



Application for Certification
Part 1

2027 ModelYear

Durability Group: VCRXHHGVNF20
Evaporative Family: VCRXR0177FEN

Test Group: VCRXT03.6543
PHEV

Four Stroke, Otto Cycle, Gasoline Fueled, Ported FI

Ceramic Monolith Pt, Pd, Rh Close Coupled Catalyst

3.6 Liter V-6
MDPV

Applicable Standards:
50 State - Tier 4i BIN 30

Vehicles Covered:
Jeep Grand Wagoneer L REV, AWD
Jeep Grand Wagoneer REV, AWD

Vehicle(s) Run:
VID 1 config., Vehicle ID L5DTS2041 (Exh.)
VID 2 config., Vehicle ID L5DTS2042 (Evap)

For Questions, Avinash Manivannan 248.934.7024 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:

<u>Name</u>	Gary J. Arvan	Avinash Manivannan
<u>Title</u>	Director	Certification Engineer
<u>Responsibility</u>	Vehicle Safety & Environmental Homologation Programs	Application Submission
<u>Phone</u>	248.221.9461	248.934.7024
<u>E-mail</u>	gary.arvan@stellantis.com	avinaschander.manivannan@stellantis.com
<u>Fax</u>	248.576.7928	248.576.7928

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: VCRXHHGVNF20

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): VCRXR0177FEN

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: VCRXHHGVNF20

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.

Aged Components were used.

Indicate whether additive or multiplicative DF's were used.

N/A

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

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

And applicable standards (test results and vehicle description).

CARB - Reference Cert Review Sheet

Evaporative/Refueling Family:

VCRXR0177FEN

For a complete description of the Durability Procedure please see:

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

Indicate if aged components were used.

Yes - Bench Aging

Indicate whether additive or multiplicative DF's were used.

Additive

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

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

And applicable standards (test results and vehicle description).

CARB - Reference Cert Review Sheet



Section 5 Test Group Description

Test Group Name:	VCRXT03.6543
Engine displacements covered:	3.6L
Arrangement and number of cylinders:	V-6
Vehicle class(es) covered:	MDPV
Emission standards class:	BIN 30
AB71 Qualified Vehicles:	No

Certification Summary Information Report

Manufacturer	FCA US LLC	Manufacturer Code	CRX
Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	08/06/2026 08:26:03 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
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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	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	MDPV
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	VCRXHHGVNF20	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	VCRXT03.6543
Test Group OBD Compliance Level	Partial - with deficiencies and penalty	Number of Test Group OBD Deficiencies	3
OBD Deficiencies Comments	1. SAE International (SAE) J1979-2 implementation. 2. Adaptive cruise control and parallel park systems default action. 3. Vehicle operation tracking lifetime counters implementation.		
Mfr Test Group Comments	T4iBIN30 E10 - City Litmus Value: 20.2; City Litmus Threshold: 21.9; Hwy Litmus Value: 19.5; Hwy Litmus Threshold: 20.1 This test group is being certified to Tier 4 Interim standards. FCA US LCC agrees to meet the Tier 4i BIN 30 standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT03.6543		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
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Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	06/04/2026 11:13:08 AM
Integrated ORVR?	Yes	Fuel(s)	Electricity, Gasoline
Multiple Fuel Storage	Fuels Stored Separately		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic
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?	No	Other Vapor Storage	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	177	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	No	Applicability of Evaporative Canister Bleed Test	--
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
VCRXR0177FEN-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	5 - Jeep	576 - Grand Wagoneer L REV	Federal	All Wheel Drive	Automatic	1	No
FCA US LLC	5 - Jeep	575 - Grand Wagoneer REV	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
FCA US LLC	5 - Jeep	576 - Grand Wagoneer L REV	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
FCA US LLC	5 - Jeep	575 - Grand Wagoneer REV	Federal	All Wheel Drive	Automatic	1	No

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN	
Engine Description				
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	PHEV / Range Extended Electric Vehicle	
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	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith
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	255	
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	Multi-air-electro-hydraulic control			
Variable Valve Lift?	Yes			
Variable Valve Lift System Description	Multi-air-electro-hydraulic control			
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	No	Cooled Exhaust Gas Recirculation	--	
EGR Type	--	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		VCRXT03.6543		Evaporative/Refueling Family		VCRXR0177FEN				
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	VCRX10094396	VCRX10094410	VCRX10094411	VCRX10094434	VCRX10094409	20.2	22.0	19.5	20.1	1.0
Electricity	--	--	--	--	--	--	--	--	--	0.0
SFTP LEV-III Official Test Numbers										
Test Group Fuel	FTP		US06		SC03					
Gasoline	VCRX10094396		VCRX10094410		VCRX10094411					
Official Charge Depleting Test Numbers										
Test Group Fuel	UDDS		Highway							
Electricity	VCRX10094389		VCRX10094390							
Hybrid Electric Vehicle And Fuel Cell Information										
Rechargeable Energy Storage System	Battery(s)		Rechargeable Energy Storage System, if Other		--					
Battery Type	Lithium Ion		Number of Battery Packs		1					
Total Voltage of Battery Packs	400		Battery Energy Capacity		260.60					
Battery Specific Energy	161.0		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)	3		Rated Motor/Generator Power		130					
Motor/Generator Type 1	AC Induction		Rated Motor/Generator Power		130					
Motor/Generator Type 2	AC Induction		Rated Motor/Generator Power		130					
Motor/Generator Type 3	AC Induction		Usable H2 Fill Capacity (kg)		--					
Mfr Fuel Cell Description	--									
Fuel Cell On-Board H2 Storage Capacity (kg)	--									
Mfr Hybrid Electric/ Electric Vehicle Comments	--									

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
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Emission Data Vehicle Information

Vehicle ID / Configuration	L5DTS2041 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VCRXT03.6543	Original Evaporative/Refueling Family	VCRXR0202FEN
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	1500 Ramcharger 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
2	Electric Motor	Electricity

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	Yes		
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-0200	Rated Horsepower	255
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	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	7972	Equivalent Test Weight (pounds)	8500
GVWR (lbs)	9700	N/V Ratio	158
Axle Ratio	9.99		
Transmission Type	Automatic	# of Transmission Gears	1
Transmission Lockup	No	Creep Gear	No

Certification Summary Information Report

Test Group		VCRXT03.6543			Evaporative/Refueling Family		VCRXR0177FEN	
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	66.17	-0.1285	0.04094	0.95	-0.4977	0.04054	21.6	
Cold CO	72.79	-0.1414	0.04503	7.07	-1.9601	0.05684	N/A	
US06	66.17	-0.1285	0.04094	0.95	-0.4977	0.04054	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		callout: 27DA-T03.6543-1; Axle Ratio = 15						

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10094396	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	05/19/2026	Fuel	Gasoline
Fuel Batch ID	11494	Fuel Calibration Number	1
Vehicle Class	MDPV	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5969	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	No
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.905	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	7.454	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	326.9842723	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.1777487	--	
FE BAG 1 (Bag 1 Fuel Economy)	26.6	26.6	
CH4 BAG 1 (Bag 1 Methane)	0.0045984	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0339385	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	81.8103652	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	7.451	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	277.657363	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0136105	--	
FE BAG 2 (Bag 2 Fuel Economy)	31.4	31.4	
CH4 BAG 2 (Bag 2 Methane)	0.0014189	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	158.5409972	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-661.4583759	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	446.9526578	--	
METHANE (CH4 - Methane)	0.0027861	--	
CO (Carbon Monoxide)	0.08419	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.923	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.466	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.217	--	
MFR FE (Manufacturer Fuel Economy)	29.2	29.2	
NOX (Nitrogen Oxide)	0.000611	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0.013289	--	
NMOG (Non-methane organic gases)	0.0145935	--	
PM (Particulate Matter)	0.000064	--	
HC-TOTAL (Total Hydrocarbon)	0.015559	--	
WATT-HRS (Watt Hours)	44.5454803	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	299	299	

Certification Summary Information Report

Test Group		VCRXT03.6543				Evaporative/Refueling Family				VCRXR0177FEN		
Test Result Name				Unrounded Test Result				Verify Calculated CO2				
Carbon dioxide				298.867934				--				
Manufacturer Test Comments				27DA-T03.6543-1 city 150k Auto Fixed cE10; FE/CO2/CREE are NEC Corrected S1=3.1, S2=2.4; NECFR1=2.85%, NECFR2 -=-2.60%;								
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 30	CO	0.08	--	--	--	0	1	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.17	--	--	--	0	1	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	299	--	--	--	0	1	299	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0028	--	--	--	0	1	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0000	--	--	--	0	1	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0146	--	--	--	0	1	0.015	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0152	--	--	--	--	--	0.015	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0097	--	--	--	0	1	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0006	--	--	--	0	1	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0001	--	--	--	0	1	0.000	0.003	Pass
CA	150,000 miles	Other	CO	0.08	--	--	--	0	1	0.1	1.0	Pass
CA	150,000 miles	Other	CO-COMP	0.17	--	--	--	0	1	0.2	4.2	Pass
CA	150,000 miles	Other	METHANE	0.0028	--	--	--	0	1	0.003	0.030	Pass
CA	150,000 miles	Other	N2O	0.0000	--	--	--	0	1	0.000	0.010	Pass
CA	150,000 miles	Other	NMOG	0.0146	--	--	--	0	1	0.015	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0152	--	--	--	--	--	0.015	0.030	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0097	--	--	--	0	1	0.010	0.030	Pass
CA	150,000 miles	Other	NOX	0.0006	--	--	--	0	1	0.001	999.999	Pass
CA	150,000 miles	Other	PM	0.0001	--	--	--	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	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10094434	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	06/02/2026	Fuel	Gasoline
Fuel Batch ID	11466	Fuel Calibration Number	1
Vehicle Class	MDPV	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6264	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	No
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
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)	3.586	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	687.4381689	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	3.822225	--	
FE BAG 1 (Bag 1 Fuel Economy)	12.4	12.4	
CH4 BAG 1 (Bag 1 Methane)	0.038305	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.750322	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	611.2994868	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.859	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	625.8061303	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.253155	--	
FE BAG 2 (Bag 2 Fuel Economy)	13.9	13.9	
CH4 BAG 2 (Bag 2 Methane)	0.001655	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.001635	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-606.3169622	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.607	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	347.8804199	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.014965	--	
FE BAG 3 (Bag 3 Fuel Economy)	24.8	24.8	
CH4 BAG 3 (Bag 3 Methane)	0.000631	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.000001	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	606.62898	--	
METHANE (CH4 - Methane)	0.008963	--	
CO (Carbon Monoxide)	0.926687	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.54	--	
DT-EER (Drive Trace Energy Economy Rating)	0.7138	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.984	--	
MFR FE (Manufacturer Fuel Economy)	15.4	15.4	
NOX (Nitrogen Oxide)	0.002783	--	
HC-NM (Non-methane Hydrocarbon)	0.141983	--	
NMOG (Non-methane organic gases)	0.1562	--	

Certification Summary Information Report

Test Group		VCRXT03.6543				Evaporative/Refueling Family				VCRXR0177FEN			
		WATT-HRS (Watt Hours)		653.278241				--					
		Test Result Name		Unrounded Test Result				Verify Calculated CREE/OPT-CREE					
		Carbon-Related Exhaust Emissions		564				--					
		Test Result Name		Unrounded Test Result				Verify Calculated CO2					
		Carbon dioxide		562.035832				--					
Manufacturer Test Comments		27DA-T03.6543-1 city 150k Auto Fixed CCO; FE/CO2/CREE are NEC Corrected; S1=S2=S3=2.0; NECFR=2.81%											
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 30	CO	0.93	--	--	--	0	1	0.9	12.5	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 30	HC-NM	0.14	--	--	--	0	1	0.1	0.5	Pass	
CA	50,000 miles	Other	CO	0.93	--	--	--	0	1	0.9	12.5	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10094409	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/19/2026	Fuel	Gasoline
Fuel Batch ID	11494	Fuel Calibration Number	1
Vehicle Class	MDPV	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5984	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
ACT-DISTANCE (Actual Distance Driven (miles))	10.227	--
METHANE (CH4 - Methane)	0.003517	--
CO (Carbon Monoxide)	0.229023	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-5.88	--
DT-EER (Drive Trace Energy Economy Rating)	-0.404	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.08	--
MFR FE (Manufacturer Fuel Economy)	29.3	29.3
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.000059	--
NMOG (Non-methane organic gases)	0.00006	--
HC-TOTAL (Total Hydrocarbon)	0.003447	--
WATT-HRS (Watt Hours)	-295.1523171	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	298	298

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	297.518309	--

Manufacturer Test Comments

27DA-T03.6543-1 hwy 150k Auto Fixed cE10; FE/CO2/CREE are NEC Corrected; S2=3.3; NECFR=-2.38%

Certification Summary Information Report

Test Group		VCRXT03.6543			Evaporative/Refueling Family					VCRXR0177FEN		
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 30	CREE	298	--	--	--	0	1	298	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0001	--	--	--	0	1	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0001	--	--	--	--	--	0.000	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0000	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0001	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0001	--	--	--	--	--	0.000	0.030	Pass
CA	150,000 miles	Other	NOX	0.0000	--	--	--	0	1	0.000	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	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10094410	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/19/2026	Fuel	Gasoline
Fuel Batch ID	11494	Fuel Calibration Number	1
Vehicle Class	MDPV	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6013	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	No
Test Results			

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	8.024	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.788	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	443.8946476	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.547704	--	
FE BAG 1 (Bag 1 Fuel Economy)	19.7	19.7	
CH4 BAG 1 (Bag 1 Methane)	0.002111	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.00048	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-141.452239	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.236	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	418.9159341	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.505603	--	
FE BAG 2 (Bag 2 Fuel Economy)	20.8	20.8	
CH4 BAG 2 (Bag 2 Methane)	0.001429	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	185.1362189	--	
METHANE (CH4 - Methane)	0.001581	--	
CO (Carbon Monoxide)	0.514983	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-4.294	--	
DT-EER (Drive Trace Energy Economy Rating)	-2.946	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.373	--	
MFR FE (Manufacturer Fuel Economy)	20.5	20.5	
NOX (Nitrogen Oxide)	0.00003	--	
HC-NM (Non-methane Hydrocarbon)	0.000104	--	
NMOG (Non-methane organic gases)	0.000107	--	
PM (Particulate Matter)	0.000265	--	
HC-TOTAL (Total Hydrocarbon)	0.001025	--	
WATT-HRS (Watt Hours)	43.730588	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	425	--	

Certification Summary Information Report

Test Group		VCRXT03.6543				Evaporative/Refueling Family				VCRXR0177FEN		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		424.483347			--					
Manufacturer Test Comments		27DA-T03.6543-1 us06 150k Auto Fixed cE10; FE/CO2/CREE are NEC Corrected; S2=2.8; NECFR=0.35%										
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 30	CO	0.51	--	--	--	0	1	0.5	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0001	--	--	--	0	1	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0000	--	--	--	0	1	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0	1	0.000	0.006	Pass
CA	150,000 miles	Other	CO	0.51	--	--	--	0	1	0.5	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0001	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	NOX	0.0000	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	PM	0.0003	--	--	--	0	1	0.000	0.006	Pass

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10094411	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/19/2026	Fuel	Gasoline
Fuel Batch ID	11494	Fuel Calibration Number	1
Vehicle Class	MDPV	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6021	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))	3.589	--
METHANE (CH4 - Methane)	0.001446	--
CO (Carbon Monoxide)	0.007815	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.709	--
DT-EER (Drive Trace Energy Economy Rating)	0.1628	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.213	--
MFR FE (Manufacturer Fuel Economy)	23.5	23.5
NOX (Nitrogen Oxide)	0.011739	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.000932	--
WATT-HRS (Watt Hours)	88.2949322	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	372	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	371.752259	--

Manufacturer Test Comments

27DA-T03.6543-1 sc03 150k Auto RSF cE10; FE/CO2/CREE are NEC Corrected; S2=2.9; NECFR=1.86%

Certification Summary Information Report

Test Group		VCRXT03.6543				Evaporative/Refueling Family				VCRXR0177FEN		
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 30	CO	0.01	--	--	--	0	1	0.0	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	--	--	0	1	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0117	--	--	--	0	1	0.012	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0000	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0117	--	--	--	--	--	0.012	999.999	Pass
CA	150,000 miles	Other	NOX	0.0117	--	--	--	0	1	0.012	999.999	Pass

Certification Summary Information Report

Test Group		VCRXT03.6543	Evaporative/Refueling Family		VCRXR0177FEN
Test #		VCRX10094389	Test Procedure		81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test		--	Test Fuel Type		46 - CARB LEV3 E10 Regular Gasoline
Test Date		05/14/2026	Fuel		N/A
Fuel Batch ID		11494	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		5734	Odometer Units		M
4WD Test Dyno		No	Diesel Adjustment Factor Usage		--
State of Charge Delta		No			
Drive Cycle Speed Tolerance Criteria		Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage		No
PHEV/EV Charge Depleting Test Information					
Recharge Event Voltage		234	Recharge Event Energy (kiloWatt-hours)		61.94
Charge Depleting Range (Calculated miles)		163.282	Charge Depleting Range (Actual miles)		163.282
Charge Depleting Range Highway (Calculated miles)		--	Derived 5-Cycle Coefficient Model Year		2017
All Electric Range Unadjusted (miles)		162.776	Equivalent All Electric Range (miles)		162.149
Number of Charge Depleting Bags/Phases Conducted		23	Transition Bag/Phase Number		22
Charge Depleting Bag/Phase #1					

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.452	
	Average System Voltage	394.563	
	CH4 - Methane	0.00006	
	Carbon Monoxide	0	
	Carbon dioxide	0.134	
	Carbon-Related Exhaust Emissions	0.14	
	Drive Trace Absolute Speed Change Rating	-1.955	
	Drive Trace Energy Economy Rating	-1.442	
	Drive Trace Inertia Work Ratio Rating	-3.247	
	Integrated Amp-hours	7.461	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00055	
	Non-methane organic gases	0.0006	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	7.461	
	System Start State of Charge Watt-hours	0	
	Total Hydrocarbon	0.0006	
	Charge Depleting Bag/Phase #2		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.464	
	Average System Voltage	393.557	
	CH4 - Methane	0.00011	
	Carbon Monoxide	0	
	Carbon dioxide	0.055	
	Carbon-Related Exhaust Emissions	0.06	
	Drive Trace Absolute Speed Change Rating	-0.988	
	Drive Trace Energy Economy Rating	-0.034	
	Drive Trace Inertia Work Ratio Rating	-1.535	
	Integrated Amp-hours	14.225	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.0001	
	Non-methane Hydrocarbon	0.00013	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	14.225	
	System Start State of Charge Watt-hours	7.461	
	Total Hydrocarbon	0.00023	
	Charge Depleting Bag/Phase #3		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.448	
	Average System Voltage	392.944	
	CH4 - Methane	0.00015	
	Carbon Monoxide	0	
	Carbon dioxide	0.088	
	Carbon-Related Exhaust Emissions	0.09	
	Drive Trace Absolute Speed Change Rating	-1.326	
	Drive Trace Energy Economy Rating	-0.494	
	Drive Trace Inertia Work Ratio Rating	-2.192	
	Integrated Amp-hours	20.509	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00015	
	Non-methane organic gases	0.0002	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	20.509	
	System Start State of Charge Watt-hours	14.225	
	Total Hydrocarbon	0.0003	
	Charge Depleting Bag/Phase #4		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.445	
	Average System Voltage	392.336	
	CH4 - Methane	0.00047	
	Carbon Monoxide	0	
	Carbon dioxide	0.266	
	Carbon-Related Exhaust Emissions	0.27	
	Drive Trace Absolute Speed Change Rating	-1.056	
	Drive Trace Energy Economy Rating	-0.302	
	Drive Trace Inertia Work Ratio Rating	-1.281	
	Integrated Amp-hours	26.776	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00017	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	26.776	
	System Start State of Charge Watt-hours	20.509	
	Total Hydrocarbon	0.00027	
Charge Depleting Bag/Phase #5			

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.434	
	Average System Voltage	391.635	
	CH4 - Methane	0.00036	
	Carbon Monoxide	0.00024	
	Carbon dioxide	0.113	
	Carbon-Related Exhaust Emissions	0.12	
	Drive Trace Absolute Speed Change Rating	-1.295	
	Drive Trace Energy Economy Rating	-0.684	
	Drive Trace Inertia Work Ratio Rating	-2.248	
	Integrated Amp-hours	33.027	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00036	
	Non-methane organic gases	0.0004	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	33.027	
	System Start State of Charge Watt-hours	26.776	
	Total Hydrocarbon	0.00071	
	Charge Depleting Bag/Phase #6		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.432	
	Average System Voltage	390.593	
	CH4 - Methane	0.00031	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-1.974	
	Drive Trace Energy Economy Rating	-1.051	
	Drive Trace Inertia Work Ratio Rating	-3.285	
	Integrated Amp-hours	39.273	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00009	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	39.273	
	System Start State of Charge Watt-hours	33.027	
	Total Hydrocarbon	0.00019	
	Charge Depleting Bag/Phase #7		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.438	
	Average System Voltage	389.061	
	CH4 - Methane	0.00038	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-1.308	
	Drive Trace Energy Economy Rating	-0.361	
	Drive Trace Inertia Work Ratio Rating	-1.799	
	Integrated Amp-hours	45.545	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00013	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	45.545	
	System Start State of Charge Watt-hours	39.273	
	Total Hydrocarbon	0.00021	
	Charge Depleting Bag/Phase #8		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.443	
	Average System Voltage	387.059	
	CH4 - Methane	0.00014	
	Carbon Monoxide	0	
	Carbon dioxide	0.221	
	Carbon-Related Exhaust Emissions	0.22	
	Drive Trace Absolute Speed Change Rating	-1.201	
	Drive Trace Energy Economy Rating	-0.685	
	Drive Trace Inertia Work Ratio Rating	-2.567	
	Integrated Amp-hours	51.843	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00009	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	51.843	
	System Start State of Charge Watt-hours	45.545	
	Total Hydrocarbon	0.00023	
	Charge Depleting Bag/Phase #9		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.458	
	Average System Voltage	384.648	
	CH4 - Methane	0.00014	
	Carbon Monoxide	0	
	Carbon dioxide	0.102	
	Carbon-Related Exhaust Emissions	0.1	
	Drive Trace Absolute Speed Change Rating	-1.038	
	Drive Trace Energy Economy Rating	-0.35	
	Drive Trace Inertia Work Ratio Rating	-1.764	
	Integrated Amp-hours	58.183	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00041	
	Non-methane organic gases	0.0004	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	58.183	
	System Start State of Charge Watt-hours	51.843	
	Total Hydrocarbon	0.00054	
	Charge Depleting Bag/Phase #10		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.474	
	Average System Voltage	382.013	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0.005	
	Carbon-Related Exhaust Emissions	0.01	
	Drive Trace Absolute Speed Change Rating	-1.51	
	Drive Trace Energy Economy Rating	-1.046	
	Drive Trace Inertia Work Ratio Rating	-2.504	
	Integrated Amp-hours	64.546	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00026	
	Non-methane Hydrocarbon	0.00035	
	Non-methane organic gases	0.0004	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	64.546	
	System Start State of Charge Watt-hours	58.183	
	Total Hydrocarbon	0.00035	
	Charge Depleting Bag/Phase #11		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.45	
	Average System Voltage	379.483	
	CH4 - Methane	0.00013	
	Carbon Monoxide	0.00054	
	Carbon dioxide	0.088	
	Carbon-Related Exhaust Emissions	0.09	
	Drive Trace Absolute Speed Change Rating	-1.898	
	Drive Trace Energy Economy Rating	-0.867	
	Drive Trace Inertia Work Ratio Rating	-3.183	
	Integrated Amp-hours	70.935	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00013	
	Non-methane Hydrocarbon	0.00015	
	Non-methane organic gases	0.0002	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	70.935	
	System Start State of Charge Watt-hours	64.546	
	Total Hydrocarbon	0.00027	
	Charge Depleting Bag/Phase #12		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.477	
	Average System Voltage	377.077	
	CH4 - Methane	0.00021	
	Carbon Monoxide	0.00079	
	Carbon dioxide	0.11	
	Carbon-Related Exhaust Emissions	0.11	
	Drive Trace Absolute Speed Change Rating	-0.497	
	Drive Trace Energy Economy Rating	0.081	
	Drive Trace Inertia Work Ratio Rating	-0.48	
	Integrated Amp-hours	77.416	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00015	
	Non-methane Hydrocarbon	0.00004	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	77.416	
	System Start State of Charge Watt-hours	70.935	
	Total Hydrocarbon	0.00024	
	Charge Depleting Bag/Phase #13		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.444	
	Average System Voltage	374.619	
	CH4 - Methane	0.00025	
	Carbon Monoxide	0.00062	
	Carbon dioxide	0.061	
	Carbon-Related Exhaust Emissions	0.06	
	Drive Trace Absolute Speed Change Rating	3.015	
	Drive Trace Energy Economy Rating	3.212	
	Drive Trace Inertia Work Ratio Rating	3.652	
	Integrated Amp-hours	83.968	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00029	
	Non-methane organic gases	0.0003	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	83.968	
	System Start State of Charge Watt-hours	77.416	
	Total Hydrocarbon	0.00053	
	Charge Depleting Bag/Phase #14		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.437	
	Average System Voltage	372.174	
	CH4 - Methane	0.00006	
	Carbon Monoxide	0	
	Carbon dioxide	0.042	
	Carbon-Related Exhaust Emissions	0.04	
	Drive Trace Absolute Speed Change Rating	2.58	
	Drive Trace Energy Economy Rating	3.063	
	Drive Trace Inertia Work Ratio Rating	3.122	
	Integrated Amp-hours	90.588	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00018	
	Non-methane organic gases	0.0002	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	90.588	
	System Start State of Charge Watt-hours	83.968	
	Total Hydrocarbon	0.00024	
	Charge Depleting Bag/Phase #15		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	369.915	
	CH4 - Methane	0.00024	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	1.897	
	Drive Trace Energy Economy Rating	2.395	
	Drive Trace Inertia Work Ratio Rating	2.945	
	Integrated Amp-hours	97.222	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00002	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	97.222	
	System Start State of Charge Watt-hours	90.588	
	Total Hydrocarbon	0.00022	
	Charge Depleting Bag/Phase #16		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.438	
	Average System Voltage	367.896	
	CH4 - Methane	0.00025	
	Carbon Monoxide	0	
	Carbon dioxide	0.053	
	Carbon-Related Exhaust Emissions	0.05	
	Drive Trace Absolute Speed Change Rating	2.075	
	Drive Trace Energy Economy Rating	2.506	
	Drive Trace Inertia Work Ratio Rating	1.969	
	Integrated Amp-hours	103.864	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00002	
	Non-methane Hydrocarbon	0.00009	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	103.864	
	System Start State of Charge Watt-hours	97.222	
	Total Hydrocarbon	0.00032	
	Charge Depleting Bag/Phase #17		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.427	
	Average System Voltage	365.823	
	CH4 - Methane	0.00033	
	Carbon Monoxide	0	
	Carbon dioxide	0.064	
	Carbon-Related Exhaust Emissions	0.07	
	Drive Trace Absolute Speed Change Rating	1.45	
	Drive Trace Energy Economy Rating	2.139	
	Drive Trace Inertia Work Ratio Rating	1.487	
	Integrated Amp-hours	110.535	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00012	
	Non-methane Hydrocarbon	0.00016	
	Non-methane organic gases	0.0002	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	110.535	
	System Start State of Charge Watt-hours	103.864	
	Total Hydrocarbon	0.00047	

Charge Depleting Bag/Phase #18

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.449	
	Average System Voltage	363.581	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	1.846	
	Drive Trace Energy Economy Rating	1.895	
	Drive Trace Inertia Work Ratio Rating	2.411	
	Integrated Amp-hours	117.229	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00001	
	Non-methane Hydrocarbon	0.00024	
	Non-methane organic gases	0.0003	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	117.229	
	System Start State of Charge Watt-hours	110.535	
	Total Hydrocarbon	0.00024	
	Charge Depleting Bag/Phase #19		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.438	
	Average System Voltage	361.179	
	CH4 - Methane	0.00002	
	Carbon Monoxide	0	
	Carbon dioxide	0.092	
	Carbon-Related Exhaust Emissions	0.09	
	Drive Trace Absolute Speed Change Rating	2.121	
	Drive Trace Energy Economy Rating	2.143	
	Drive Trace Inertia Work Ratio Rating	2.858	
	Integrated Amp-hours	123.992	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00019	
	Non-methane organic gases	0.0002	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	123.992	
	System Start State of Charge Watt-hours	117.229	
	Total Hydrocarbon	0.00021	

Charge Depleting Bag/Phase #20

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.448	
	Average System Voltage	358.727	
	CH4 - Methane	0.00033	
	Carbon Monoxide	0	
	Carbon dioxide	0.166	
	Carbon-Related Exhaust Emissions	0.17	
	Drive Trace Absolute Speed Change Rating	0.367	
	Drive Trace Energy Economy Rating	1.003	
	Drive Trace Inertia Work Ratio Rating	0.259	
	Integrated Amp-hours	130.749	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00026	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	130.749	
	System Start State of Charge Watt-hours	123.992	
	Total Hydrocarbon	0.00025	
	Charge Depleting Bag/Phase #21		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.438	
	Average System Voltage	356.299	
	CH4 - Methane	0.00038	
	Carbon Monoxide	0	
	Carbon dioxide	0.076	
	Carbon-Related Exhaust Emissions	0.08	
	Drive Trace Absolute Speed Change Rating	1.242	
	Drive Trace Energy Economy Rating	1.292	
	Drive Trace Inertia Work Ratio Rating	0.976	
	Integrated Amp-hours	137.537	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00009	
	Non-methane Hydrocarbon	0.00011	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	137.537	
	System Start State of Charge Watt-hours	130.749	
	Total Hydrocarbon	0.00047	
Charge Depleting Bag/Phase #22			

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.435	
	Average System Voltage	354.087	
	CH4 - Methane	0.00278	
	Carbon Monoxide	0.09641	
	Carbon dioxide	66.702	
	Carbon-Related Exhaust Emissions	66.94	
	Drive Trace Absolute Speed Change Rating	0.606	
	Drive Trace Energy Economy Rating	0.919	
	Drive Trace Inertia Work Ratio Rating	0.407	
	Integrated Amp-hours	143.865	
	Manufacturer Fuel Economy	129.7435	
	Nitrogen Oxide	0.00126	
	Non-methane Hydrocarbon	0.0266	
	Non-methane organic gases	0.0292	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	143.865	
	System Start State of Charge Watt-hours	137.537	
	Total Hydrocarbon	0.02928	
	Charge Depleting Bag/Phase #23		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN																																						
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.44</td></tr><tr><td>Average System Voltage</td><td>354.527</td></tr><tr><td>CH4 - Methane</td><td>0.00166</td></tr><tr><td>Carbon Monoxide</td><td>0.04975</td></tr><tr><td>Carbon dioxide</td><td>288.34</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>288.42</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>1.555</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.868</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.674</td></tr><tr><td>Integrated Amp-hours</td><td>144.676</td></tr><tr><td>Manufacturer Fuel Economy</td><td>30.2852</td></tr><tr><td>Nitrogen Oxide</td><td>0.00035</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>144.676</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>143.865</td></tr><tr><td>Total Hydrocarbon</td><td>0.00149</td></tr></table>			Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.44	Average System Voltage	354.527	CH4 - Methane	0.00166	Carbon Monoxide	0.04975	Carbon dioxide	288.34	Carbon-Related Exhaust Emissions	288.42	Drive Trace Absolute Speed Change Rating	1.555	Drive Trace Energy Economy Rating	1.868	Drive Trace Inertia Work Ratio Rating	1.674	Integrated Amp-hours	144.676	Manufacturer Fuel Economy	30.2852	Nitrogen Oxide	0.00035	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	144.676	System Start State of Charge Watt-hours	143.865	Total Hydrocarbon	0.00149
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Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10094390	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/12/2026	Fuel	N/A
Fuel Batch ID	11494	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	5568	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	235	Recharge Event Energy (kiloWatt-hours)	61.3368
Charge Depleting Range (Calculated miles)	143.508	Charge Depleting Range (Actual miles)	143.508
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	147.297	Equivalent All Electric Range (miles)	148.342
Number of Charge Depleting Bags/Phases Conducted	16	Transition Bag/Phase Number	15
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.279	
	Average System Voltage	392.615	
	CH4 - Methane	0.00006	
	Carbon Monoxide	0	
	Carbon dioxide	0.128	
	Carbon-Related Exhaust Emissions	0.13	
	Drive Trace Absolute Speed Change Rating	-5.654	
	Drive Trace Energy Economy Rating	-0.132	
	Drive Trace Inertia Work Ratio Rating	-6.537	
	Integrated Amp-hours	10.533	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00031	
	Non-methane organic gases	0.0003	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	10.533	
	System Start State of Charge Watt-hours	0	
	Total Hydrocarbon	0.00037	
	Charge Depleting Bag/Phase #2		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.267	
	Average System Voltage	391.273	
	CH4 - Methane	0.00008	
	Carbon Monoxide	0.00061	
	Carbon dioxide	0.187	
	Carbon-Related Exhaust Emissions	0.19	
	Drive Trace Absolute Speed Change Rating	-6.068	
	Drive Trace Energy Economy Rating	-0.858	
	Drive Trace Inertia Work Ratio Rating	-7.036	
	Integrated Amp-hours	20.239	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00008	
	Non-methane Hydrocarbon	0.00007	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	20.239	
	System Start State of Charge Watt-hours	10.533	
	Total Hydrocarbon	0.00014	
	Charge Depleting Bag/Phase #3		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.27	
	Average System Voltage	390.188	
	CH4 - Methane	0.0001	
	Carbon Monoxide	0.00022	
	Carbon dioxide	0.083	
	Carbon-Related Exhaust Emissions	0.08	
	Drive Trace Absolute Speed Change Rating	-2.872	
	Drive Trace Energy Economy Rating	-0.518	
	Drive Trace Inertia Work Ratio Rating	-3.24	
	Integrated Amp-hours	29.893	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00003	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	29.893	
	System Start State of Charge Watt-hours	20.239	
	Total Hydrocarbon	0.00013	
Charge Depleting Bag/Phase #4			

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.257	
	Average System Voltage	388.822	
	CH4 - Methane	0.00017	
	Carbon Monoxide	0.00033	
	Carbon dioxide	0.029	
	Carbon-Related Exhaust Emissions	0.03	
	Drive Trace Absolute Speed Change Rating	-6.112	
	Drive Trace Energy Economy Rating	-0.543	
	Drive Trace Inertia Work Ratio Rating	-6.886	
	Integrated Amp-hours	39.495	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	39.495	
	System Start State of Charge Watt-hours	29.893	
	Total Hydrocarbon	0.00012	
	Charge Depleting Bag/Phase #5		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.269	
	Average System Voltage	386.285	
	CH4 - Methane	0.00013	
	Carbon Monoxide	0	
	Carbon dioxide	0.05	
	Carbon-Related Exhaust Emissions	0.05	
	Drive Trace Absolute Speed Change Rating	-6.863	
	Drive Trace Energy Economy Rating	-0.64	
	Drive Trace Inertia Work Ratio Rating	-8.064	
	Integrated Amp-hours	49.354	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00022	
	Non-methane organic gases	0.0002	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	49.354	
	System Start State of Charge Watt-hours	39.495	
	Total Hydrocarbon	0.00034	
	Charge Depleting Bag/Phase #6		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.274	
	Average System Voltage	382.634	
	CH4 - Methane	0.00007	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-5.224	
	Drive Trace Energy Economy Rating	-0.657	
	Drive Trace Inertia Work Ratio Rating	-5.642	
	Integrated Amp-hours	59.116	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0.00001	
	Non-methane Hydrocarbon	0.00006	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	59.116	
	System Start State of Charge Watt-hours	49.354	
	Total Hydrocarbon	0.00012	
	Charge Depleting Bag/Phase #7		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.268	
	Average System Voltage	378.505	
	CH4 - Methane	0.00018	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-4.949	
	Drive Trace Energy Economy Rating	-0.584	
	Drive Trace Inertia Work Ratio Rating	-5.618	
	Integrated Amp-hours	68.914	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	68.914	
	System Start State of Charge Watt-hours	59.116	
	Total Hydrocarbon	0.00009	
	Charge Depleting Bag/Phase #8		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.256	
	Average System Voltage	374.679	
	CH4 - Methane	0.00012	
	Carbon Monoxide	0.00001	
	Carbon dioxide	0.004	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-5.551	
	Drive Trace Energy Economy Rating	-0.541	
	Drive Trace Inertia Work Ratio Rating	-6.215	
	Integrated Amp-hours	78.805	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00001	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	78.805	
	System Start State of Charge Watt-hours	68.914	
	Total Hydrocarbon	0.00013	
	Charge Depleting Bag/Phase #9		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.264	
	Average System Voltage	371.562	
	CH4 - Methane	0.00003	
	Carbon Monoxide	0	
	Carbon dioxide	0.034	
	Carbon-Related Exhaust Emissions	0.03	
	Drive Trace Absolute Speed Change Rating	-3.704	
	Drive Trace Energy Economy Rating	-0.267	
	Drive Trace Inertia Work Ratio Rating	-3.915	
	Integrated Amp-hours	88.943	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00013	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	88.943	
	System Start State of Charge Watt-hours	78.805	
	Total Hydrocarbon	0.0003	
	Charge Depleting Bag/Phase #10		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.263	
	Average System Voltage	368.247	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0.004	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-6.439	
	Drive Trace Energy Economy Rating	-0.758	
	Drive Trace Inertia Work Ratio Rating	-7.262	
	Integrated Amp-hours	98.99	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00009	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	98.99	
	System Start State of Charge Watt-hours	88.943	
	Total Hydrocarbon	0.00009	
	Charge Depleting Bag/Phase #11		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.263	
	Average System Voltage	365.213	
	CH4 - Methane	0.00006	
	Carbon Monoxide	0.00085	
	Carbon dioxide	0.091	
	Carbon-Related Exhaust Emissions	0.09	
	Drive Trace Absolute Speed Change Rating	-7.82	
	Drive Trace Energy Economy Rating	-0.816	
	Drive Trace Inertia Work Ratio Rating	-9.225	
	Integrated Amp-hours	109.098	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	109.098	
	System Start State of Charge Watt-hours	98.99	
	Total Hydrocarbon	0.00011	
	Charge Depleting Bag/Phase #12		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.26	
	Average System Voltage	361.788	
	CH4 - Methane	0.00001	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-4.678	
	Drive Trace Energy Economy Rating	-0.535	
	Drive Trace Inertia Work Ratio Rating	-5.198	
	Integrated Amp-hours	119.284	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.00011	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	119.284	
	System Start State of Charge Watt-hours	109.098	
	Total Hydrocarbon	0.00012	
	Charge Depleting Bag/Phase #13		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.257	
	Average System Voltage	357.97	
	CH4 - Methane	0.00009	
	Carbon Monoxide	0	
	Carbon dioxide	0.024	
	Carbon-Related Exhaust Emissions	0.02	
	Drive Trace Absolute Speed Change Rating	-6.766	
	Drive Trace Energy Economy Rating	-0.708	
	Drive Trace Inertia Work Ratio Rating	-7.533	
	Integrated Amp-hours	129.766	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.0002	
	Non-methane organic gases	0.0002	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	129.766	
	System Start State of Charge Watt-hours	119.284	
	Total Hydrocarbon	0.00028	
	Charge Depleting Bag/Phase #14		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.253	
	Average System Voltage	354.045	
	CH4 - Methane	0.0001	
	Carbon Monoxide	0	
	Carbon dioxide	0.016	
	Carbon-Related Exhaust Emissions	0.02	
	Drive Trace Absolute Speed Change Rating	-5.785	
	Drive Trace Energy Economy Rating	-1.001	
	Drive Trace Inertia Work Ratio Rating	-6.577	
	Integrated Amp-hours	140.143	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	140.143	
	System Start State of Charge Watt-hours	129.766	
	Total Hydrocarbon	0.0001	
	Charge Depleting Bag/Phase #15		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.259	
	Average System Voltage	352.217	
	CH4 - Methane	0.00422	
	Carbon Monoxide	0.13967	
	Carbon dioxide	165.387	
	Carbon-Related Exhaust Emissions	165.67	
	Drive Trace Absolute Speed Change Rating	-5.627	
	Drive Trace Energy Economy Rating	-0.663	
	Drive Trace Inertia Work Ratio Rating	-6.01	
	Integrated Amp-hours	145.896	
	Manufacturer Fuel Economy	52.7867	
	Nitrogen Oxide	0.00049	
	Non-methane Hydrocarbon	0.01611	
	Non-methane organic gases	0.0166	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	145.896	
	System Start State of Charge Watt-hours	140.143	
	Total Hydrocarbon	0.02017	
	Charge Depleting Bag/Phase #16		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.264	
	Average System Voltage	354.847	
	CH4 - Methane	0.00432	
	Carbon Monoxide	0.27584	
	Carbon dioxide	352.654	
	Carbon-Related Exhaust Emissions	353.1	
	Drive Trace Absolute Speed Change Rating	-4.523	
	Drive Trace Energy Economy Rating	-0.328	
	Drive Trace Inertia Work Ratio Rating	-4.902	
	Integrated Amp-hours	143.858	
	Manufacturer Fuel Economy	24.6838	
	Nitrogen Oxide	0.00007	
	Non-methane Hydrocarbon	0.00056	
	Non-methane organic gases	0.0006	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	143.858	
	System Start State of Charge Watt-hours	145.896	
	Total Hydrocarbon	0.00473	
Manufacturer Test Comments	cE10; % of Depleted Battery Capacity in Phase 16: -1.42%		

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN									
Emission Data Vehicle Information												
Vehicle ID / Configuration	L5DTS2042 / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	VCRXT03.6543	Original Evaporative/Refueling Family	VCRXR0202FEN									
Original Test Vehicle Model Year	2027											
Vehicle Model												
Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	1500 Ramcharger 4x4									
Leak Family Details												
Leak Family Identifier	--	Leak Family Name	--									
Drive Sources and Fuel System Details												
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
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	Yes											
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-0200	Rated Horsepower	255									
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	All Wheel Drive									
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)									
Curb Weight (lbs)	7972	Equivalent Test Weight (pounds)	8500									
GVWR (lbs)	9700	N/V Ratio	158									
Axle Ratio	9.99											
Transmission Type	Automatic	# of Transmission Gears	1									
Transmission Lockup	No	Creeper Gear	No									
Dynamometer Coefficients:												
	Target Coefficients		Set Coefficients									
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)									
City/Highway/Evap	66.17	-0.1285	0.04094									
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)									
	3.63	-0.3462	0.03903									
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients											
	21.6											

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	callout: 27EV-T03.6543-1; Axle Ratio = 15								
Test #	VCRX10093290	Test Procedure	23 - 2-day evap						
Exhaust Test # for this Evap Test	VCRX10093287	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	01/16/2026	Fuel	Gasoline						
Fuel Batch ID	11459	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	3418	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>0.204282</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.204282	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.204282	--							
Manufacturer Test Comments									
Callout: 27EV-T03.6543-1; Cert 2-Day/Evap (E10) Hot_Soak_HC_(g) = 0.01547, Diurnal (g) = 0.17368; 2DayTotal = (0.01547+0.17368)*1.08 = 0.204282(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	0.2043	0.0057	0.210	0.500	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.2043	0.0057	0.210	0.500	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10093292	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	VCRX10093288	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/22/2026	Fuel	Gasoline
Fuel Batch ID	11459	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	3470	Odometer Units	M
4WD Test Dyno	Yes	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)	0.4238352	--

Manufacturer Test Comments

Callout: 27EV-T03.6543-1; Cert 3-Day/Evap (E10) Hot_Soak_HC_(g) = 0.14580 , Diurnal (g) = 0.24664; 3DayTotal = (0.14580+0.24664)*1.08 = 0.4238352 (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	0.4238	0.0090	0.433	0.500	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.4238	0.0090	0.433	0.500	Pass

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Test #	VCRX10093291	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	VCRX10093288	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/22/2026	Fuel	Gasoline
Fuel Batch ID	11459	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	3453	Odometer Units	M
4WD Test Dyno	Yes	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)	0.0008424	--

Manufacturer Test Comments

Callout: 27EV-T03.6543-1; Cert 3-Day/Evap RL test(E10) RL=(0.00078 *1.08)=0.0008424

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	0.001	0.000	0.00	0.05	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.001	0.000	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN						
Test #	VCRX10093293	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	VCRX10093289	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	02/11/2026	Fuel	Gasoline						
Fuel Batch ID	11459	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	CPG								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	3473	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 (Hydrocarbon for Running Loss and ORVR)</td> <td>0</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC (Hydrocarbon for Running Loss and ORVR)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC (Hydrocarbon for Running Loss and ORVR)	0	--							
Manufacturer Test Comments									
Callout: 27EV-T03.6543-1; Cert ORVR(cE10) ORVR = 0.0000 *1.08 = 0.0000 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	0.000	0.000	0.00	0.20	Pass	
CA	150,000 miles	Other	HC	0.000	0.000	0.00	0.20	Pass	

Certification Summary Information Report

Test Group	VCRXT03.6543	Evaporative/Refueling Family	VCRXR0177FEN
Fuel Properties			
Fuel Batch ID	11459	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/17/2025
Fuel Batch Calibration Effective Date	11/17/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.828	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)	41.347	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	11494	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	04/14/2026
Fuel Batch Calibration Effective Date	04/14/2026	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.828	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 (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.487	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	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		VCRXT03.6543			Evaporative/Refueling Family		VCRXR0177FEN		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		MDPV			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		MDPV			Standard Level		Federal Tier 3 Bin 30		
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	1.0
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	0.030
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		VCRXT03.6543			Evaporative/Refueling Family			VCRXR0177FEN	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			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	1.0
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	0.030
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		MDPV			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	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			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	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999

Certification Summary Information Report

Test Group		VCRXT03.6543			Evaporative/Refueling Family			VCRXR0177FEN	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			Federal 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	CREE	--	--	--	--	--	1	0	999
150,000 miles	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			Standard Level			Federal Tier 3 Bin 30	
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		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			Standard Level			Other	
Fuel		Gasoline			Test Procedure			Federal 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	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010

Certification Summary Information Report

Test Group		VCRXT03.6543			Evaporative/Refueling Family			VCRXR0177FEN	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			Standard Level			Federal Tier 3 Bin 30	
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	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			Standard Level			Federal Tier 3 Bin 30	
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		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDPV			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		MDPV			Standard Level			Federal Tier 3 Bin 30	
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	0.5

Certification Summary Information Report

Test Group		VCRXT03.6543		Evaporative/Refueling Family		VCRXR0177FEN	
Evaporative/Refueling Standards							
Evaporative/Refueling Family		VCRXR0177FEN		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		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		VCRXR0177FEN		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal 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		VCRXR0177FEN		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal 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		VCRXR0177FEN		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		Federal 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		VCRXR0177FEN		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		

Certification Summary Information Report

Test Group		VCRXT03.6543		Evaporative/Refueling Family		VCRXR0177FEN	
Evaporative/Refueling Family		VCRXR0177FEN		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		Federal 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		VCRXR0177FEN		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		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		VCRXR0177FEN		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		

Certification Summary Information Report

Test Group		VCRXT03.6543	Evaporative/Refueling Family		VCRXR0177FEN
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		VCRXT03.6543	Evaporative/Refueling Family		VCRXR0177FEN
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		VCRXT03.6543	Evaporative/Refueling Family		VCRXR0177FEN
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		VCRXT03.6543	Evaporative/Refueling Family		VCRXR0177FEN
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 - VCRXT03.6543

EPA COMP CODE	AA-1700	AA-1800
E00:Electric Vehicle Charging Cable		
E10:Powertrain Control Module		
E19:Electronic Brake Boost Control Module		
E1C:Integrated DC-DC/Charging Module (Software)		
E1G:Electronic Brake Boost Control Module (29-Bit)		
E1I:Power Inverter Module (Hardware)		
E1P:Powertrain Control Module - Hardware		
E1V:EVCU Electric Vehicle Control Unit (Software)		
E29:High Voltage Relay		
E42:TIPM Coolant Pump (HEV)		
E44:High Voltage Battery Coolant Pump		
E48:Electric Drive Motor Assembly		
E49:Battery Pack Control Module (BPCM) Software		
E4B:Battery Heat Exchanger Chiller Assembly		
E4C:Battery Chiller Expansion Valve		
E4G:Low Voltage Battery Thermal Pressure Sensor		
E97:On Board Charging Module (Software)		

EPA COMP CODE	AA-1700	AA-1800
E98:Battery Pack Assembly		
E9C:High Voltage Battery Disconnect Unit		
E9D:High Voltage Busbar		
F01:Fuel Tank		
F15:Fuel Tank Filler Tube		
F40:Throttle Body		
F50:Fuel Injector		
F59:Fuel Pressure Sensor		
F70:Evap. Canister Assembly		
H10:Catalytic Converter		
I05:Spark Plug		
I10:Ignition Coil		
L01:Heated Oxygen Sensor		
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		

EPA COMP CODE	AA-1700	AA-1800
M10:Ambient Temperature Sensor		
M15:Engine Coolant Temperature Sensor		
N17:Crankshaft Target Wheel		
N50:Engine Thermostat		
N97:Vapor Hose Harness		
R09:Transmission Oil Pump Assembly		
T2A:Auxiliary Transmission Oil Cooler		
V01:PCV Valve		
V05:MAP Sensor		
V63:Evap. Can. Purge Solenoid		
Z01:VECI Label		

Section11-100 Engine Parts List

FCA US LLC

Test Group :VCRXT03.6543

Durability Group: VCRXHHGVNF20 Standard Fed: Bin30+ 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
A1	DCD	4F	1	1	1	EL2	N/A		Electronically shifted data on file

Section12-200 Transmission

FCA US LLC

VCRXT03.6543

Durability Group:
VCRXHHGVNF20

Standard Fed: Bin30+ 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-1700

Eng Displ: 3.6L (EL2)

Evap Family - Evap Code: VCRXR0177FEN-20.5

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
WSXA76	Jeep: Grand Wagoneer L REV			A1 - AWD DCD		9600	8500 3857 8036	9000 4331 8818	15	159.8	LT275/50R22E TAK	TZP	23N1711	24.90	21.1	64.56000	-0.0018	0.03755	71.02000	-0.0020	0.04130
WSXA76	Jeep: Grand Wagoneer L REV			A1 - AWD DCD		9800	8500 3895 8126	9000 4370 8963	15	159.8	LT275/50R22E TAK	TZP	23N1711	24.90	21.1	64.56000	-0.0018	0.03755	71.02000	-0.0020	0.04130

Engine Code AA-1800

Eng Displ: 3.6L (EL2)

Evap Family - Evap Code: VCRXR0177FEN-20.5

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
WSXA75	Jeep: Grand Wagoneer REV			A1 - AWD DCD		9450	8000 3759 7867	8500 4261 8659	15	159.8	LT275/50R22E TAK	TZP	23N1711	24.99	21.0	64.56000	-0.0018	0.03732	71.02000	-0.0020	0.04105
WSXA75	Jeep: Grand Wagoneer REV			A1 - AWD DCD		9700	8500 3797 7958	9000 4311 8829	15	159.8	LT275/50R22E TAK	TZP	23N1711	24.90	21.1	64.56000	-0.0018	0.03755	71.02000	-0.0020	0.04130
WSXA75	Jeep: Grand Wagoneer REV			A1 - AWD DCD		9800	8500 3769 8160	9000 4516 8980	15	159.8	LT275/50R22E TAK	TZP	23N1711	24.90	21.1	64.56000	-0.0018	0.03755	71.02000	-0.0020	0.04130

FCA US LLC

Test Group: VCRXT03.6543 - Engine Code Index

Durability Group:
VCRXHHGVNF20

Standard : Bin30+ / NA Vehicle Class: MDPV (8501-10000 GVW, 8501-10000 ALVW) / N/A

Engine Code: AA-1700 - WSXA76 3.6L REPB (EL2) 1-Speed Gear Box (DCD) 20.5 Gallons AWD

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-1700	Original		3.6L/EL2	WS		A1/ Automatic A1 Direct Drive 1-speed	9600	9800	8500	8500	AWD	NAS

Engine Code: AA-1800 - WSXA75 3.6L REPB (EL2) 1-Speed Gear Box (DCD) 20.5 Gallons AWD

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-1800	Original		3.6L/EL2	WS		A1/ Automatic A1 Direct Drive 1-speed	9450	9800	8000	8500	AWD	NAS

Test Group: VCRXT03.6543 - No Engine Code Changes

Durability Group: VCRXHHGVNF20 Standard Fed: Bin30 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

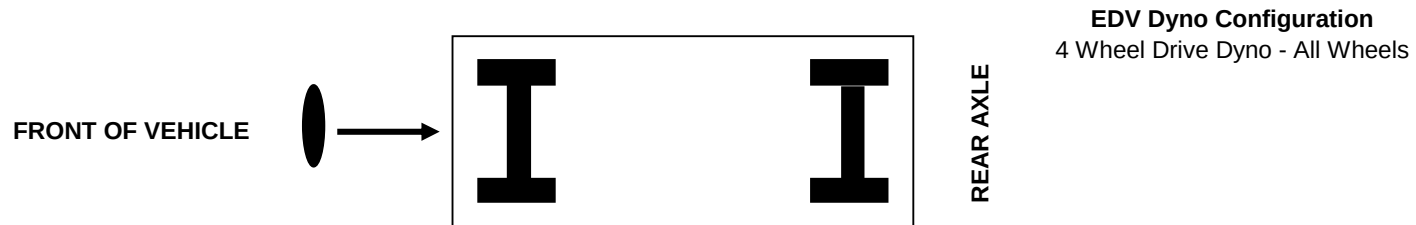
Evaporative Testing Parameters: Model
All Vehicles - 177 grams

Fuel temperature Profile: Models
All Vehicles - eDT_REPB

Special Test Procedure: Models
All - none

FAN POSITION DIAGRAM

All vehicles in Test Group



Test Type	Fan Type	Fan Position	Hood Position
EPA75 HWFE CCO	Fixed – 5300 cfm (2.5 m3/s)	10 inches nominal from bumper/front of vehicle (0 -12 inches)	OPEN
US06	Fixed – 15000 cfm, (7.10 m3/s)		
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



August 4, 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 Certificate of Conformity Request

FCA US LLC requests a 2027 MY Certificate of Conformity for the 3.6L PHEV Interim Tier 4 Federal and 50 State test group VCRXT03.6543 with evaporative family: VCRXR0177FEN. This test group is being certified to Tier 4i BIN 30 standards. FCA US LLC agrees to meet the Tier 4i BIN 30 standards, and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT03.6543. 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 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 4i BIN 30	150K	0.030	1.0	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>
VCRXR0177FEN	150K	0.500	0.500	0.05	0.2	0.02

Initial combined CREE for VCRXT03.6543 test group is = 309.3

The models in this test group are as follows:

Division / Model

Jeep Grand Wagoneer L REV, AWD
Jeep Grand Wagoneer REV, AWD

If there are any questions regarding this submission, please contact Avinash Manivannan at 248.934.7024 or Gary J. Arvan at 248.221.9461.

Sincerely,
FCA US LLC

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

VCRXT03.6543 Part 1 Section 14 - 001 (2027)



June 9, 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 Executive Order Request

FCA US LLC requests a 2027 MY Executive Order for the 3.6L PHEV 50 State test group VCRXT03.6543 with evaporative family: VCRXR0177FEN. 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 Interim Tier 4 requirements as reflected in the enclosed EPA Certificates of Conformity and EPA Certification Summary Information.

FCA US LLC agrees to meet the Tier 4i BIN 30 emission standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT03.6543. 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 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 4i BIN 30	150K	0.030	1.0	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>
VCRXR0177FEN	150K	0.500	0.500	0.05	0.2	0.02

Initial combined CREE for VCRXT03.6543 test group is = 309.3

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 Avinash Manivannan at 248.934.7024 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/acm

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 02/05/2026

Process Code *

Submit New 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

Calendar Year complete application submitted
to EPA *

2026

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2026, through December 31, 2026. The applicable fee is determined by the

calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

VCRXT03.6543

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

- ☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (Federal) (E, H)
- ☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- ☐ On-Highway Motorcycle (C)
- ☐ On-Highway HDV Evap (F)
- ☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
- ☐ Nonroad CI (L)
- ☐ Nonroad SI (B, S)
- ☐ Locomotive (G, K)
- ☐ All Nonroad Recreational, excluding Marine engines (X, Y)
- ☐ All Marine (Including IMO) (M, N, W)
- ☐ Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,317.00

Payment Type *

Offline ACH

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).

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

CARB USE ONLY

Invoice Name	MSF250698
Invoice Date	Jan 15, 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

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	CBI_VCRXD00.0517_APPIPT	Model Year 2027	VCRXD00.0517	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
2	CBI_VCRXT02.0571_APPIPT	Model Year 2027	VCRXT02.0571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
3	CBI_VCRXT02.0572_APPIPT1	Model Year 2027	VCRXT02.0572	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
4	CBI_VCRXV03.0574_APPIPT	Model Year 2027	VCRXV03.0574	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
5	CBI_VCRXT03.0572_APPIPT	Model Year 2027	VCRXT03.0572	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
6	CBI_VCRXT03.0573_APPIPT	Model Year 2027	VCRXT03.0573	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
7	CBI_VCRXT03.6561_APPIPT	Model Year 2027	VCRXT03.6561	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
8	CBI_VCRXT03.6543_APPIPT	Model Year 2027	VCRXT03.6543	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
9	CBI_VCRXD03.6576_APPIPT	Model Year 2027	VCRXD03.6576	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00

10	CBI_VCRXD03.6575_APPIPT	Model Year 2027	VCRXD03.6575	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
11	CBI_VCRXT05.7560_APPIPT	Model Year 2027	VCRXT05.7560	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
12	CBI_VCRXT05.7571_APPIPT	Model Year 2027	VCRXT05.7571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
13	CBI_VCRXT06.2570_APPIPT	Model Year 2027	VCRXT06.2570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
14	CBI_VCRXT06.2571_APPIPT	Model Year 2027	VCRXT06.2571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
15	CBI_VCRXT06.4570_APPIPT	Model Year 2027	VCRXT06.4570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
16	CBI_VCRXT06.4571_APPIPT	Model Year 2027	VCRXT06.4571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
17	CBI_VCRXD06.4572_APPIPT	Model Year 2027	VCRXD06.4572	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
18	CBI_VCRXD06.4573_APPIPT	Model Year 2027	VCRXD06.4573	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
19	CBI_VCRXD06.4574_APPIPT	Model Year 2027	VCRXD06.4574	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
20	CBI_VCRXD06.4575_APPIPT	Model Year 2027	VCRXD06.4575	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
21	CBI_TCRXT03.6565_APPIPT	Model Year 2026	TCRXT03.6565	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
Total Due						\$ 1,016,895.00

I, Gary Anwar (Jan 15, 2026 11:23:45 EST) , 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: Friday, January 30, 2026 10:37 AM
To: PAM BARYLSKI
Subject: [EXTERNAL]MS Fee Payment Confirmation for Invoice MSF250698
Attachments: MSF250698 - 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 MSF250698. 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.

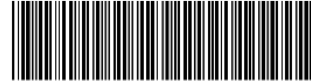
1. Payment ID – 25RA0274
2. Date of Payment – 1/29/2026
3. Payment Status - Paid





2027 50-State (NAS) WS

Test Group: VCRXT03.6543

FCA US LLC		VEHICLE EMISSION CONTROL INFORMATION		CONFORMS TO REGULATIONS: 2027 MY NO ADJUSTMENTS NEEDED
U.S. EPA: T41 B30 MDPV		OBD: CA OBD II	FUEL: GASOLINE/ELECTRICITY	CA: N/A OBD: N/A FUEL: N/A THIS VEHICLE CONFORMS TO FEDERAL REGULATIONS AND IS CERTIFIED FOR SALE IN CALIFORNIA
GROUP: VCRXT03.6543		ENGINE: 3.6L EVAP: VCRXR0177FEN		H02S SFI TWC WR – H02S
68778 012AB				

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

VCRXT03.6543 Part 1 Section 15 - 101 (2027)