2014 VW Gen1 ATX Testing Summary
Vehicle VIN: Ex. 6 Personal Privacy (PP)
2014 VW Gen1 Jetta 2.0L
Consent Decree Emissions

| | |
|---|---|
| **Exhaust Emission standard =** | **0.160 g/mi** |
| **Test Group SFTP FEL =** | **0.260 g/mi** |
| Cold Start Bag 1 = | 0.055 |
| Cold Start Bag 2 = | 0.002 |
| Cold Start Bag 3 = | 0.013 |

Suspect data =
Regen =

| Test Route | Date | Start | Stop | Miles | Avg. Amb Temp (C) | Avg. Amb Temp (F) | ECT @ Start (F) | NOX g/mi | HC g/mi | Sum g/mi | Calc NMHC | Calc Sum | FE | Avg Speed | Regen? | Avg. SCR Temp (C) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 4/14/2017 | 9:06 AM | 9:27 AM | 7.69 | 10.0 | 50.0 | n/a | **0.137** | **0.175** | **0.313** | **0.036** | **0.173** | 33.6 | 21.4 | No | 242.9 | Cold Start; caution HC range |
| D | 4/14/2017 | 9:28 AM | 10:50 AM | 82.33 | 12.0 | 53.6 | N/A | **0.077** | **0.090** | **0.167** | **0.018** | **0.095** | 38.9 | 59.9 | No | 379.0 | Caution HC range |
| E | 4/14/2017 | 10:51 AM | 11:54 AM | 29.55 | 13.9 | 57.0 | N/A | **0.084** | **0.117** | **0.201** | **0.024** | **0.108** | 38.3 | 27.9 | No | 312.0 | Caution HC range |
| B | 4/17/2017 | 9:14 AM | 9:45 AM | 10.59 | 14.2 | 57.6 | N/A | **0.007** | **0.123** | **0.130** | **0.025** | **0.032** | 35.2 | 20.8 | No | 279.3 | Caution HC range, NOx drift |
| C | 4/17/2017 | 9:45 AM | 10:28 AM | 30.57 | 15.5 | 59.8 | N/A | **0.010** | **0.129** | **0.139** | **0.026** | **0.037** | 37.8 | 42.7 | No | 354.1 | Caution HC range, NOx drift |
| CCD | 4/17/2017 | 10:29 AM | 11:34 AM | 38.81 | 17.5 | 63.5 | 209.0 | 0.192 | 0.102 | 0.294 | 0.038 | 0.142 | 35.6 | 35.7 | Yes | 377.5 | Regen! |
| B | 4/18/2017 | 8:46 AM | 9:18 AM | 10.99 | 8.0 | 46.4 | 44.6 | **0.043** | **0.163** | **0.207** | **0.033** | **0.076** | 32.0 | 20.6 | No | 257.2 | Caution HC range |
| CCD | 4/18/2017 | 1:02 PM | 2:15 PM | 38.62 | 18.8 | 65.8 | n/a | **0.017** | **0.101** | **0.118** | **0.021** | **0.038** | 35.2 | 31.8 | No | 306.3 | Caution HC range |
| A | 4/19/2017 | 9:00 AM | 9:20 AM | 4.45 | 18.6 | 65.4 | 77.0 | **0.005** | **0.244** | **0.248** | **0.049** | **0.054** | 22.2 | 13.3 | No | 253.8 | Bad GPS data, mileage was closer to 7.78 |
| B | 4/19/2017 | 9:21 AM | 9:49 AM | 10.85 | 18.8 | 65.8 | n/a | **0.000** | **0.138** | **0.138** | **0.028** | **0.028** | 39.9 | 23.3 | No | 284.1 | NOx ppm suspect during drive. |
| C | 4/19/2017 | 9:49 AM | 10:33 AM | 30.68 | 19.5 | 67.0 | n/a | **0.016** | **0.135** | **0.151** | **0.027** | **0.043** | 38.1 | 42.0 | No | 346.5 | Caution HC range, NOx drift |
| B | 4/21/2017 | 9:10 AM | 9:43 AM | 10.94 | 10.2 | 50.4 | 73.4 | **0.008** | **0.155** | **0.163** | **0.031** | **0.040** | 33.0 | 19.6 | No | 255.6 | Lab start, new PEMS unit; Caution, PEMS Drift |
| C | 4/21/2017 | 9:44 AM | 10:25 AM | 30.56 | 8.7 | 47.6 | n/a | **0.039** | **0.103** | **0.142** | **0.021** | **0.060** | 37.9 | 44.4 | No | 349.5 | Caution, PEMS Drift |
| CCD | 4/21/2017 | 10:26 AM | 11:33 AM | 38.44 | 9.0 | 48.2 | n/a | **0.016** | **0.093** | **0.109** | **0.019** | **0.035** | 36.1 | 34.2 | No | 314.0 | Caution, PEMS Drift |
| E | 4/21/2017 | 11:54 AM | 12:32 PM | 29.47 | 9.5 | 49.1 | n/a | 0.204 | 0.086 | 0.290 | 0.017 | 0.222 | 36.4 | 35.6 | Yes | 360.4 | Regen! |
| A | 4/24/2017 | 12:27 PM | 12:51 PM | 6.01 | 20.1 | 68.2 | 71.6 | **0.021** | **0.181** | **0.202** | **0.037** | **0.058** | 25.3 | 14.5 | No | 258.9 | GPS data inaccurate |
| C | 4/24/2017 | 1:01 PM | 1:44 PM | 30.81 | 20.4 | 68.7 | n/a | **0.035** | **0.120** | **0.156** | **0.024** | **0.060** | 37.8 | 42.9 | No | 353.8 | |
| CCD | 4/24/2017 | 1:50 PM | 3:00 PM | 38.74 | 21.5 | 70.7 | 204.8 | **0.021** | **0.129** | **0.150** | **0.013** | **0.034** | 36.4 | 33.5 | No | 319.0 | |
| B | 4/26/2017 | 10:22 AM | 10:50 AM | 11.13 | 19.9 | 67.9 | 59.0 | **0.030** | **0.210** | **0.239** | **0.042** | **0.072** | 36.2 | 23.5 | No | 281.6 | |
| E | 4/26/2017 | 1:28 PM | 2:29 PM | 29.74 | 25.6 | 78.0 | n/a | **0.008** | **0.146** | **0.154** | **0.030** | **0.038** | 38.6 | 29.1 | No | 327.9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1295 | 1295 | 9.998 | 10.01392111 | 7.781 | 7.690361111 | 0.229 | 0.228618 | 34.033 | 33.63847602 | 1.056 | 1.056 | 0.136 | 0.137314748 | 1.349 | 1.34924 | 0.173 | 0.175445597 | n/a | 09:06:14.110 | 09:27:48.110 | 21.37861004 | No | 242.9051848 |
| 4946 | 4946 | 11.999 | 12.00370146 | 83.087 | 82.33347222 | 2.114 | 2.11413 | 39.301 | 38.94437533 | 6.342 | 6.34146 | 0.076 | 0.077021651 | 7.424 | 7.42408 | 0.089 | 0.09017086 | N/A | 09:28:14.110 | 10:50:39.110 | 59.927315 | No | 379.0363018 |
| 3810 | 3810 | 13.905 | 13.91207983 | 29.886 | 29.55302778 | 0.771 | 0.771178 | 38.753 | 38.32192798 | 2.494 | 2.49357 | 0.083 | 0.084376126 | 3.451 | 3.45074 | 0.115 | 0.116764347 | N/A | 10:51:05.110 | 11:54:34.110 | 27.92412073 | No | 311.9936829 |
| 1837 | 1837 | 14.223 | 14.23820163 | 10.709 | 10.58986111 | 0.301 | 0.300842 | 35.595 | 35.20074029 | 0.069 | 0.06893 | 0.006 | 0.006509056 | 1.304 | 1.30409 | 0.122 | 0.123145147 | N/A | 09:14:55.838 | 09:45:31.838 | 20.7531301 | No | 279.2847587 |
| 2576 | 2576 | 15.439 | 15.4510878 | 30.85 | 30.56652778 | 0.808 | 0.80814 | 38.172 | 37.82330757 | 0.32 | 0.32035 | 0.01 | 0.010480418 | 3.933 | 3.93232 | 0.127 | 0.128647913 | N/A | 09:45:59.838 | 10:28:54.838 | 42.7171972 | No | 354.0634832 |
| 3891 | 3891 | 17.734 | 17.74294163 | 38.965 | 38.60977778 | 1.149 | 1.148694 | 33.922 | 33.61189122 | 5.095 | 5.09499 | 0.131 | 0.131961132 | 3.942 | 3.94139 | 0.101 | 0.102082691 | 203 | 10:29:28.838 | 11:34:18.838 | 35.72223079 | Yes | 377.5270037 |
| 1923 | 1923 | 7.968 | 7.976054138 | 11.113 | 10.98605556 | 0.343 | 0.343008 | 32.406 | 32.02856947 | 0.474 | 0.47448 | 0.043 | 0.043189296 | 1.795 | 1.79459 | 0.161 | 0.163351623 | 44.6 | 08:46:55.353 | 09:18:57.353 | 20.56671867 | No | 257.2110197 |
| 4372 | 4372 | 18.76 | 18.76864989 | 38.949 | 38.61897222 | 1.098 | 1.097556 | 35.49 | 35.1863342 | 0.655 | 0.65451 | 0.017 | 0.016947888 | 3.908 | 3.90785 | 0.1 | 0.101189902 | n/a | 13:02:31.353 | 14:15:22.353 | 31.79970265 | No | 306.3040065 |
| 1210 | 1210 | 18.521 | 18.55149007 | 7.776 | 4.453638889 | 0.2 | 0.200428 | 38.798 | 22.22064227 | 0.021 | 0.02047 | 0.003 | 0.004596242 | 1.085 | 1.08513 | 0.14 | 0.243650199 | 77 | 09:00:22.312 | 09:20:31.312 | 13.25049587 | No | 253.8271089 |
| 1675 | 1675 | 18.75 | 18.7720263 | 10.976 | 10.85002778 | 0.272 | 0.271849 | 40.376 | 39.91196502 | 0 | 0 | 0 | 0 | 1.495 | 1.49514 | 0.136 | 0.137800569 | n/a | 09:21:09.312 | 09:49:03.312 | 23.31946269 | No | 284.1205265 |
| 2633 | 2633 | 19.436 | 19.45070315 | 30.982 | 30.68344444 | 0.806 | 0.805568 | 38.46 | 38.08920469 | 0.491 | 0.49066 | 0.016 | 0.015991034 | 4.133 | 4.1334 | 0.133 | 0.134711082 | n/a | 09:49:34.312 | 10:33:26.312 | 41.95229776 | No | 346.4855451 |
| 2006 | 2006 | 10.218 | 10.22864271 | 11.271 | 10.93594444 | 0.331 | 0.331406 | 34.018 | 32.99863142 | 0.09 | 0.0903 | 0.008 | 0.008257174 | 1.694 | 1.69376 | 0.15 | 0.154880085 | 73.4 | 09:10:31.796 | 09:43:56.796 | 19.62582253 | No | 255.6255684 |
| 2480 | 2480 | 8.658 | 8.664729621 | 30.864 | 30.55538889 | 0.805 | 0.805201 | 38.336 | 37.94752973 | 1.193 | 1.19284 | 0.039 | 0.039038613 | 3.134 | 3.13445 | 0.102 | 0.10258256 | n/a | 09:44:22.796 | 10:25:41.796 | 44.35459677 | No | 349.5374262 |
| 4051 | 4051 | 8.977 | 8.981057051 | 38.846 | 38.44197222 | 1.066 | 1.066345 | 36.431 | 36.05022035 | 0.625 | 0.62386 | 0.016 | 0.016228616 | 3.562 | 3.56133 | 0.092 | 0.092641709 | n/a | 10:26:22.796 | 11:33:52.796 | 34.16220686 | No | 314.0278638 |
| 3469 | 3469 | 9.486 | 9.49163542 | 29.751 | 29.47316667 | 0.809 | 0.809144 | 36.769 | 36.42511922 | 6.021 | 6.02035 | 0.202 | 0.204265462 | 2.521 | 2.52084 | 0.085 | 0.085530002 | n/a | 11:34:49.796 | 12:32:37.796 | 30.58616316 | Yes | 360.4406492 |
| 1493 | 1493 | 20.091 | 20.11730382 | 8.079 | 6.013972222 | 0.238 | 0.237508 | 34.025 | 25.32113538 | 0.127 | 0.12679 | 0.016 | 0.021082572 | 1.09 | 1.09001 | 0.135 | 0.181246264 | 71.6 | 12:27:07.360 | 12:51:59.360 | 14.50120563 | No | 258.8858497 |
| 2586 | 2586 | 20.358 | 20.37376161 | 31.11 | 30.80961111 | 0.814 | 0.814284 | 38.209 | 37.83644418 | 1.09 | 1.0906 | 0.035 | 0.035398045 | 3.709 | 3.70902 | 0.119 | 0.120385161 | n/a | 13:01:17.260 | 13:44:22.260 | 42.8904099 | No | 353.7912131 |
| 4158 | 4158 | 21.49 | 21.50072185 | 39.096 | 38.74163889 | 1.066 | 1.065645 | 36.688 | 36.35510784 | 0.818 | 0.81806 | 0.021 | 0.021115782 | 4.99 | 4.98935 | 0.128 | 0.128785207 | 204.8 | 13:50:48.830 | 15:00:05.830 | 33.54254449 | No | 318.9773209 |
| 1705 | 1705 | 19.905 | 19.92842043 | 11.229 | 11.13477778 | 0.307 | 0.307316 | 36.542 | 36.23233993 | 0.33 | 0.32949 | 0.029 | 0.029591071 | 2.335 | 2.33507 | 0.208 | 0.209709619 | 59 | 10:22:05.713 | 10:50:29.713 | 23.51038123 | No | 281.6228705 |
| 3680 | 3680 | 25.56 | 25.57395324 | 29.964 | 29.74311111 | 0.771 | 0.77099 | 38.865 | 38.57781698 | 0.252 | 0.25095 | 0.008 | 0.008437248 | 4.341 | 4.34089 | 0.145 | 0.145946064 | n/a | 13:28:31.203 | 14:29:50.203 | 29.09652174 | No | 327.8766052 |

**Cell:** M6

**Comment:** Cullen, Daniel:

if starting ECT < 80 F, used Bag 1 NMHC %,

if starting ECT >80 and <170 used Bag 3 NMHC %, if starting ECT > 170 used fully warmed up NMHC%

otherwise used weighted NMHC %

2014 VW Gen1 ATX Testing Summary
Vehicle VIN: Ex. 6 Personal Privacy (PP)
2014 VW Gen1 Jetta 2.0L
Consent Decree Emissions

| | | |
|---|---|---|
| **Exhaust Emission standard =** | **0.16** | **g/mi** |
| **Test Group SFTP FEL =** | **0.260** | **g/mi** |
| Cold Start Bag 1 = | 0.055 | |
| Cold Start Bag 2 = | 0.002 | |
| Cold Start Bag 3 = | 0.013 | |

Suspect data =

| Off Time sec. | Off Time min. | Date | Start | Stop | Miles | Start. Amb Temp (C) | Start Amb Temp (F) | ECT @ Start (F) | DPF Temp @ Start (C) | NOX g/mi | HC g/mi | FE mpg | Avg Speed mph | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 600 | 10 | 4/18/2017 | 9:29 AM | 9:39 AM | 2.60 | 9.0 | 48.2 | n/a | 172.7 | **0.113** | **0.174** | 26.1 | 16.6 | Approx soak |
| 3600 | 60 | 4/18/2017 | 10:40 AM | 10:53 AM | 2.74 | 13.0 | 55.4 | n/a | 97.9 | **0.012** | **0.094** | 25.3 | 12.5 | Approx soak |
| 7200 | 120 | 4/18/2017 | 12:51 PM | 1:00 PM | 2.59 | 17.0 | 62.6 | n/a | 124.5 | **0.039** | **0.215** | 25.1 | 16.9 | Approx soak |
| 600 | 10 | 4/21/2017 | 12:41 PM | 12:53 PM | 2.59 | 10.0 | 50.0 | n/a | 206.9 | **0.001** | **0.102** | 28.6 | 13.1 | Approx soak |
| 3600 | 60 | 4/21/2017 | 1:52 PM | 2:02 PM | 2.77 | 11.0 | 51.8 | 0.0 | 148.8 | **0.029** | **0.032** | 30.2 | 15.7 | Approx soak |
| 0 | 0 | 4/26/2017 | 12:05 PM | 12:21 PM | 2.59 | 22.0 | 71.6 | n/a | 196.5 | **0.013** | **0.124** | 26.3 | 9.8 | |
| 3600 | 60 | 4/26/2017 | 1:16 PM | 1:26 PM | 2.73 | 25.0 | 77.0 | n/a | 111.2 | **0.030** | **0.093** | 28.0 | 16.2 | Approx soak |

Transpose Paste Column

| Start Time | Stop Time | Test Distance (Miles) | Start Ambient (deg C) | Start ECT (deg F) | Start DPF Temp (deg C) | NOx g total | NOx g/mile | HC g total | HC g/mile | Test fuel economy (MPG) | Run average speed (MPH) | Off time before run(sec) | Start Row |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09:29:45.353 | 09:39:10.353 | 2.60 | 9.00 | n/a | 172.70 | 0.293 | 0.113 | 0.452 | 0.174 | 26.08 | 16.58 | | 590 |
| 10:40:51.353 | 10:53:58.353 | 2.741694444 | 13 | n/a | 97.9 | 0.03275 | 0.011945168 | 0.25773 | 0.094003911 | 25.31246602 | 12.54142313 | | 1396 |
| 12:51:34.353 | 13:00:45.353 | 2.59 | 17.00 | n/a | 124.45 | 0.102 | 0.039 | 0.559 | 0.215 | 25.14 | 16.95 | | 1423 |
| 12:41:54.796 | 12:53:45.796 | 2.59 | 10.00 | n/a | 206.92 | 0.002 | 0.001 | 0.263 | 0.102 | 28.58 | 13.10 | 600 | 518 |
| 13:52:10.796 | 14:02:46.796 | 2.77 | 11.00 | | 148.79 | 0.079 | 0.029 | 0.089 | 0.032 | 30.20 | 15.65 | 3600 | 1042 |
| 12:05:40.747 | 12:21:33.747 | 2.587805556 | 22 | n/a | 196.5 | 0.03293 | 0.012725067 | 0.32008 | 0.123687809 | 26.31729114 | 9.775550892 | unk | 701 |
| 13:16:04.203 | 13:26:10.203 | 2.729361111 | 25 | n/a | 111.2 | 0.0832 | 0.030483324 | 0.25429 | 0.093168324 | 28.00953482 | 16.2140264 | 3600 | 1272 |

2014 VW Gen1 ATX Testing Summary
Vehicle VIN Ex. 6 Personal Privacy (PP)
2014 VW Gen1 Jetta 2.0L
Consent Decree Emissions

| Test Cycle | Date | NOX g/mi |
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| | SFTP calculated from EPA Testing = | 0.000 |

Reference GM Lab test Summary
Vehicle

LDV

SFTP Calculated from EPA FTP average **#DIV/0!**

| Test Cycle | Date | NOX g/mi |
|---|---|---|
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SFTP Calculated from GM data **0.000**

| | |
|---|---|
| | **Exhaust Emission standard =** |
| | **Test Group SFTP FEL =** |

Inertia =

| NMHC g/mi | CO g/mi | CO2 g/mi | FE | Bag 1 Nox g/mi |
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g/mi

g/mi

| NMHC g/mi | CO g/mi | CO2 g/mi | FE | Bag 1 Nox g/mi |
|---|---|---|---|---|
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|---|---|
| **0.160** | **g/mi** |
| **0.260** | **g/mi** |

4250 #

| Bag 2 NOx g/mi | Bag 3 NOx g/mi | Bag 4 NOx g/mi | Notes |
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THC

Max US06 Allowed assuming valid SC03 & FTP = **0.929** g/mi

| Bag 2 NOx g/mi | Bag 3 NOx g/mi | Bag 4 NOx g/mi | Notes |
|---|---|---|---|
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Suspect data =

NMHC
%

HC to NMHC %

| | | HC | | | | | NMHC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Date | Test | Bag 1 | Bag 2 | Bag 3 | Bag 4 | Weighted | Bag 1 | Bag 2 | Bag 3 | Bag 4 |
| 3/7/2017 | FTP | 0.301 | 0.060 | 0.078 | | 0.115 | 0.061 | 0.005 | 0.057 | |
| 3/7/2017 | Spl #4 | 0.108 | 0.031 | 0.044 | 0.106 | 0.072 | 0.007 | 0.004 | 0.006 | 0.012 |

| | | THC | NMHC | % |
|---|---|---|---|---|
| Weighted | Weighted Average | 0.094 | 0.019 | 20.3% |
| 0.031 | Warm Average | 0.070 | 0.007 | 9.7% |
| 0.007 | Cold Start Avergage | 0.301 | 0.061 | 20.3% |
| | Hot Start Average | 0.078 | 0.057 | 73.1% |