

Test = US06 90Idle US06
 Options = CVS Bag Dil Sec ShowTo1 Methane ModalMethane MethaneRF

Test Init Start = April 20, 2021 13:09:26 Test Start = April 20, 2021 13:26:41
 Posttest Completed At = April 20, 2021 13:57:36 Test Finish = April 20, 2021 13:48:34
 Hot Soak Start Time = April 19, 2021 16:10:00

Personnel Information::
 Driver = REDACTED Operator = REDACTED
 Requestor = REDACTED Supervisor = REDACTED

Vehicle Information:
 VIN = REDACTED Cert Tracking ID = 3029-ECRXT03.05PV-862
 Vehicle Model = RAM 1500 Model Year = 2014
 Engine Family = ECRXT03.05PV / Eng. Disp. = 3.0L
 Ignition Status = No Transmission =
 Automatic = 1 Idle RPM =
 Sample Delay =

Vehicle Conditions:
 Soak Start Time: = APR 19, 2021 16:10 Ambient Limit Type = OTHER7

Test Specifications:
 TO-Number = W0110 CVS BulkStream Flow : = 2) 350 scfm
 TestNet Number = 3029

Dynamometer:
 Inertia = 6000 (1b) /
 Road Load B = 0.0313 Road Load A = 10.38 (lbs) /
 Road Load C = 0.03565 /

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 = 107254 Idle RPM =
 Test end Odometer = 107270 Driveability = Good
 Engine performance = No Problem Brakes = No Problem
 Transmission = No Problem Vehicle stalls = None

AD QUALITY ASSURANCE

REDACTED

INSPECTED BY: _____

DATE: 4-21-21

COMMENTS: Okay

SUMMARY REPORT


Test = US06 90Idle US06 Test Id = ONT52198 TestNet Number = 3029
 Options = CVS Bag Dil Sec ShowTol Methane ModalMethane MethaneRF
 Test Init Start = April 20, 2021 13:09:26 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	4.00	10.0			
Sample		4.519	0.244	5.279	2.0108	2.143			
Range		10.0	50.0	30.0	4.00	10.0			
Ambient		4.923	0.652	0.135	0.0820	2.237			
Net Conc.		0.335	0.000	5.164	1.9411	0.242	0.0820		
Modal Corr.		0.0008	0.0001	0.0027	10.6257	0.0004	0.0004		
Grams/ph.		0.0183	0.0001	0.8144	3237.7380	0.0151	0.0047		25.1873
Grams/mi		0.0023	0.0000	0.1016	403.8953	0.0019	0.0006		

----- Dyno Information -----
 Inertia = 6000
 Inertia Units = lb
 Dynamometer will be set manually = False
 Dyno Coefficient Units = 2
 Road Load A = 10.38
 Road Load B = 0.0313
 Road Load C = 0.03565
 Use Augmented Braking System? = False

MODE NO.	MODE TYPE	TEST TIME sec	MODE TIME sec	DIST mi	SAMPLE POINT	DILUTE CONCENTRATIONS					CVS VOLUME		MODAL			GRAMS			F.E. mpg	D/V	
						THC ppmC	CO ppm	NOX ppm	CO2 %	CH4 ppmC	ft3	20	C	THC	CO	NOX	CO2	CH4	NMHC wRF		
PHASE One MODAL SUMMARY																					
	IDLE			0.240	DIL						340.84			0.005	0.00	0.064	142.6	0.015	0.000	0.79	0.0
	ACCEL			2.054	DIL						901.52			0.012	0.00	0.176	790.2	0.039	0.000	26.45	0.0
	CRUISE			4.689	DIL						1403.19			0.014	0.00	0.297	1636.8	0.056	0.000	29.15	0.0
	DECEL			1.033	DIL						573.25			0.007	0.00	0.290	591.2	0.023	0.000	17.78	0.0
	TOTAL			8.016	DIL						3218.79			0.038	0.00	0.827	3160.8	0.133	0.000	25.81	0.0



QUALITY ASSURANCE
 REDACTED

INSPECTED BY: _____

DATE: 4-21-21

COMMENTS: Okay

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 (ppg)	Test Info	Times Info
Range		10.0	50.0	30.0	4.00	10.0				Baro(inHg) = 28.86	Phase Start = 13:38:34
Sample		4.519	0.244	5.279	2.0108	2.143				Temp(F) = 78.3	Phase Finish = 13:48:34
Range		10.0	50.0	30.0	4.00	10.0				Tdew(F) = 48.6	Analysis End = 13:53:40
Ambient		4.923	0.652	0.135	0.0820	2.237				Rhum(%) = 35.3	
Net Conc.		0.335	0.000	5.164	1.9411	0.242	0.0820			Ahum(gr/lb) = 52.5	Elapsed (sec) = 600.5
Modal Corr.		0.0008	0.0001	0.0027	10.6257	0.0004	0.0004			NOX Factor = 0.9044	Bag Fill (sec)= 601.0
Grams/ph.		0.0183	0.0001	0.8144	3237.7380	0.0151	0.0047	25.1873		Vmix(ft3 20 C) = 3208.19	Bag Anl (sec) = 305.6
Grams/mi		0.0023	0.0000	0.1016	403.8953	0.0019	0.0006			Dilu. Factor = 6.6624	Drv Err (sec) = 0.0
										Dist(mi) = 8.0163	Crank Time = 0.5

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)
Bag Zero/Span Sequence	VALID	Stability Chk Tolerance 2 (%)
		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	10 (sec)
Analyzer Overscale	VALID	32 - 300 (degF)
Venturi Inlet Temperature	VALID	

Printed on: Tue April 20, 2021 13:57 * 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	0.395	0.79	0.05742	47.235	47.223	-0.02	0.03958	-0.051	-0.10	0.06204	PASS
BAG	CO2	(3)	4.00%	0.0014	0.04	0.01120	3.7398	3.7481	0.21	0.04938	0.0029	0.07	0.00608	PASS
BAG	THC	(1)	10.0ppm	0.141	1.41	0.02360	9.355	9.382	0.27	0.04493	-0.027	-0.27	0.02447	PASS
BAG	NOX	(2)	30.0ppm	0.582	1.94	0.31916	28.153	28.145	-0.03	0.32508	-0.051	-0.17	0.22901	PASS
BAG	CH4	(1)	10.0ppm	0.165	1.65	0.07660	9.219	9.220	0.00	0.08426	-0.002	-0.02	0.07984	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	-0.107	-0.21	0.08096	47.235	47.209	-0.05	0.04776	PASS		
BAG	CO2	(3)	4.00%	0.0034	0.09	0.00344	3.7398	3.7470	0.18	0.05359	PASS		
BAG	THC	(1)	10.0ppm	-0.016	-0.16	0.03452	9.355	9.295	-0.60	0.04150	PASS		
BAG	NOX	(2)	30.0ppm	0.053	0.18	0.22307	28.153	27.895	-0.86	0.27647	PASS		
BAG	CH4	(1)	10.0ppm	0.004	0.04	0.08243	9.219	9.216	-0.04	0.08849	PASS		