

Test = US06 90Idle US06

Options = CVS Bag Sec ShowToI Methane MethaneRF

Test Init Start = June 16, 2020 12:21:49 Test Start = June 16, 2020 12:35:16
Posttest Completed At = June 16, 2020 13:05:10 Test Finish = June 16, 2020 12:57:12
Hot Soak Start Time = June 15, 2020 11:47:00

Personnel Information::

Driver = REDACTED Operator = REDACTED
Requestor = Supervisor =

Vehicle Information:

VIN = [REDACTED] Cert Tracking ID = 2964-EC299348
Vehicle Model = JEEP CHEROKEE Model Year = 2014
Engine Family = ECRXT03.05PV Eng. Disp. = 3.0
Ignition Status = No Transmission =
Automatic = 1 Idle RPM =
Sample Delay =

Vehicle Conditions:

Soak Start Time = JUNE 15, 2020 11:47 Ambient Limit Type = OTHER7

Test Specifications:

TO-Number = W0110 CVS BulkStream Flow : = 3) 625 scfm
TestNet Number = 2964

Dynamometer:

Inertia = 5500 (lb) Road Load A = 13.93 (lbs)
Road Load B = 0.4178 Road Load C = 0.02593

Fuel Information:

Fuel = DIE-DJ1621HW10 Specific gravity = 0.8520
NHV = 18083.00 Fuel R-Factor = 0.60
CWF = 0.8710 OWF = 0.0000
HWF = 0.1290 Fuel Calculation Type = Diesel/EPA Calcs

Phase Information:

Phase 1 Shift Tables N/A Event Tables NotRequired
Phase 2 Shift Tables N/A Event Tables NotRequired

Response Factors:

Bag Methane = 1.05

Pre Test Remarks:

TEST #1 AS RECEIVED

Post Test Remarks:

Non-Critical Information:

Begin Odo = 86160 Idle RPM =
Test end Odometer = 86197 Driveability = Good
Engine performance = No Problem Brakes = No Problem
Transmission = No Problem Vehicle stalls = None

SUMMARY REPORT

Test = US06 90Idle US06 Test Id = ONT50888 TestNet Number = 2964
 Options = CVS Bag Sec ShowTol Methane MethaneRF
 Test Init Start = June 16, 2020 12:21:49 Fuel Calculation Type = Diesel/EPA Calcs Idle RPM =

Driver = **REDACTED**

MASS calculated by DF method

Phase 1	Bag 2	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	NMHC+NOX (wRF)	FE (mpg)
Range		10.0	50.0	30.0	2.00	10.0			
Sample		2.980	0.332	0.877	1.2335	2.221			
Range		10.0	50.0	30.0	2.00	10.0			
Ambient		3.122	0.544	-0.078	0.0635	2.174			
Net Conc.		0.146	0.000	0.877	1.1759	0.248	0.0000		
Grams/ph.		0.0128	0.0000	0.2307	3286.4382	0.0252	0.0000		24.8187
Grams/mi		0.0016	0.0000	0.0288	409.7912	0.0031	0.0000		

----- Dyno Information -----

Inertia = 5500

Inertia Units = lb

Dynamometer will be set manual

Dyno Coefficient Units = 2

Road Load A = 13.93

Road Load B = 0.4178

Road Load C = 0.02593

Use Augmented Braking System? =

CVS Bag report
 MASS calculated by DF method

Phase 1	Bag 2	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	NMHC+NOX (wRF)	FE (mpg)
Range		10.0	50.0	30.0	2.00	10.0			
Sample		2.980	0.332	0.877	1.2335	2.221			
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Grams/ph.		0.0128	0.0000	0.2307	3286.4382	0.0252	0.0000		24.8187
Grams/mi		0.0016	0.0000	0.0288	409.7912	0.0031	0.0000		

Test Info		Times Info	
Baro(inHg)	= 28.91	Phase Start	= 12:47:11
Temp(F)	= 80.3	Phase Finish	= 12:57:12
Tdew(F)	= 47.3	Analysis End	= 13:02:21
Rhum(%)	= 32.8		
Ahum(gr/lb)	= 51.4	Elapsed (sec)	= 600.6
NOX Factor	= 0.9001	Bag Fill (sec)	= 601.0
		Bag Anl (sec)	= 309.1
Vmix(ft3 20 C)	= 5393.48	Drv Err (sec)	= 0.0
Dilu. Factor	= 10.8604	Crank Time	= 0.6
Dist(mi)	= 8.0198		

Legend
 * denotes Unstable Reading
 (wRF) denotes with Response Factor
 (woRF) denotes without Response Factor

DATA VALIDATION

PARAMETER DESCRIPTION	VALUE OF PARAMETER	LIMIT OF PARAMETER
Temperature	VALID	68 - 86 (degF)
Barometer	VALID	26.99 - 33.0001 (inHg)
Dew Point	VALID	-20 - 200 (degF)
Absolute Humidity	VALID	0 - 150 (gr/lb)
Crank Time	VALID	5 (sec)
Restart Attempts	VALID	1
Pretest Soak Time	VALID	12 - 36 (hr)
Phase Length	VALID	2 (%)
Distance	VALID	2 (%)
Test Hold Conditions	VALID	60 (sec)
Leak Check	VALID	1
Bag Analysis Time	VALID	1200 (sec)
Bag Fill Time	VALID	5 (sec)
Ambient Bag Readings	VALID	THC -0.55 - 10 (ppm) CO -0.55 - 15 (ppm) NOX -0.55 - 2 (ppm) CO2 350 - 850 (ppm) CH4 -0.55 - 10 (ppm)
Sample Bag Readings	VALID	THC -0.55 (ppm) CO -0.55 (ppm) NOX -0.55 (ppm) CO2 350 (ppm) CH4 -0.55 (ppm)
Bag Read Sequence	VALID	Stabilization Time (T2) 10 (sec) Integration Time (T3) 3 (sec) Stability Time Out (T4) 30 (sec) Stability Chk Tolerance 2 (%)
Bag Zero/Span Sequence	VALID	Pre-Bag Z/S Offset 25 (%) Pre-Bag Zero Drift 1 (%) Post-Bag Z/S Drift 2 (%) Stabilization Time (T2) 10 (sec) Integration Time (T3) 3 (sec) Stability Time Out (T4) 30 (sec) Stability Chk Tolerance 2 (%)
Hot Soak Length	VALID	
Analyzer Overscale	VALID	10 (sec)
Venturi Inlet Temperature	VALID	32 - 300 (degF)

Printed on: Tue June 16, 2020 13:05 BAG Zero/Span Results
 * Single Roll Dyno Configuration *

Bag Pair 2 Zero/Span Concentrations (Offset Limit = 25.0% ReZero Limit = 1.0%)

Samp	Gas	Range	Fullscale	Zero	Offset	Std Dev	Spec	Span	Offset	Std Dev	Rezero	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.456	0.91	0.09169	46.352	46.323	-0.06	0.03260	-0.083	-0.17	0.06581	PASS
BAG	CO2	(2)	2.00%	0.0008	0.04	0.01015	1.8733	1.8739	0.03	0.05115	0.0008	0.04	0.00784	PASS
BAG	THC	(1)	10.0ppm	0.185	1.85	0.01472	9.382	9.378	-0.04	0.04399	-0.014	-0.14	0.01575	PASS
BAG	NOX	(2)	30.0ppm	0.192	0.64	0.26440	28.000	28.058	0.19	0.35443	-0.109	-0.36	0.15574	PASS
BAG	CH4	(1)	10.0ppm	0.180	1.80	0.06073	9.368	9.384	0.15	0.11070	-0.004	-0.04	0.10192	PASS

Bag Pair 2 Post Bag Check (Drift Limit = 2.0%)

Samp	Gas	Range	Fullscale	Zero	Drift	Std Dev	Spec	Span	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.030	0.06	0.03036	46.352	46.325	-0.05	0.05067	PASS
BAG	CO2	(2)	2.00%	0.0021	0.11	0.00855	1.8733	1.8811	0.39	0.05970	PASS
BAG	THC	(1)	10.0ppm	-0.001	-0.01	0.01169	9.382	9.389	0.07	0.01414	PASS
BAG	NOX	(2)	30.0ppm	-0.103	-0.34	0.18693	28.000	27.995	-0.02	0.29981	PASS
BAG	CH4	(1)	10.0ppm	-0.001	-0.01	0.07404	9.368	9.372	0.03	0.09572	PASS