



Application for Certification
Part 1

2027 ModelYear

Durability Group: VCRXGPGNNF06
Evaporative Familie(s): VCRXR0183RR0, VCRXR0225RR0

Test Group: VCRXT03.6562

Four Stroke, Otto Cycle, Gasoline Fueled, Ported FI

Ceramic Monolith Pt, Pd, Rh Close Coupled Catalyst

3.6 Liter V-6

LDT4

Applicable Standards:

50 State - Tier 4 Interim BIN 50

Vehicles Covered:

RAM 1500, 4X4

Vehicle(s) Run:

VID 1 config., Vehicle ID V5DT67380 (Exh.)

VID 2 config., Vehicle ID V7DS61972 (Evap)

VID 3 config., Vehicle ID V7DS61975 (Evap)

For Questions, Darnell Jones 248.512.3923 Gary J. Arvan 248.221.9461
All testing completed – Unconditional Cert request



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Section 1 Correspondence and Communication

For questions dealing with the Part I application for this Test Group contact:

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For a complete listing of all Correspondence and Communication Information for FCA US LLC, please see:
"Common Section Book - Section 1 Correspondence and Communication"



Section 2 **Durability Group Description**

Durability Group Name: VCRXGPGNNF06

For a complete description of the Durability Group Description please see:
"Common Section Book - Section 2. Durability Group Description"



Section 3 Evaporative/Refueling Family Description

Evaporative/Refueling Family Name(s): VCRXR0183RR0
 VCRXR0225RR0

For a complete description of the Evaporative/Refueling Family Description please see:
"Common Section Book - Section 3. Evaporative/Refueling Family Description "

For ORVR Agency Review Sign Off please see:
"Common Section Book - Section 16. Agency Approvals"



Section 4 Durability Procedure Description

Durability Group: VCRXGPGNNF06

Durability Provision Statement:

Based on FCA US LLC 's good engineering judgement, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards.

For a complete description of the Durability Procedure please see:

"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.

Indicate whether additive or multiplicative DF's were used.

List all DF's calculated at both full and intermediate useful life

And applicable standards (test results and vehicle description).

Aged Components were used.

N/A

EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)

CARB - Reference Cert Review Sheet

Evaporative/Refueling Family:

VCRXR0183RR0

VCRXR0225RR0

For a complete description of the Durability Procedure please see:

"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.

Indicate whether additive or multiplicative DF's were used.

List all DF's calculated at both full and intermediate useful life

And applicable standards (test results and vehicle description).

Yes - Bench Aging

Additive

EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)

CARB - Reference Cert Review Sheet



Section 5 **Test Group Description**

Test Group Name:	VCRXT03.6562
Engine displacements covered:	3.6L
Arrangement and number of cylinders:	V-6
Vehicle class(es) covered:	LDT4
Emission standards class:	BIN 50
AB71 Qualified Vehicles:	No

Certification Summary Information Report

Manufacturer	FCA US LLC	Manufacturer Code	CRX
Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/27/2026 02:46:00 PM
Model Year	2027		

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
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Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Multipoint/sequential fuel injection	No

Drive Source #2: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	No

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	LEV
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VCRXGPGNNF06	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VCRXT03.6561
Test Group OBD Compliance Level	Partial - with deficiencies and penalty	Number of Test Group OBD Deficiencies	6
OBD Deficiencies Comments	SAE J1979-2 Implementation, Misfire Detection, EVAP Purge Flow Monitor IUMPR, EVAP Leak Detection Monitor IUMPR, Recent Operation Counters Reset, Adaptive Cruise Control and Parallel Park SystemsDefault Action		
Mfr Test Group Comments	T4iBIN50 E10 - City Litmus Value: 16.3; City Litmus Threshold: 16.0; Hwy Litmus Value: 17.4; Hwy Litmus Threshold: 18.9		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	04/13/2026 07:01:53 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	hdpe/co-ex				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	183	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	0				
Mfr Evaporative/Refueling Family Comments	--						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VCRXR0183RR0-LF1	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
FCA US LLC	12 - RAM	925 - 1500 4X4	Federal	4-Wheel Drive	Automatic	8	Yes
FCA US LLC	12 - RAM	925 - 1500 4X4	California + CAA Section 177 states	4-Wheel Drive	Automatic	8	Yes
Engine Description							
Hybrid Type	IC Engine/Electric Motor			Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition			Mfr Engine Description	--		
Engine Block Arrangement	V-shaped engine			Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No			Oil Viscosity/Classification	SAE 0W-20		
Number of Cylinders/Rotors	6			Mechanically Variable Compression Ratio Indicator	N		

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
THREE WAY CATALYST			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			
Engine Configuration Number 1			
Engine Displacement (liters)	3.6	Engine Rated Horsepower	305
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	0
Air Aspiration Device Configuration	--	Charge Air Cooler Type	N/A
Air Aspiration Drive Method(s)	--		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Cam Phaser		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group		VCRXT03.6562		Evaporative/Refueling Family		VCRXR0183RR0				
Official Test Numbers										
Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	TCRX10093348	TCRX10093350	TCRX10093351	TCRX10093347	TCRX10093349	16.3	16.1	17.5	19.0	1.0
Electricity	--	--	--	--	--	--	--	--	--	--
SFTP LEV-III Official Test Numbers										
Test Group Fuel	FTP		US06		SC03					
Gasoline	TCRX10093348		TCRX10093350		TCRX10093351					
Hybrid Electric Vehicle And Fuel Cell Information										
Rechargable Energy Storage System	Battery(s)		Rechargable Energy Storage System, if Other		--					
Battery Type	Lithium Ion		Number of Battery Packs		1					
Total Voltage of Battery Packs	48		Battery Energy Capacity		9.80					
Battery Specific Energy	42.0		Battery Charger Type		On-Board					
Number of Capacitors	--		Capacitor Rating (In Farads)		--					
Mfr Capacitor Comments	--									
Hydraulic System Description	--									
Regenerative Braking Type	Electrical Regen Brake		Driver Controlled Regenerative Braking		No					
Regenerative Braking Source	Both									
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	1		Rated Motor/Generator Power		11					
Motor/Generator Type 1	AC Induction									
Mfr Fuel Cell Description	--									
Fuel Cell On-Board H2 Storage Capacity (kg)	--		Usable H2 Fill Capacity (kg)		--					
Mfr Hybrid Electric/ Electric Vehicle Comments	--									

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
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Emission Data Vehicle Information

Vehicle ID / Configuration	V5DT67380 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	TCRXT03.6565	Original Evaporative/Refueling Family	TCRXR0225RR0
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	1500 4X4
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AA-4000	Rated Horsepower	305
Displacement (liters)	3.6		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Equipped, not shifted by SIL	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	5199	Equivalent Test Weight (pounds)	5500
GVWR (lbs)	6900	N/V Ratio	24.9
Axle Ratio	3.55		
Transmission Type	Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family		VCRXR0183RR0	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	52.58	0.3747	0.03789	19.19	0.4039	0.0344	22.1	
Cold CO	57.84	0.4122	0.04168	9.44	0.3924	0.03736	N/A	
US06	52.58	0.3747	0.03789	19.19	0.4039	0.0344	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		callout: 26DA-T03.6565-1						

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test #	TCRX10093347	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	01/30/2026	Fuel	Gasoline
Fuel Batch ID	11466	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5503	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.052	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.6	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	585.16	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	2.481892	--	
FE BAG 1 (Bag 1 Fuel Economy)	14.66	14.66	
CH4 BAG 1 (Bag 1 Methane)	0.054882	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.700917	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	18.92	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.863	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	441.96	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.016329	--	
FE BAG 2 (Bag 2 Fuel Economy)	19.59	19.59	
CH4 BAG 2 (Bag 2 Methane)	0.005029	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.000785	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	2.0768	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.589	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	416	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.120365	--	
FE BAG 3 (Bag 3 Fuel Economy)	20.82	20.82	
CH4 BAG 3 (Bag 3 Methane)	0.006923	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.005197	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-47.3	--	
METHANE (CH4 - Methane)	0.01589	--	
CO (Carbon Monoxide)	0.556326	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.875	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.747	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.226	--	
MFR FE (Manufacturer Fuel Economy)	18.6	18.6	
NOX (Nitrogen Oxide)	0.019371	--	
HC-NM (Non-methane Hydrocarbon)	0.1338	--	
NMOG (Non-methane organic gases)	0.1472	--	

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family			VCRXR0183RR0				
		WATT-HRS (Watt Hours)		-26.444			--					
		Test Result Name		Unrounded Test Result			Verify Calculated CREE/OPT-CREE					
		Carbon-Related Exhaust Emissions		466			--					
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		464.535499			--					
Manufacturer Test Comments		26DA-T03.6565-1 city 150k Auto BSG WLTP CCO; NECFR = -0.127%; Corrected CO2/FE for NEC										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	0.56	--	--	--	0	1	0.6	12.5	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	HC-NM	0.13	--	--	--	0	1	0.1	0.4	Pass
CA	50,000 miles	Other	CO	0.56	--	--	--	0	1	0.6	12.5	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test #	TCRX10093348	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/03/2026	Fuel	Gasoline
Fuel Batch ID	11473	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5529	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.943	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.607	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	437.322792	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.958724	--	
FE BAG 1 (Bag 1 Fuel Economy)	19.88	19.88	
CH4 BAG 1 (Bag 1 Methane)	0.015507	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.049919	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-29.9376	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.875	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	437.322792	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.25132	--	
FE BAG 2 (Bag 2 Fuel Economy)	19.88	19.88	
CH4 BAG 2 (Bag 2 Methane)	0.005482	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	26.9412	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.594	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	405.997905	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.489217	--	
FE BAG 3 (Bag 3 Fuel Economy)	21.45	21.45	
CH4 BAG 3 (Bag 3 Methane)	0.00979	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.011189	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-49.94	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.866	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	405.997905	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.047613	--	
FE BAG 4 (Bag 4 Fuel Economy)	21.45	21.45	
CH4 BAG 4 (Bag 4 Methane)	0.004607	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	19.7824	--	
METHANE (CH4 - Methane)	0.008485	--	
CO (Carbon Monoxide)	0.403116	--	

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.737	--
	DT-EER (Drive Trace Energy Economy Rating)	-1.14	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.302	--
	MFR FE (Manufacturer Fuel Economy)	20.7	20.7
	NOX (Nitrogen Oxide)	0.009013	--
	N2O (Nitrous Oxide)	0.000406	--
	HC-NM (Non-methane Hydrocarbon)	0.012192	--
	NMOG (Non-methane organic gases)	0.01342	--
	PM (Particulate Matter)	0.00028	--
	HC-TOTAL (Total Hydrocarbon)	0.02	--
	WATT-HRS (Watt Hours)	-33.1188	--
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	420	420	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	419.467606	--	
Manufacturer Test Comments	26DA-T03.6565-1 city 150k Auto BSG WLTP cE10; NECFR=-0.135%; Corrected CO2/FE for NEC; Bag1=Bag2=UDDS1, Bag3=Bag4=UDDS2;		

Certification Summary Information Report

Test Group		VCRXT03.6562				Evaporative/Refueling Family				VCRXR0183RR0		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.40	--	--	--	0	1	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	1.22	--	--	--	0	1	1.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	420	--	--	--	0	1	420	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0085	--	--	--	0	1	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0004	--	--	--	0	1	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0134	--	--	--	0	1	0.013	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0224	--	--	--	--	--	0.022	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0128	--	--	--	0	1	0.013	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0090	--	--	--	0	1	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0003	--	--	--	0	1	0.000	0.003	Pass
CA	150,000 miles	Other	CO	0.40	--	--	--	0	1	0.4	1.7	Pass
CA	150,000 miles	Other	CO-COMP	1.22	--	--	--	0	1	1.2	4.2	Pass
CA	150,000 miles	Other	METHANE	0.0085	--	--	--	0	1	0.008	0.030	Pass
CA	150,000 miles	Other	N2O	0.0004	--	--	--	0	1	0.000	0.010	Pass
CA	150,000 miles	Other	NMOG	0.0134	--	--	--	0	1	0.013	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0224	--	--	--	--	--	0.022	0.050	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0128	--	--	--	0	1	0.013	0.030	Pass
CA	150,000 miles	Other	NOX	0.0090	--	--	--	0	1	0.009	999.999	Pass
CA	150,000 miles	Other	PM	0.0003	--	--	--	0	1	0.000	0.003	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test #	TCRX10093349	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/03/2026	Fuel	Gasoline
Fuel Batch ID	11473	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	5544	Diesel Adjustment Factor Usage	--
4WD Test Dyno	No		
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
ACT-DISTANCE (Actual Distance Driven (miles))	10.265	--
METHANE (CH4 - Methane)	0.003764	--
CO (Carbon Monoxide)	0.272193	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-5.342	--
DT-EER (Drive Trace Energy Economy Rating)	-0.561	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.381	--
MFR FE (Manufacturer Fuel Economy)	27.5	27.5
NOX (Nitrogen Oxide)	0.001615	--
HC-NM (Non-methane Hydrocarbon)	0.003291	--
NMOG (Non-methane organic gases)	0.003391	--
HC-TOTAL (Total Hydrocarbon)	0.006917	--
WATT-HRS (Watt Hours)	-4.6508	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	317	317

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	316.641274	--

Manufacturer Test Comments 26DA-T03.6565-1 hwy 150k Auto BSG WLTP cE10; NECFR=-0.037%; Corrected CO2/FE for NEC

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family					VCRXR0183RR0		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	317	--	--	--	0	1	317	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0034	--	--	--	0	1	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0050	--	--	--	--	--	0.005	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0016	--	--	--	0	1	0.002	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0034	--	--	--	0	1	0.003	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0050	--	--	--	--	--	0.005	0.050	Pass
CA	150,000 miles	Other	NOX	0.0016	--	--	--	0	1	0.002	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test #	TCRX10093350	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/04/2026	Fuel	Gasoline
Fuel Batch ID	11473	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5592	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	8.022	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.789	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	710.122719	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	5.106165	--	
FE BAG 1 (Bag 1 Fuel Economy)	12.14	12.14	
CH4 BAG 1 (Bag 1 Methane)	0.015524	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.006168	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-21.59388	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.234	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	469.783229	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	2.808218	--	
FE BAG 2 (Bag 2 Fuel Economy)	18.39	18.39	
CH4 BAG 2 (Bag 2 Methane)	0.006437	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.004539	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	5.89732	--	
METHANE (CH4 - Methane)	0.008463	--	
CO (Carbon Monoxide)	3.320554	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.052	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.212	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.587	--	
MFR FE (Manufacturer Fuel Economy)	16.5	16.5	
NOX (Nitrogen Oxide)	0.006111	--	
HC-NM (Non-methane Hydrocarbon)	0.004758	--	
NMOG (Non-methane organic gases)	0.004902	--	
PM (Particulate Matter)	0.001125	--	
HC-TOTAL (Total Hydrocarbon)	0.012913	--	
WATT-HRS (Watt Hours)	-12.408	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	529	--	

Certification Summary Information Report

Test Group		VCRXT03.6562				Evaporative/Refueling Family				VCRXR0183RR0		
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		523.658747		--						
Manufacturer Test Comments		26DA-T03.6565-1 us06 rerun 150k Auto BSG WLTP cE10; NECFR=-0.075%; Corrected CO2/FE for NEC										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	3.32	--	--	--	0	1	3.3	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0049	--	--	--	0	1	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0061	--	--	--	0	1	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0011	--	--	--	0	1	0.001	0.006	Pass
CA	150,000 miles	Other	CO	3.32	--	--	--	0	1	3.3	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0049	--	--	--	0	1	0.005	999.999	Pass
CA	150,000 miles	Other	NOX	0.0061	--	--	--	0	1	0.006	999.999	Pass
CA	150,000 miles	Other	PM	0.0011	--	--	--	0	1	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test #	TCRX10093351	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/04/2026	Fuel	Gasoline
Fuel Batch ID	11473	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5608	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	3.591	--	
METHANE (CH4 - Methane)	0.004675	--	
CO (Carbon Monoxide)	0.41213	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1656	--	
DT-EER (Drive Trace Energy Economy Rating)	0.0027	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6664	--	
MFR FE (Manufacturer Fuel Economy)	16.1	16.1	
NOX (Nitrogen Oxide)	0.004616	--	
HC-NM (Non-methane Hydrocarbon)	0.000449	--	
NMOG (Non-methane organic gases)	0.000462	--	
HC-TOTAL (Total Hydrocarbon)	0.004954	--	
WATT-HRS (Watt Hours)	6.556	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	541	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	540.201736	--	
Manufacturer Test Comments	26DA-T03.6565-1 sc03 rerun 150k Auto BSG WLTP cE10; NECFR=0.088%; Corrected CO2/FE for NEC		

Certification Summary Information Report

Test Group		VCRXT03.6562				Evaporative/Refueling Family				VCRXR0183RR0		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.41	--	--	--	0	1	0.4	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0005	--	--	--	0	1	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0046	--	--	--	0	1	0.005	999.999	Pass
CA	150,000 miles	Other	CO	0.41	--	--	--	0	1	0.4	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0005	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	NOX	0.0046	--	--	--	0	1	0.005	999.999	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
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Emission Data Vehicle Information

Vehicle ID / Configuration	V7DS61975 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	JCRXT03.65PB	Original Evaporative/Refueling Family	JCRXR0183RPA
Original Test Vehicle Model Year	2018		

Vehicle Model

Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	1500 4X4
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline, Ethanol

Hybrid Indicator	No		
Multiple Fuel Storage	Fuels Stored Together	Multiple Fuel Combustion	Fuels Combusted Together
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AA-375	Rated Horsepower	305
Displacement (liters)	3.6		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5292	Equivalent Test Weight (pounds)	5500
GVWR (lbs)	6800	N/V Ratio	27.7
Axle Ratio	3.92		
Transmission Type	Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	66.55	0.0068	0.04572	18.55	0.4592	0.03779	24.2
US06	66.55	0.0068	0.04572	18.55	0.4592	0.03779	N/A

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	Callout: 18EV-T03.65PB-2; Evap; LVW								
Test #	JCRX10049480	Test Procedure	27 - California fuel 2-day evap						
Exhaust Test # for this Evap Test	JCRX10049477	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	06/16/2017	Fuel	Gasoline						
Fuel Batch ID	10465	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	CTC								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4048	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.40651</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.40651	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.40651	--							
Manufacturer Test Comments									
Callout: 18EV-T03.65PB-2; Cert 2-Day/Evap (cE10) Hot_Soak_HC_(g) = 0.03134, Diurnal (g) = 0.34506; Total =(0.3764 X 1.08) = 0.40651 (g)									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.4065	0.0057	0.412	0.500	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.4065	0.0057	0.412	0.500	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Test #	JCRX10049481	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	JCRX10049478	Test Fuel Type	46 - CARB LEV3 E10 Regular
Test Date	06/23/2017	Fuel	Gasoline
Fuel Batch ID	10465	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4155	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.30129	--

Manufacturer Test Comments

Callout: 18EV-T03.65PB-2; Cert 3-Day/Evap (cE10) Hot_Soak_HC_(g) = 0.04999 , Diurnal (g) = 0.22898; Total =(0.27897 X 1.08) = 0.30129 (g)

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.3013	0.0090	0.310	0.500	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.3013	0.0090	0.310	0.500	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0						
Test #	JCRX10049482	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	JCRX10049478	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	06/23/2017	Fuel	Gasoline						
Fuel Batch ID	10465	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	CTC								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4138	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.00012</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00012	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00012	--							
Manufacturer Test Comments									
Callout: 18EV-T03.65PB-2; Cert 3-Day/Evap (cE10) RL =0.00012 g/mile									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass	

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0						
Test #	JCRX10049483	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	JCRX10049479	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	07/08/2017	Fuel	Gasoline						
Fuel Batch ID	10465	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	CTC								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	4298	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value</td></tr><tr><td>HC (Hydrocarbon for Running Loss and ORVR)</td><td>0.03</td><td>--</td></tr></table>			Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC (Hydrocarbon for Running Loss and ORVR)	0.03	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC (Hydrocarbon for Running Loss and ORVR)	0.03	--							
Manufacturer Test Comments	Callout: 18EV-T03.65PB-2; Cert ORVR(cE10)=0.030 g/gallons								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.030	0.000	0.03	0.20	Pass	
CA	150,000 miles	Other	HC	0.030	0.000	0.03	0.20	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0						
Test #	JCRX10074520	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	03/10/2017	Fuel	Gasoline						
Fuel Batch ID	--	Fuel Calibration Number	--						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Sterling Performance								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	0	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0058</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0058	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0058	--							
Manufacturer Test Comments									
Test run on a rig with aged components (not actual vehicle)									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.0058	0.0000	0.006	0.020	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.0058	0.0000	0.006	0.020	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Fuel Properties			
Fuel Batch ID	11473	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	12/28/2026
Fuel Batch Calibration Effective Date	12/28/2026	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.827	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.431	Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	10465	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/13/2017
Fuel Batch Calibration Effective Date	06/13/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.824	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17987
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--
Fuel Batch ID	11466	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	12/03/2025
Fuel Batch Calibration Effective Date	12/03/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.826	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	0
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.426	Fuel Carbon Mass Fraction (E10)	0.826
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family		VCRXR0183RR0		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure		California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	1	0	4.2
150,000 miles	CREE	--	--	--	--	--	1	0	999
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Other		
Fuel		Gasoline			Test Procedure		California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	1	0	4.2
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family			VCRXR0183RR0		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050	
150,000 miles	NOX	--	--	--	--	--	1	0	999.999	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	1	0	999.9	
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999	
150,000 miles	NOX	--	--	--	--	--	1	0	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
50,000 miles	CO	--	--	--	--	--	1	0	12.5	
150,000 miles	HC-NM	--	--	--	--	--	1	0	0.4	

Certification Summary Information Report

Test Group	VCRXT03.6562			Evaporative/Refueling Family			VCRXR0183RR0		
Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other		
Fuel	Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel	Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel	Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family			VCRXR0183RR0	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	1	0	12.5

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	1	0	999
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050
150,000 miles	NOX	--	--	--	--	--	1	0	999.999

Evaporative/Refueling Standards

Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result		Std	Add DF	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--		0.05	0.000	

Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name		Rounded Result		Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV		--		0.500	0.0090

Certification Summary Information Report

Test Group		VCRXT03.6562		Evaporative/Refueling Family		VCRXR0183RR0	
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.000		
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000		
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0090		
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0057		
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0057		

Certification Summary Information Report

Test Group		VCRXT03.6562		Evaporative/Refueling Family		VCRXR0183RR0	
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.000		
Evaporative/Refueling Family		VCRXR0183RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000		

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family	VCRXR0183RR0
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family		VCRXR0183RR0
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family		VCRXR0183RR0
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family		VCRXR0183RR0
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	

Certification Summary Information Report

Manufacturer	FCA US LLC	Manufacturer Code	CRX
Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/27/2026 02:46:00 PM
Model Year	2027		

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
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Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Multipoint/sequential fuel injection	No

Drive Source #2: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	No

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	LEV
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VCRXGPGNNF06	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VCRXT03.6561
Test Group OBD Compliance Level	Partial - with deficiencies and penalty	Number of Test Group OBD Deficiencies	6
OBD Deficiencies Comments	SAE J1979-2 Implementation, Misfire Detection, EVAP Purge Flow Monitor IUMPR, EVAP Leak Detection Monitor IUMPR, Recent Operation Counters Reset, Adaptive Cruise Control and Parallel Park SystemsDefault Action		
Mfr Test Group Comments	T4iBIN50 E10 - City Litmus Value: 16.3; City Litmus Threshold: 16.0; Hwy Litmus Value: 17.4; Hwy Litmus Threshold: 18.9		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
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Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	04/02/2026 10:28:29 AM
Integrated ORVR?	Yes	Fuel(s)	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	hdpe/co-ex
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	222	Number of Primary Canisters	1
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	0
Mfr Evaporative/Refueling Family Comments	--		
Leak Family Details			
Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--
CARB Fuel Only (Rig) Test Comments	--		

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VCRXR0225RR0-LF1	50 State	0.02	--

Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
FCA US LLC	12 - RAM	925 - 1500 4X4	California + CAA Section 177 states	4-Wheel Drive	Automatic	8	Yes
FCA US LLC	12 - RAM	925 - 1500 4X4	Federal	4-Wheel Drive	Automatic	8	Yes

Engine Description			
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
THREE WAY CATALYST			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			
Engine Configuration Number 1			
Engine Displacement (liters)	3.6	Engine Rated Horsepower	305
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	0
Air Aspiration Device Configuration	--	Charge Air Cooler Type	N/A
Air Aspiration Drive Method(s)	--		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Cam Phaser		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group		VCRXT03.6562		Evaporative/Refueling Family		VCRXR0225RR0				
Official Test Numbers										
Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	TCRX10093348	TCRX10093350	TCRX10093351	TCRX10093347	TCRX10093349	16.3	16.1	17.5	19.0	1.0
Electricity	--	--	--	--	--	--	--	--	--	--
SFTP LEV-III Official Test Numbers										
Test Group Fuel	FTP	US06	SC03							
Gasoline	TCRX10093348	TCRX10093350	TCRX10093351							
Hybrid Electric Vehicle And Fuel Cell Information										
Rechargable Energy Storage System	Battery(s)		Rechargable Energy Storage System, if Other		--					
Battery Type	Lithium Ion		Number of Battery Packs		1					
Total Voltage of Battery Packs	48		Battery Energy Capacity		9.80					
Battery Specific Energy	42.0		Battery Charger Type		On-Board					
Number of Capacitors	--		Capacitor Rating (In Farads)		--					
Mfr Capacitor Comments	--									
Hydraulic System Description	--									
Regenerative Braking Type	Electrical Regen Brake		Driver Controlled Regenerative Braking		No					
Regenerative Braking Source	Both									
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	1		Rated Motor/Generator Power		11					
Motor/Generator Type 1	AC Induction									
Mfr Fuel Cell Description	--									
Fuel Cell On-Board H2 Storage Capacity (kg)	--		Usable H2 Fill Capacity (kg)		--					
Mfr Hybrid Electric/ Electric Vehicle Comments	--									

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
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Emission Data Vehicle Information

Vehicle ID / Configuration	V5DT67380 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	TCRXT03.6565	Original Evaporative/Refueling Family	TCRXR0225RR0
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	1500 4X4
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AA-4000	Rated Horsepower	305
Displacement (liters)	3.6		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Equipped, not shifted by SIL	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	5199	Equivalent Test Weight (pounds)	5500
GVWR (lbs)	6900	N/V Ratio	24.9
Axle Ratio	3.55		
Transmission Type	Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family		VCRXR0225RR0	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	52.58	0.3747	0.03789	19.19	0.4039	0.0344	22.1	
Cold CO	57.84	0.4122	0.04168	9.44	0.3924	0.03736	N/A	
US06	52.58	0.3747	0.03789	19.19	0.4039	0.0344	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		callout: 26DA-T03.6565-1						

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test #	TCRX10093347	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	01/30/2026	Fuel	Gasoline
Fuel Batch ID	11466	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5503	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.052	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.6	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	585.16	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	2.481892	--	
FE BAG 1 (Bag 1 Fuel Economy)	14.66	14.66	
CH4 BAG 1 (Bag 1 Methane)	0.054882	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.700917	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	18.92	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.863	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	441.96	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.016329	--	
FE BAG 2 (Bag 2 Fuel Economy)	19.59	19.59	
CH4 BAG 2 (Bag 2 Methane)	0.005029	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.000785	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	2.0768	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.589	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	416	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.120365	--	
FE BAG 3 (Bag 3 Fuel Economy)	20.82	20.82	
CH4 BAG 3 (Bag 3 Methane)	0.006923	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.005197	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-47.3	--	
METHANE (CH4 - Methane)	0.01589	--	
CO (Carbon Monoxide)	0.556326	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.875	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.747	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.226	--	
MFR FE (Manufacturer Fuel Economy)	18.6	18.6	
NOX (Nitrogen Oxide)	0.019371	--	
HC-NM (Non-methane Hydrocarbon)	0.1338	--	
NMOG (Non-methane organic gases)	0.1472	--	

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family				VCRXR0225RR0			
		WATT-HRS (Watt Hours)		-26.444		--						
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		466		--						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		464.535499		--						
Manufacturer Test Comments		26DA-T03.6565-1 city 150k Auto BSG WLTP CCO; NECFR = -0.127%; Corrected CO2/FE for NEC										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	0.56	--	--	--	0	1	0.6	12.5	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	HC-NM	0.13	--	--	--	0	1	0.1	0.4	Pass
CA	50,000 miles	Other	CO	0.56	--	--	--	0	1	0.6	12.5	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test #	TCRX10093348	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/03/2026	Fuel	Gasoline
Fuel Batch ID	11473	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5529	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.943	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.607	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	437.322792	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.958724	--	
FE BAG 1 (Bag 1 Fuel Economy)	19.88	19.88	
CH4 BAG 1 (Bag 1 Methane)	0.015507	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.049919	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-29.9376	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.875	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	437.322792	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.25132	--	
FE BAG 2 (Bag 2 Fuel Economy)	19.88	19.88	
CH4 BAG 2 (Bag 2 Methane)	0.005482	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	26.9412	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.594	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	405.997905	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.489217	--	
FE BAG 3 (Bag 3 Fuel Economy)	21.45	21.45	
CH4 BAG 3 (Bag 3 Methane)	0.00979	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.011189	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-49.94	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.866	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	405.997905	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.047613	--	
FE BAG 4 (Bag 4 Fuel Economy)	21.45	21.45	
CH4 BAG 4 (Bag 4 Methane)	0.004607	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	19.7824	--	
METHANE (CH4 - Methane)	0.008485	--	
CO (Carbon Monoxide)	0.403116	--	

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.737	--
	DT-EER (Drive Trace Energy Economy Rating)	-1.14	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.302	--
	MFR FE (Manufacturer Fuel Economy)	20.7	20.7
	NOX (Nitrogen Oxide)	0.009013	--
	N2O (Nitrous Oxide)	0.000406	--
	HC-NM (Non-methane Hydrocarbon)	0.012192	--
	NMOG (Non-methane organic gases)	0.01342	--
	PM (Particulate Matter)	0.00028	--
	HC-TOTAL (Total Hydrocarbon)	0.02	--
	WATT-HRS (Watt Hours)	-33.1188	--
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	420	420	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	419.467606	--	
Manufacturer Test Comments	26DA-T03.6565-1 city 150k Auto BSG WLTP cE10; NECFR=-0.135%; Corrected CO2/FE for NEC; Bag1=Bag2=UDDS1, Bag3=Bag4=UDDS2;		

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family					VCRXR0225RR0		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.40	--	--	--	0	1	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	1.22	--	--	--	0	1	1.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	420	--	--	--	0	1	420	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0085	--	--	--	0	1	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0004	--	--	--	0	1	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0134	--	--	--	0	1	0.013	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0224	--	--	--	--	--	0.022	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0128	--	--	--	0	1	0.013	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0090	--	--	--	0	1	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0003	--	--	--	0	1	0.000	0.003	Pass
CA	150,000 miles	Other	CO	0.40	--	--	--	0	1	0.4	1.7	Pass
CA	150,000 miles	Other	CO-COMP	1.22	--	--	--	0	1	1.2	4.2	Pass
CA	150,000 miles	Other	METHANE	0.0085	--	--	--	0	1	0.008	0.030	Pass
CA	150,000 miles	Other	N2O	0.0004	--	--	--	0	1	0.000	0.010	Pass
CA	150,000 miles	Other	NMOG	0.0134	--	--	--	0	1	0.013	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0224	--	--	--	--	--	0.022	0.050	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0128	--	--	--	0	1	0.013	0.030	Pass
CA	150,000 miles	Other	NOX	0.0090	--	--	--	0	1	0.009	999.999	Pass
CA	150,000 miles	Other	PM	0.0003	--	--	--	0	1	0.000	0.003	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0																																							
Test #	TCRX10093349	Test Procedure	3 - HWFE																																							
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																							
Test Date	02/03/2026	Fuel	Gasoline																																							
Fuel Batch ID	11473	Fuel Calibration Number	1																																							
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																							
Verify Test Lab ID	CTC																																									
E10 Evaporative Test Measurement Method	--																																									
Test Start Odometer Reading	5544	Odometer Units	M																																							
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																																							
State of Charge Delta	Yes																																									
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																							
Test Results																																										
<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr> </thead> <tbody> <tr> <td>ACT-DISTANCE (Actual Distance Driven (miles))</td><td>10.265</td><td>--</td></tr> <tr> <td>METHANE (CH4 - Methane)</td><td>0.003764</td><td>--</td></tr> <tr> <td>CO (Carbon Monoxide)</td><td>0.272193</td><td>--</td></tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-5.342</td><td>--</td></tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.561</td><td>--</td></tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-6.381</td><td>--</td></tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td><td>27.5</td><td>27.5</td></tr> <tr> <td>NOX (Nitrogen Oxide)</td><td>0.001615</td><td>--</td></tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td><td>0.003291</td><td>--</td></tr> <tr> <td>NMOG (Non-methane organic gases)</td><td>0.003391</td><td>--</td></tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td><td>0.006917</td><td>--</td></tr> <tr> <td>WATT-HRS (Watt Hours)</td><td>-4.6508</td><td>--</td></tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	ACT-DISTANCE (Actual Distance Driven (miles))	10.265	--	METHANE (CH4 - Methane)	0.003764	--	CO (Carbon Monoxide)	0.272193	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-5.342	--	DT-EER (Drive Trace Energy Economy Rating)	-0.561	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.381	--	MFR FE (Manufacturer Fuel Economy)	27.5	27.5	NOX (Nitrogen Oxide)	0.001615	--	HC-NM (Non-methane Hydrocarbon)	0.003291	--	NMOG (Non-methane organic gases)	0.003391	--	HC-TOTAL (Total Hydrocarbon)	0.006917	--	WATT-HRS (Watt Hours)	-4.6508	--
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HC-TOTAL (Total Hydrocarbon)	0.006917	--																																								
WATT-HRS (Watt Hours)	-4.6508	--																																								
<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td><td>317</td><td>317</td></tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	317	317																																	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																								
Carbon-Related Exhaust Emissions	317	317																																								
<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>316.641274</td><td>--</td></tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	316.641274	--																																	
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																								
Carbon dioxide	316.641274	--																																								
Manufacturer Test Comments	26DA-T03.6565-1 hwy 150k Auto BSG WLTP cE10; NECFR=-0.037%; Corrected CO2/FE for NEC																																									

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family					VCRXR0225RR0		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	317	--	--	--	0	1	317	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0034	--	--	--	0	1	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0050	--	--	--	--	--	0.005	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0016	--	--	--	0	1	0.002	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0034	--	--	--	0	1	0.003	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0050	--	--	--	--	--	0.005	0.050	Pass
CA	150,000 miles	Other	NOX	0.0016	--	--	--	0	1	0.002	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test #	TCRX10093350	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/04/2026	Fuel	Gasoline
Fuel Batch ID	11473	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	5592	Diesel Adjustment Factor Usage	--
4WD Test Dyno	No		
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	8.022	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.789	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	710.122719	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	5.106165	--	
FE BAG 1 (Bag 1 Fuel Economy)	12.14	12.14	
CH4 BAG 1 (Bag 1 Methane)	0.015524	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.006168	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-21.59388	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.234	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	469.783229	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	2.808218	--	
FE BAG 2 (Bag 2 Fuel Economy)	18.39	18.39	
CH4 BAG 2 (Bag 2 Methane)	0.006437	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.004539	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	5.89732	--	
METHANE (CH4 - Methane)	0.008463	--	
CO (Carbon Monoxide)	3.320554	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.052	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.212	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.587	--	
MFR FE (Manufacturer Fuel Economy)	16.5	16.5	
NOX (Nitrogen Oxide)	0.006111	--	
HC-NM (Non-methane Hydrocarbon)	0.004758	--	
NMOG (Non-methane organic gases)	0.004902	--	
PM (Particulate Matter)	0.001125	--	
HC-TOTAL (Total Hydrocarbon)	0.012913	--	
WATT-HRS (Watt Hours)	-12.408	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	529	--	

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family				VCRXR0225RR0			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		523.658747			--					
Manufacturer Test Comments		26DA-T03.6565-1 us06 rerun 150k Auto BSG WLTP cE10; NECFR=-0.075%; Corrected CO2/FE for NEC										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	3.32	--	--	--	0	1	3.3	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0049	--	--	--	0	1	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0061	--	--	--	0	1	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0011	--	--	--	0	1	0.001	0.006	Pass
CA	150,000 miles	Other	CO	3.32	--	--	--	0	1	3.3	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0049	--	--	--	0	1	0.005	999.999	Pass
CA	150,000 miles	Other	NOX	0.0061	--	--	--	0	1	0.006	999.999	Pass
CA	150,000 miles	Other	PM	0.0011	--	--	--	0	1	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test #	TCRX10093351	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/04/2026	Fuel	Gasoline
Fuel Batch ID	11473	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5608	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	3.591	--	
METHANE (CH4 - Methane)	0.004675	--	
CO (Carbon Monoxide)	0.41213	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1656	--	
DT-EER (Drive Trace Energy Economy Rating)	0.0027	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6664	--	
MFR FE (Manufacturer Fuel Economy)	16.1	16.1	
NOX (Nitrogen Oxide)	0.004616	--	
HC-NM (Non-methane Hydrocarbon)	0.000449	--	
NMOG (Non-methane organic gases)	0.000462	--	
HC-TOTAL (Total Hydrocarbon)	0.004954	--	
WATT-HRS (Watt Hours)	6.556	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	541	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	540.201736	--	
Manufacturer Test Comments	26DA-T03.6565-1 sc03 rerun 150k Auto BSG WLTP cE10; NECFR=0.088%; Corrected CO2/FE for NEC		

Certification Summary Information Report

Test Group		VCRXT03.6562				Evaporative/Refueling Family				VCRXR0225RR0		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.41	--	--	--	0	1	0.4	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0005	--	--	--	0	1	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0046	--	--	--	0	1	0.005	999.999	Pass
CA	150,000 miles	Other	CO	0.41	--	--	--	0	1	0.4	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0005	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	NOX	0.0046	--	--	--	0	1	0.005	999.999	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
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Emission Data Vehicle Information

Vehicle ID / Configuration	V7DS61972 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	JCRXT05.75P2	Original Evaporative/Refueling Family	JCRXR0225RP0
Original Test Vehicle Model Year	2018		

Vehicle Model

Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	1500 4X4
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AA-525	Rated Horsepower	395
Displacement (liters)	5.7		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5675	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	6900	N/V Ratio	29.2
Axle Ratio	3.92		
Transmission Type	Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	85.82	-0.1391	0.041	37.43	0.3681	0.03185	24.2
US06	85.82	-0.1391	0.041	37.43	0.3681	0.03185	N/A

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	Callout: 18EV-T05.75P2-1; Evaporative Vehicle								
Test #	JCRX10049387	Test Procedure	38 - CA fuel 3-day evap.						
Exhaust Test # for this Evap Test	JCRX10049355	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	06/13/2017	Fuel	Gasoline						
Fuel Batch ID	10465	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	CTC								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4253	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.48023</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.48023	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.48023	--							
Manufacturer Test Comments	Callout: 18EV-T05.75P2-1; Cert 3-Day/Evap confirmatory; (cE10) Hot_Soak_HC_(g) = 0.08541, Diurnal (g) = 0.35925; Total =(0.44466 X 1.08) = 0.48023 (g)								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.4802	0.0090	0.489	0.500	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.4802	0.0090	0.489	0.500	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Test #	JCRX91003631	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	JCRX91003614	Test Fuel Type	46 - CARB LEV3 E10 Regular
Test Date	07/21/2017	Fuel	Gasoline
Fuel Batch ID	24670	Fuel Calibration Number	380
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4540.1	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.417621	--

Manufacturer Test Comments

Hot_Soak_HC_(g) = 0.046095, Diurnal (gHC) = 0.371526

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.4176	0.0057	0.423	0.500	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.4176	0.0057	0.423	0.500	Pass

Test Group		VCRXT03.6562		Evaporative/Refueling Family		VCRXR0225RR0		
Test #		JCRX10049386		Test Procedure		37 - California Fuel Running Loss		
Exhaust Test # for this Evap Test		JCRX10049382		Test Fuel Type		46 - CARB LEV3 E10 Regular Gasoline		
Test Date		06/07/2017		Fuel		Gasoline		
Fuel Batch ID		10463		Fuel Calibration Number		1		
Vehicle Class		N/A		DF Type		Mfr. Determined		
Verify Test Lab ID		CTC						
E10 Evaporative Test Measurement Method		Actual Total Hydrocarbon Equivalent Measurement (with speciation)						
Test Start Odometer Reading		4199		Odometer Units		M		
4WD Test Dyno		No		Diesel Adjustment Factor Usage		--		
State of Charge Delta		--						
Drive Cycle Speed Tolerance Criteria		Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		Road Speed Fan Usage		No		
Test Results								
		Test Result Name		Unrounded Test Result		Verify Calculated FE Equivalent Value		
		HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)		0.00025		--		
Manufacturer Test Comments		Callout: 18EV-T05.75P2-1; RL/Evap; (cE10)						
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0																											
Test #	JCRX10049390	Test Procedure	24 - Federal fuel refueling test (ORVR)																											
Exhaust Test # for this Evap Test	JCRX10049383	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																											
Test Date	07/09/2017	Fuel	Gasoline																											
Fuel Batch ID	10465	Fuel Calibration Number	1																											
Vehicle Class	N/A	DF Type	Mfr. Determined																											
Verify Test Lab ID	CTC																													
E10 Evaporative Test Measurement Method	--																													
Test Start Odometer Reading	4404	Odometer Units	M																											
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																											
State of Charge Delta	--																													
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No																											
Test Results																														
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value</td></tr><tr><td>HC (Hydrocarbon for Running Loss and ORVR)</td><td>0.036</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC (Hydrocarbon for Running Loss and ORVR)	0.036	--																					
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value																												
HC (Hydrocarbon for Running Loss and ORVR)	0.036	--																												
Manufacturer Test Comments Callout: 18EV-T05.75P2-1; ORVR; (cE10)																														
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC</td><td>0.036</td><td>0.000</td><td>0.04</td><td>0.20</td><td>Pass</td></tr><tr><td>CA</td><td>150,000 miles</td><td>Other</td><td>HC</td><td>0.036</td><td>0.000</td><td>0.04</td><td>0.20</td><td>Pass</td></tr></table>				Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	Fed	150,000 miles	Federal Tier 3 Evap	HC	0.036	0.000	0.04	0.20	Pass	CA	150,000 miles	Other	HC	0.036	0.000	0.04	0.20	Pass
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail																						
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.036	0.000	0.04	0.20	Pass																						
CA	150,000 miles	Other	HC	0.036	0.000	0.04	0.20	Pass																						

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0						
Test #	JCRX10074521	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	02/28/2017	Fuel	Gasoline						
Fuel Batch ID	--	Fuel Calibration Number	--						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Sterling Performance								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	0	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.008</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.008	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.008	--							
Manufacturer Test Comments									
Test run on a rig with aged components (not actual vehicle)									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.0080	0.0000	0.008	0.020	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.0080	0.0000	0.008	0.020	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Fuel Properties			
Fuel Batch ID	10463	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	05/30/2017
Fuel Batch Calibration Effective Date	05/30/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.813	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17820
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.813	Weight Fraction CO2	--
Fuel Batch ID	10465	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/13/2017
Fuel Batch Calibration Effective Date	06/13/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.824	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17987
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--
Fuel Batch ID	11473	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	12/28/2026
Fuel Batch Calibration Effective Date	12/28/2026	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.827	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.431	Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	24670	Fuel Calibration Number	380
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	12/04/2015
Fuel Batch Calibration Effective Date	12/04/2015	Fuel Batch Calibration Ineffective Date	12/04/2030
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VCRXT03.6562	Evaporative/Refueling Family	VCRXR0225RR0
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17963
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	11466	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	12/03/2025
Fuel Batch Calibration Effective Date	12/03/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.826	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	0
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.426	Fuel Carbon Mass Fraction (E10)	0.826
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family		VCRXR0225RR0		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure		California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	1	0	4.2
150,000 miles	CREE	--	--	--	--	--	1	0	999
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Other		
Fuel		Gasoline			Test Procedure		California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	1	0	4.2
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family			VCRXR0225RR0		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050	
150,000 miles	NOX	--	--	--	--	--	1	0	999.999	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	1	0	999.9	
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999	
150,000 miles	NOX	--	--	--	--	--	1	0	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
50,000 miles	CO	--	--	--	--	--	1	0	12.5	
150,000 miles	HC-NM	--	--	--	--	--	1	0	0.4	

Certification Summary Information Report

Test Group	VCRXT03.6562			Evaporative/Refueling Family			VCRXR0225RR0		
Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other		
Fuel	Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel	Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel	Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999

Certification Summary Information Report

Test Group		VCRXT03.6562			Evaporative/Refueling Family			VCRXR0225RR0	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	1	0	12.5

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	1	0	999
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.050
150,000 miles	NOX	--	--	--	--	--	1	0	999.999

Evaporative/Refueling Standards

Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name		Rounded Result		Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV		--		0.020	0.0000

Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000		

Certification Summary Information Report

Test Group		VCRXT03.6562		Evaporative/Refueling Family		VCRXR0225RR0	
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.000		
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0090		
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0057		
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0057		
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.000		
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0090		

Certification Summary Information Report

Test Group		VCRXT03.6562		Evaporative/Refueling Family		VCRXR0225RR0	
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		
Evaporative/Refueling Family		VCRXR0225RR0		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family		VCRXR0225RR0
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family		VCRXR0225RR0
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family		VCRXR0225RR0
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VCRXT03.6562	Evaporative/Refueling Family		VCRXR0225RR0
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	



Section 8 Emission Testing Waiver Statements and Attestations

Below is a list clearly identifying the standards applicable to this Test Group for which emission testing was not performed. All FCA US LLC applicable vehicles will conform with the emission standards which emission data is not being provided, as allowed under 40 CFR 86.1829-01 or 86.1810-01.

HCHO

For the remaining list of attestations please see:

"Common Section Book - Section 14. Request for Certification "



Section 9 OBD Description

FCA US LLC considers this information proprietary and confidential. The description contains engineering detail that would allow competitors to gain insight into FCA US LLC OBD system. The OBD system descriptions for all Test Groups are on file with the US EPA and California Air Resources Board.

OBD Agency Approvals are loaded into EV-CIS and E-FILE for each test group.

OBD Demonstration Compliance Statement: This Test Group meets the full intent of both the Clean Air Act as amended in 1990, section 202(m), and the applicable federal OBD regulations contained in 40 CFR §86.005-74 and 40 CFR §86.1806-01, including a reference to those provisions pertaining to deficiencies in the limited instances where an OBD II system that complies with 1968.2 does not comply with all the requirements of section 1968.1.



Section 10 **Description of Alternate - Fueled Vehicles**

Not Applicable to this Test Group

FCA US LLC

Test Group - VCRXT03.6562

EPA COMP CODE	AA-1000	AA-2000	AA-3000	AA-4000
E10:Powertrain Control Module				
E11:Transmission Control Module				
E19:Electronic Brake Boost Control Module				
E1A:Hybrid Control Processor				
E40:Inverter Assembly				
E95:48 Volt BSG Battery Pack				
F01:Fuel Tank				
F15:Fuel Tank Filler Tube				
F40:Throttle Body				
F50:Fuel Injector				
F59:Fuel Pressure Sensor				
F70:Evap. Canister Assembly				
F79:ESIM (Evaporative System Integrity Monitor)				
H10:Catalytic Converter				
I05:Spark Plug				
I10:Ignition Coil				
L01:Heated Oxygen Sensor				

EPA COMP CODE	AA-1000	AA-2000	AA-3000	AA-4000
L12:Accelerator Pedal Position Sensor				
L15:Camshaft Position Sensor				
L16:Crankshaft Position Sensor				
L20:Knock Sensor				
L28:ABS Speed Sensor				
M04:Intake Air Temperature Sensor				
M07:Oil Temperature Sensor				
M10:Ambient Temperature Sensor				
M11:EGR Temperature Sensor				
M15:Engine Coolant Temperature Sensor				
N17:Crankshaft Target Wheel				
N50:Engine Thermostat				
N56:EGR Valve				
N57:EGR Cooler				
N62:Belt Driven Hybrid Starter Generator				
N97:Vapor Hose Harness				
V01:PCV Valve				
V05:MAP Sensor				
V63:Evap. Can. Purge Solenoid				
Z01:VECI Label				

EPA COMP CODE	AA-1000	AA-2000	AA-3000	AA-4000
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Section11-100 Engine Parts List

FCA US LLC

Test Group :VCRXT03.6562

Durability Group: VCRXGPGNNF06 **Standard Fed:** Bin50 **Cal:** N/A

Trans. Code	Sales Code	Transfer Case Sales Code/Drive Code	No. of Gears	Over Drive Gear Ratio	Drive Gear Ratio	Engine Sales Code	Torque Code	Torque Size	Conv Clutch Control Type Calib/Special Features
L8	DFT	DH8 / 4P DH9 / 4P	8	0.67	4.71,3.14,2.1,1.67,1.29,1,0.84,0.67	ERG	N/A		Electronically shifted data on file

Section12-200 Transmission

FCA US LLC

VCRXT03.6562

Durability Group:
VCRXGPGNNF06

Standard Fed: Bin50 Cal: N/A

Asterisk (*) Indicates Manufacturer has elected to certify at this higher test weight class as allowed by CFR 86.1831-01

Engine Code AA-1000

Eng Displ: 3.6L (ERG)

Evap Family - Evap Code: VCRXR0183RR0-26.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DT6A98	RAM: 1500 4X4			L8 - 4WD DFT / DH8-4P DH9-4P		6900	5500	6000	3.21	23.6	275/55R20 TUB	TZB	ER440I	18.76	18.2	38.76000	0.24020	0.03416	42.64000	0.26420	0.03758
							2218	2829	3.21	23.4	275/55R20 TTH	TZN	CRDTA4C	18.51	18.4	40.75000	0.24880	0.03391	44.82000	0.27370	0.03730
							5201	6050	3.21	23	275/65R18 TUM	TZA	4X7080L	18.35	18.6	41.27000	0.24480	0.03428	45.40000	0.26930	0.03771
									3.21	23.3	LT 275/65R18C TCP	TZJ	X4FKDT18-2	17.11	19.9	42.12000	0.39620	0.03493	46.33000	0.43580	0.03842
									3.21	23.4	275/55R20 TXP	TZJ	X4FKDT20-O	17.03	20.0	43.57000	0.37410	0.03508	47.93000	0.41150	0.03859
									3.21	22.5	LT275/70R18E TT6	TZA	5X6021F	15.38	22.1	52.58000	0.37470	0.03789	57.84000	0.41220	0.04168

Engine Code AA-2000

Eng Displ: 3.6L (ERG)

Evap Family - Evap Code: VCRXR0183RR0-26.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DT6A98	RAM: 1500 4X4			L8 - 4WD DFT / DH8-4P DH9-4P		6900	5500	6000	3.55	26	275/55R20 TUB	TZB	ER440I	18.76	18.2	38.76000	0.24020	0.03416	42.64000	0.26420	0.03758
							2218	2829	3.55	25.9	275/55R20 TTH	TZN	CRDTA4C	18.51	18.4	40.75000	0.24880	0.03391	44.82000	0.27370	0.03730
							5201	6050	3.55	25.4	275/65R18 TUM	TZA	4X7080L	18.35	18.6	41.27000	0.24480	0.03428	45.40000	0.26930	0.03771
									3.55	25.7	LT 275/65R18C TCP	TZJ	X4FKDT18-2	17.11	19.9	42.12000	0.39620	0.03493	46.33000	0.43580	0.03842
									3.55	25.8	275/55R20 TXP	TZJ	X4FKDT20-O	17.03	20.0	43.57000	0.37410	0.03508	47.93000	0.41150	0.03859
									3.55	24.9	LT275/70R18E TT6	TZA	5X6021F	15.38	22.1	52.58000	0.37470	0.03789	57.84000	0.41220	0.04168

Engine Code AA-3000

Eng Displ: 3.6L (ERG)

Evap Family - Evap Code: VCRXR0225RR1-33.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DT6A98	RAM: 1500 4X4			L8 - 4WD DFT / DH8-4P DH9-4P		6900	5500	6000	3.21	23.6	275/55R20 TUB	TZB	ER440I	18.76	18.2	38.76000	0.24020	0.03416	42.64000	0.26420	0.03758
							2218	2829	3.21	23.4	275/55R20 TTH	TZN	CRDTA4C	18.51	18.4	40.75000	0.24880	0.03391	44.82000	0.27370	0.03730
							5201	6050	3.21	23	275/65R18 TUM	TZA	4X7080L	18.35	18.6	41.27000	0.24480	0.03428	45.40000	0.26930	0.03771
									3.21	23.3	LT 275/65R18C TCP	TZJ	X4FKDT18-2	17.11	19.9	42.12000	0.39620	0.03493	46.33000	0.43580	0.03842
									3.21	23.4	275/55R20 TXP	TZJ	X4FKDT20-O	17.03	20.0	43.57000	0.37410	0.03508	47.93000	0.41150	0.03859
									3.21	22.5	LT275/70R18E TT6	TZA	5X6021F	15.38	22.1	52.58000	0.37470	0.03789	57.84000	0.41220	0.04168

Engine Code AA-4000 Eng Displ: 3.6L (ERG) Evap Family - Evap Code: VCRXR0225RR1-33.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DT6A98	RAM: 1500 4X4			L8 - 4WD DFT / DH8-4P DH9-4P		6900	5500	6000	3.55	26	275/55R20 TUB	TZB	ER440I	18.76	18.2	38.76000	0.24020	0.03416	42.64000	0.26420	0.03758
							2218	2829	3.55	25.9	275/55R20 TTH	TZN	CRDTA4C	18.51	18.4	40.75000	0.24880	0.03391	44.82000	0.27370	0.03730
							5201	6050	3.55	25.4	275/65R18 TUM	TZA	4X7080L	18.35	18.6	41.27000	0.24480	0.03428	45.40000	0.26930	0.03771
									3.55	25.7	LT 275/65R18C TCP	TZJ	X4FKDT18-2	17.11	19.9	42.12000	0.39620	0.03493	46.33000	0.43580	0.03842
									3.55	25.8	275/55R20 TXP	TZJ	X4FKDT20-O	17.03	20.0	43.57000	0.37410	0.03508	47.93000	0.41150	0.03859
									3.55	24.9	LT275/70R18E TT6	TZA	5X6021F	15.38	22.1	52.58000	0.37470	0.03789	57.84000	0.41220	0.04168

Section12-300 Vehicle

FCA US LLC

Test Group: VCRXT03.6562 - Engine Code Index

Durability Group:
VCRXGPGNNF06

Standard : Bin50 / NA Vehicle Class: LDT4 (ALVW >5750, LVW 0-3750, GVW 6001-8500) / N/A

Engine Code: AA-1000 - 3.6L DT6A98 26 gal Active Air Dam 3.21

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-1000	Original		3.6L/ERG	DT		L8/ Automatic L8 - Lockup/Automatic/8-speed	6900	6900	5500	5500	4WD	NAS

Engine Code: AA-2000 - 3.6L DT6A98 26 gal Active Air Dam 3.55

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-2000	Original		3.6L/ERG	DT		L8/ Automatic L8 - Lockup/Automatic/8-speed	6900	6900	5500	5500	4WD	NAS

Engine Code: AA-3000 - 3.6L DT6A98 33 gal Active Air Dam 3.21

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-3000	Original		3.6L/ERG	DT		L8/ Automatic L8 - Lockup/Automatic/8-speed	6900	6900	5500	5500	4WD	NAS

Engine Code: AA-4000 - 3.6L DT6A98 33 gal Active Air Dam 3.55

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-4000	Original		3.6L/ERG	DT		L8/ Automatic L8 - Lockup/Automatic/8-speed	6900	6900	5500	5500	4WD	NAS

Test Group: VCRXT03.6562 - No Engine Code Changes

Durability Group: VCRXGPGNNF06 Standard Fed: Bin50 Cal: N/A

RC/FF #	Submission Date	Description
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No Results Found

Section12-500 Engine Code Index



Section 12 Vehicle Parameters

Valves per cylinder Engine
3.6 Liters - 4

Test Parameters

SIL usage: All - None

Cooling fan configuration: Models
All - One fan center front (See Section 12 - 601)

Additional Cooling: Models
All - None

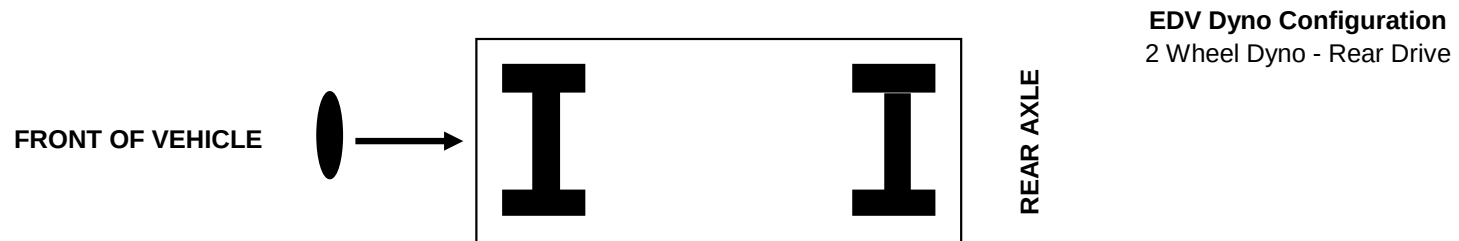
Evaporative Testing Parameters: Model
DT - 183 grams
DT - 222 grams

Fuel temperature Profile: Models
All Vehicles - "eDT"

Special Test Procedure: Models
All - none

FAN POSITION DIAGRAM

All vehicles in Test Group



Test Type	Fan Type	Fan Position	Hood Position
EPA75. HWFE US06 CCO	Road Speed Fan (RSF) (meeting requirements of 40CFR1066.105(c)(2) – speed and uniformity requirements)	Position RSF horizontally 12" from front of vehicle, centered in front of vehicle. Position RSF vertically so centerline of fan is centered with vehicle grill.	CLOSED
SC03	Road Speed Fan (meeting requirements of 40CFR1066.105(c)(5) – 45 m3/s at 60 mph)	24-36 inches from bumper/front of vehicle (facility dependent)	CLOSED



April 13, 2026

Mr. Joel Dalton
Certification and Compliance Division
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Dear Mr. Dalton:

Re: 2027 Model Year LDT Certificate of Conformity Request

FCA US LLC requests a 2027 MY Certificate of Conformity for the 3.6L Tier 4 Interim Federal and 50 State test group VCRXT03.6562 with evaporative families: VCRXR0183RR0 and VCRXR0225RR0. This test group is being certified to Tier 4 Interim BIN 50 standards. FCA US LLC agrees to meet the Tier 4 Interim BIN 50 standards, and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT03.6562. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f)(1). The FTP emission standards for this LDT test group are as follows:

<u>Emission Standards</u>		<u>City/Hwy</u> <u>NMOG+NOx</u>	<u>CO</u>	<u>HCHO</u>	<u>PM</u>		
Tier 4 Interim BIN 50	150K	0.050	1.7	0.004	0.003		
<u>Evaporative Standards</u>		<u>3-Day</u>	<u>2-Day</u>	<u>R/L</u>	<u>ORVR</u>	<u>Canister Bleed</u>	
VCRXR0183RR0	150K	0.500	0.500	0.05	0.2	0.02	
VCRXR0225RR0	150K	0.500	0.500	0.05	0.2	0.02	

Initial combined CREE for VCRXT03.6562 test group is = 374.9

The models in this test group are as follows:

Division / Model
RAM 1500, 4X4

If there are any questions regarding this submission, please contact Darnell Jones at 248.512.3923 or Gary J. Arvan at 248.221.9461.

Sincerely,
FCA US LLC

Gary J. Arvan, Director
Vehicle Safety & Environmental Homologation Programs
gja/dgj

VCRXT03.6562 Part 1 Section 14 - 001 (2027)



April 13, 2026

Ms. Robin U. Lang, Chief
Emissions Certification and Compliance Division
Air Resources Board
4001 Iowa Ave,
Riverside, CA 92507

Dear Ms. Lang:

Re: 2027 Model Year LDT Executive Order Request

FCA US LLC requests a 2027 MY Executive Order for the 3.6L 50 State test group VCRXT03.6562 with evaporative families: VCRXR0183RR0 and VCRXR0225RR0. This test group is being certified according to an alternate certification path provided in MAC ECCD-2025-08. FCA requests an EO based on the EPA Tier 4 Interim requirements as reflected in the enclosed EPA Certificates of Conformity and EPA Certification Summary Information.

FCA US LLC agrees to meet the Tier 4 Interim BIN 50 emission standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT03.6562. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f)(1). The FTP emission standards for this LDT test group are as follows:

<u>Emission Standards</u>		<u>City/Hwy</u> <u>NMOG+NOx</u>	<u>CO</u>	<u>HCHO</u>	<u>PM</u>	
Tier 4 Interim BIN 50	150K	0.050	1.7	0.004	0.003	
<u>Evaporative Standards</u>		<u>3-Day</u>	<u>2-Day</u>	<u>R/L</u>	<u>ORVR</u>	<u>Canister Bleed</u>
VCRXR0183RR0	150K	0.500	0.500	0.05	0.2	0.02
VCRXR0225RR0	150K	0.500	0.500	0.05	0.2	0.02

Initial combined CREE for VCRXT03.6562 test group is = 374.9

FCA also completed an E-CERT submission for this test group at the direction of CARB. CARB's E-CERT system requires the selection of a California emission standard at the time of submission. FCA selected the LEV III standard for this reason only and not as an acknowledgement of CARB's authority to require compliance with the underlying standards.

If there are any questions regarding this submission, please contact Darnell Jones at 248.512.3923 or Gary J. Arvan at 248.221.9461.

Sincerely,

FCA US LLC

Gary J. Arvan, Director
Vehicle Safety & Environmental Homologation Programs

c: J. Nguyen
gja/dgj

VCRXT03.6562 Part 1 Section 14 - 002 (2027)

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 02/19/2026

Process Code *

Submit Correction/Revision to Previous Fee Filing Form

Manufacturer Code *

CRX

Manufacturer Name *

FCA US LLC

Contact Name *

Pamela J Barylski

Contact Email Address *

pamela.barylski@stellantis.com

Contact Phone *

8102798571

Engine Family / Evaporative Family / Test Group *

VCRXT03.6542

Revised Engine Family / Evaporative Family /
Test Group *

VCRXT03.6562

Original Payment Information

Payment Date *

07/24/2025



Amount Paid *

\$32,317.00

Check#/Wire/ACH/Pay.gov Tracking Number *

4413773559

Reason for Correction

Reason For Correction *

- ☒ Typographical error in original Engine Family / Evaporative Family / Test Group
- ☐ Overpayment for original family name, please apply the overpayment to the revised Engine Family / Evaporative Family / Test Group
- ☐ Other (explain in comments box)

Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the

OMB control number in any correspondence. Do not send the completed forms to this address.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).

PAM BARYLSKI

From: Stump, Barbara <Stump.Barbara@epa.gov>
Sent: Thursday, February 19, 2026 3:18 PM
To: PAM BARYLSKI
Subject: [EXTERNAL]EPA MVECP Certification Fees Correction/Revision for VCRXT03.6542

EXTERNAL: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Pam,

The fee correction is done. The payment of \$32,317.00 has been corrected to VCRXT03.6562 in EPA's fees system.

Best regards,

Barbara Stump

Business Process Analyst

Contractor to the U.S. EPA

OTAQ, Implementation, Analysis and Compliance Division

stump.barbara@epa.gov

GENERAL DYNAMICS
Information Technology

MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY

CARB USE ONLY

Invoice Name	MSF250446-1
Invoice Date	Feb 20, 2026

COMPANY INFORMATION

Company Name	FCA US LLC
Address	800 Chrysler Drive
City	Auburn Hills
State	MI
Zip	48326
Country	United States
Contact Name	Gary Arvan
Contact Telephone Number	248-221-9461
Contact Email	gary.arvan@stellantis.com
CARB Customer Number	CCAM000028

APPLICATION INFORMATION

Row Number	Previous Unique Application Identifier	Previously Selected Category Type	Previously Selected Fee Type	Paid Amount	Corrected Unique Application Identifier	Corrected Category Type	Corrected Fee Type	Corrected Amount	Amount Due
1	TCRXT06.2F71	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00	TCRXT06.2F71	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00	\$ 0.00
2	TCRXT06.4F70	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00	TCRXT06.4F70	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00	\$ 0.00
3	VCRXJ00.0510	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00	VCRXJ00.0510	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00	\$ 0.00
4	VCRXV03.0570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VCRXV03.0570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
5	VCRXT03.6542	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VCRXT03.6562	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
6	VCRXT03.6570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VCRXT03.6570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00

Total Invoice (MSF250446) Paid \$ 260,398.00

Total Corrected \$ 260,398.00

Total Due	\$ 0.00
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Notes
Changed UID from VCRXT03.6542 to VCRXT03.6562

I, [Gary Arvan](#), attest that any information provided is true, accurate, and complete.
(Responsible Party Signature Here)

PAM BARYLSKI

From: noreply@salesforce.com on behalf of California Air <mscertfees@arb.ca.gov>
Sent: Tuesday, December 2, 2025 12:33 PM
To: PAM BARYLSKI
Subject: [EXTERNAL]MS Fee Payment Confirmation for Invoice MSF250446
Attachments: MSF250446 - signed.pdf

EXTERNAL: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Gary Arvan

Attached is documentation for your MS Fee payment for Invoice Name MSF250446. Please include a copy of this invoice and email with each application that is listed when submitting your application to the applicable MS Fee program.

1. Payment ID – 25RA0202
2. Date of Payment – 11/24/2025
3. Payment Status - Paid





2027 50-State (NAS) DT

Test Group: VCRXT03.6562

FCA US LLC		VEHICLE EMISSION CONTROL INFORMATION	
GROUP: VCRXT03.6562 EVAP: VCRXR0183RR0 26.0 gal VCRXR0225RR0 33.0 gal		NO ADJUSTMENTS NEEDED EGR / EGRC H02S / SFI TWC	CONFORMS TO REGULATIONS: 2027 MY ENGINE: 3.6L
U.S. EPA: T4I B50 LDT OBD: CA OBD II FUEL: GASOLINE		68776 553AB	
CA: N/A OBD: N/A FUEL: N/A THIS VEHICLE CONFORMS TO FEDERAL REGULATIONS AND IS CERTIFIED FOR SALE IN CALIFORNIA			

VECI label is located on the vehicle per 40 CFR 86.1807-01.

VCRXT03.6562 Part 1 Section 15 - 100 (2027)