odometer: | 81911 | Fuel Anal.#: | 10762 |
| AutoLoad File: | None | INCA Project File: | X4XXX6355.exp |
| Cell Temp Set Pt: | 75 | Altitude Set Pt(ft.): | 930 |
| Test Segment: | 3/3 | Vehicle Desc.: | 0.00 GRAND CHERBLUE |
| Test Req. Purpose: | Emissions baseline in as-received condition. AEM was applied in the field by dealership. | | |
| Seq. Purpose: | MY14 WK Baseline with AEM applied | | |

| | Individual Cycles:(Grams/Mile) Tailpipe: | | | | | | | | | | | |
|--------|---|-------|-------|-------|-------|-------|-------|-------|-------|---------|----|-------|
| | HC | NMHC | CH4 | CO | NOX | CO2 | NO | NO2 | ExVol | MPG | DM | Miles |
| Cycle1 | .0154 | .0070 | .0099 | .0106 | .1097 | 701.5 | .0803 | .0411 | 53.0 | 14.5148 | | .268 |
| Cycle2 | .0109 | .0071 | .0045 | .0066 | .0745 | 534.5 | .0718 | .0087 | 139.2 | 19.0540 | | 1.022 |
| Cycle3 | .0051 | .0029 | .0026 | .0051 | .0698 | 390.1 | .0665 | .0101 | 586.6 | 26.0897 | | 6.244 |
| Cycle4 | .0207 | .0083 | .0160 | .0098 | .3079 | 975.1 | .2736 | .0645 | 87.6 | 10.4359 | | .274 |
| Cycle5 | .0208 | .0126 | .0102 | .0091 | .7235 | 965.3 | .6917 | .1077 | 58.1 | 10.5440 | | .223 |

Modal Test Results:(Grams)

Phase: 1

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|---------|--|---|
| IDLE | .0011 | .0004 | .0008 | .0004 | .0002 | 20.3 | .0000 | .0000 | 11.9 | 4517 | | 0 |
| ACCEL | .0152 | .0098 | .0074 | .0111 | .2933 | 1031.7 | .2936 | .0356 | 202.6 | 7.6968 | | 0 |
| DECEL | .0093 | .0041 | .0058 | .0028 | .0577 | 164.8 | .0305 | .0260 | 123.3 | 62.0369 | | 0 |
| TOTAL | .0256 | .0142 | .0139 | .0143 | .3512 | 1216.8 | .3241 | .0616 | 337.8 | | | 0 |

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

| | | | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------|--------------|
| | .0143 | .0080 | .0078 | .0080 | .1965 | 680.9 | .1814 | .0345 | 337.8 | 14.9412 | 0 | 1.787 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------|--------------|

Phase: 2

| | | | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|---------|--|---|
| IDLE | .0003 | .0001 | .0002 | .0001 | .0000 | 4.6 | .0000 | .0000 | 2.5 | 4470 | | 0 |
| ACCEL | .0129 | .0084 | .0056 | .0137 | .3012 | 1135.0 | .2838 | .0506 | 233.9 | 17.0438 | | 0 |
| CRUISE | .0129 | .0071 | .0067 | .0148 | .1072 | 1046.4 | .1074 | .0083 | 250.1 | 29.7528 | | 0 |
| DECEL | .0057 | .0025 | .0036 | .0033 | .0277 | 249.9 | .0239 | .0040 | 100.0 | 52.1803 | | 0 |
| TOTAL | .0318 | .0182 | .0161 | .0319 | .4361 | 2435.8 | .4151 | .0629 | 586.6 | | | 0 |

Phase: 2 Equivalent Mass Results: (Grams/Mile)

| | | | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------|--------------|
| | .0051 | .0029 | .0026 | .0051 | .0698 | 390.1 | .0665 | .0101 | 586.6 | 26.0897 | 0 | 6.244 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------|--------------|

Phase: 1A

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--|--|-------|---------|--|---|
| IDLE | .0005 | .0001 | .0003 | .0002 | .0000 | 9.4 | | | 4.8 | 1084 | | 0 |
| ACCEL | .0092 | .0065 | .0038 | .0076 | .1001 | 635.9 | | | 120.4 | 9.1094 | | 0 |
| DECEL | .0056 | .0026 | .0032 | .0018 | .0053 | 88.8 | | | 66.9 | 82.7132 | | 0 |
| TOTAL | .0153 | .0092 | .0073 | .0096 | .1055 | 734.1 | | | 192.1 | | | 0 |

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

| Modal Test Results | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----------------|
| Phase: 1B | | | | | | | | | | |
| IDLE | .0006 | .0002 | .0004 | .0002 | .0001 | 10.9 | | 7.1 | .7477 | 0 |
| ACCEL | .0060 | .0033 | .0036 | .0035 | .1932 | 395.8 | | 82.2 | 5.4239 | 0 |
| DECEL | .0038 | .0015 | .0026 | .0010 | .0524 | 76.1 | | 56.4 | 38.2491 | 0 |
| TOTAL | .0103 | .0051 | .0067 | .0047 | .2457 | 482.7 | | 145.6 | | 0 |
| Phase: 1B Equivalent Mass Results: (Grams/Mile) | | | | | | | | | | |
| | .0208 | .0102 | .0134 | .0095 | .4941 | 970.7 | | 145.6 | 10.4788 | 0 .497 |
| Total Equivalent Mass Results:(Grams/Mile) | | | | | | | | | | |
| | .0071 | .0040 | .0037 | .0058 | .0980 | 454.8 | .0920 | .0155 | 924.4 | 22.3626 0 8.031 |

| CVS Mass Results: (Grams/Mile) | | | | | | | | | | | |
|-------------------------------------|--------|--------|--------|---------|--------|--------|----------|----------|--------|---------|---------|
| | HC | CO | NOX | CO2 | NMHC | CH4 | NMHC+NOX | NMOG+NOX | HFID | Vol.MPG | |
| Phase: 1 | .01446 | .00782 | .20693 | 704.048 | .00000 | .00475 | | .2069 | .20693 | 0.00266 | 14.4538 |
| Phase: 2 | .00044 | .00517 | .07432 | 385.508 | .00000 | .00094 | | .0743 | .07432 | 0.00029 | 26.3612 |
| CVS Total Mass Results:(Grams/Mile) | | | | | | | | | | | |
| | .00356 | .00576 | .10382 | 456.390 | .00000 | .00179 | | .1038 | .10382 | .00082 | 22.3145 |

| Drive Metrics: | |
|----------------|------|
| CSI | RMS |
| -10.848 | .357 |

| SAE Drive Metrics: | | | | | | | | | | |
|--------------------|-------------------|-------------------|--------------|-----------------|-----------------|--------------|---------------|---------------|---------------|---------------|
| | CED (J) | CET (J) | ER | DistD (M) | DistT (M) | DistR | EER | ASCR | IWR | RMSSE (MPH) |
| Phase: 1 | 4,648,770 | 4,591,400 | 1.250 | 2,876.7 | 2,852.2 | 0.858 | 0.387 | 0.373 | 0.798 | 0.7132 |
| Phase: 2 | 10,287,400 | 10,302,200 | -0.143 | 10,049.7 | 10,036.0 | 0.136 | -0.280 | -6.381 | -8.250 | 0.3169 |
| Final: | 14,936,200 | 14,893,600 | 0.286 | 12,926.4 | 12,888.2 | 0.296 | -0.010 | -1.767 | -3.607 | 0.5106 |

Test Validation: Valid: Invalid: Retest: Accept: NIC: system Date: 07/28/2019 13:39:08
 Validator's Comments:

| Test Options: | |
|--------------------|-------------|
| Option | Description |
| Induced Failure | |
| DHFID Hangup value | .003 |
| Gain | .650 |

Test Options

Emission Summary Report

| | |
|----------------------------------|----------------|
| Constant Grade | .000 |
| Diesel Regeneration Required | 0 |
| MINI DILUTER T/P DILUTION RATIO | 8.720 |
| Weighted Dilution factor | 12.790 |
| Tailpipe Methane Response Factor | 1.056 |
| Bag Methane Response Factor | 1.081 |
| DHFID Methane Response Factor | 1.113 |
| Soak Duration(Hrs) | 27 |
| 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

MY14 WK Baseline with AEM applied

Engr. SpclInst

DiagRA data needs taken before and after each sequence

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 Comments

Emission Summary Report

Test Request Purpose

Emissions baseline in as-received condition. AEM was applied in the field by dealership.