

Certification Summary Information Report

Manufacturer	FCA US LLC	Manufacturer Code	CRX
Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Certificate Number	VCRXT01.6551-046	CARB Executive Order #	--
Certificate Issue Date	06/26/2026	Certificate Revision Date	--
Certificate Effective Date	06/26/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	06/29/2026 08:04:35 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
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Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Drive Source #2: Electric Motor

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDT2
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	VCRXHHGNNF03	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	08/17/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
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	VCRXT01.6551
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	4
OBD Deficiencies Comments	1. SAE J1979-2 implementation 2. Adaptive cruise control and parallel park systems default action 3. Evaporative leak detection, purge flow, and high flow purge monitors Mode \$06 reporting 4. Vehicle operation tracking lifetime counters implementation		
Mfr Test Group Comments	T4iBIN30 E10 - City Litmus Value: 31.6; City Litmus Threshold: 30.7; Hwy Litmus Value: 29.7; Hwy Litmus Threshold: 29.1 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 VCRXT01.6551		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	05/08/2026 10:01:47 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)	113	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				
VCRXR0108FEJ-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	530 - Cherokee AWD	California + CAA Section 177 states	All Wheel Drive	Continuously Variable	1	No
FCA US LLC	5 - Jeep	530 - Cherokee AWD	Federal	All Wheel Drive	Continuously Variable	1	No
Engine Description							
Hybrid Type	IC Engine/Electric Motor			Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition			Mfr Engine Description	--		
Engine Block Arrangement	Inline			Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No			Oil Viscosity/Classification	0W-20		
Number of Cylinders/Rotors	4			Mechanically Variable Compression Ratio Indicator	N		

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Test Group		VCRXT01.6551		Evaporative/Refueling Family		VCRXR0108FEJ					
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)		1.6		Engine Rated Horsepower		170					
Number of Inlet Valves Per Cylinder		2		Number of Exhaust Valves Per Cylinder		2					
Air Aspiration Method		Turbocharged		Number of Air Aspiration Devices		1					
Air Aspiration Device Configuration		Single		Charge Air Cooler Type		Liquid					
Air Aspiration Drive Method(s)		Mechanical									
Cylinder Deactivation		No									
Cylinder Deactivation Description		--									
Variable Valve Timing		Yes									
Variable Valve Timing System Description		Electrohydraulic Cam Phasors									
Variable Valve Lift?		No									
Variable Valve Lift System Description		--									
Number of Knock Sensors		1		Number of Air/Fuel Sensors		2					
Air/Fuel Sensor # 1 Type		Heated oxygen		Air/Fuel Sensor # 1 Description		--					
Air/Fuel Sensor # 2 Type		Heated oxygen		Air/Fuel Sensor # 2 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 if 'Other'		--					
Air Injection Type		Not Applicable									
Mfr Engine Configuration Comments		--									
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	TCRX10092452	TCRX10092454	TCRX10092278	TCRX10092279	TCRX10092453	31.4	30.9	29.7	29.2	1	
Electricity	--	--	--	--	--	--	--	--	--	--	

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Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	TCRX10092452	TCRX10092454	TCRX10092278
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	304	Battery Energy Capacity	51
Battery Specific Energy	16	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	DC Permanent Magnet, brushless	Rated Motor/Generator Power	117
Motor/Generator Type 2	DC Permanent Magnet, brushless	Rated Motor/Generator Power	134
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Capacitor specifications - Battery side 315uF, Inverter side 1115uF		

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Emission Data Vehicle Information

Vehicle ID / Configuration	L5KMJ5201 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TCRXT01.6550	Original Evaporative/Refueling Family	TCRXR0108FEJ
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Jeep	Represented Test Vehicle Model	Cherokee AWD
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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	No		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AA-1000	Rated Horsepower	170
Displacement (liters)	1.6		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Liquid	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	4298	Equivalent Test Weight (pounds)	4500
GVWR (lbs)	5300	N/V Ratio	50.5
Axle Ratio	4.16		
Transmission Type	Continuously Variable	# of Transmission Gears	1
Transmission Lockup	No	Creep Gear	No

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Test Group		VCRXT01.6551			Evaporative/Refueling Family		VCRXR0108FEJ	
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	36.78	0.1864	0.02702	-3.61	0.3892	0.01959	15.2	
Cold CO	40.46	0.205	0.02972	-14.08	0.3709	0.02169	N/A	
US06	36.78	0.1864	0.02702	-3.61	0.3892	0.01959	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		callout: 26DA-T01.6550-1						

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Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092276	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	08/25/2025	Fuel	Gasoline
Fuel Batch ID	11438	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5302	Odometer Units	M
4WD Test Dyno	Yes	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	237.44	--
FE BAG 1 (Bag 1 Fuel Economy)	37.53	37.53
CO2 BAG 2 (Bag 2 Carbon Dioxide)	237.44	--
FE BAG 2 (Bag 2 Fuel Economy)	37.53	37.53
CO2 BAG 3 (Bag 3 Carbon Dioxide)	200.5	--
FE BAG 3 (Bag 3 Fuel Economy)	44.43	44.43
CO2 BAG 4 (Bag 4 Carbon Dioxide)	200.5	--
FE BAG 4 (Bag 4 Fuel Economy)	44.43	44.43
METHANE (CH4 - Methane)	0.004009	--
CO (Carbon Monoxide)	0.0461	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.1774	--
DT-EER (Drive Trace Energy Economy Rating)	0.3598	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.5291	--
MFR FE (Manufacturer Fuel Economy)	41.2	41.2
NOX (Nitrogen Oxide)	0.010731	--
N2O (Nitrous Oxide)	0.000333	--
HC-NM (Non-methane Hydrocarbon)	0.00625	--
NMOG (Non-methane organic gases)	0.0065	--
HC-TOTAL (Total Hydrocarbon)	0.009782	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	216	216

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Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092279	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	08/29/2025	Fuel	Gasoline
Fuel Batch ID	11425	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5444	Odometer Units	M
4WD Test Dyno	Yes	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			

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Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ																																																																											
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>395.77</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.827661</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>21.78</td><td>21.78</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.021029</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.1958</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>248.57</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>34.87</td><td>34.87</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.004347</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0004</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>275.84</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.034591</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>31.43</td><td>31.43</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.002744</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.00736</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.180791</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.7695</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.1652</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.9035</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>30.2</td><td>30.2</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.014691</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.03707</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0407</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	395.77	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.827661	--	FE BAG 1 (Bag 1 Fuel Economy)	21.78	21.78	CH4 BAG 1 (Bag 1 Methane)	0.021029	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1958	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	248.57	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	FE BAG 2 (Bag 2 Fuel Economy)	34.87	34.87	CH4 BAG 2 (Bag 2 Methane)	0.004347	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0004	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	275.84	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.034591	--	FE BAG 3 (Bag 3 Fuel Economy)	31.43	31.43	CH4 BAG 3 (Bag 3 Methane)	0.002744	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.00736	--	CO (Carbon Monoxide)	0.180791	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7695	--	DT-EER (Drive Trace Energy Economy Rating)	0.1652	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.9035	--	MFR FE (Manufacturer Fuel Economy)	30.2	30.2	NOX (Nitrogen Oxide)	0.014691	--	HC-NM (Non-methane Hydrocarbon)	0.03707	--	NMOG (Non-methane organic gases)	0.0407	--		
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Carbon dioxide	286.5196541	--																																																																												
Manufacturer Test Comments	26DA-T01.6550-1 city rerun 150k Auto ESSon WLTP CCO; Corrected CO2/FE for NEC; NECFR=-0.07%																																																																													

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Test Group		VCRXT01.6551			Evaporative/Refueling Family					VCRXR0108FEJ		
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	0.18	--	--	--	0	1	0.2	12.5	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	HC-NM	0.04	--	--	--	0	1	0	0.3	Pass
CA	50,000 miles	Other	CO	0.18	--	--	--	0	1	0.2	12.5	Pass

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Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092452	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	10/10/2025	Fuel	Gasoline
Fuel Batch ID	48154	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5614	Odometer Units	M
4WD Test Dyno	Yes	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			

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Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	246.3026123	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.2358461	--	
FE BAG 1 (Bag 1 Fuel Economy)	41.0074771	41.0074771	
CH4 BAG 1 (Bag 1 Methane)	0.0079999	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0340612	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	178.399765	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	
FE BAG 2 (Bag 2 Fuel Economy)	41.0074771	41.0074771	
CH4 BAG 2 (Bag 2 Methane)	0.0043861	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0000551	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	221.8638611	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0	--	
FE BAG 3 (Bag 3 Fuel Economy)	44.0549993	44.0549993	
CH4 BAG 3 (Bag 3 Methane)	0.0023128	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	175.8236084	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0	--	
FE BAG 4 (Bag 4 Fuel Economy)	44.0549993	44.0549993	
CH4 BAG 4 (Bag 4 Methane)	0.0033611	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0002022	--	
METHANE (CH4 - Methane)	0.0042652	--	
CO (Carbon Monoxide)	0.0490254	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.1424495	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.6393883	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.8333827	--	
MFR FE (Manufacturer Fuel Economy)	42.6907733	42.6907733	
NOX (Nitrogen Oxide)	0.0056659	--	
N2O (Nitrous Oxide)	0.000569	--	
HC-NM (Non-methane Hydrocarbon)	0.0065028	--	
NMOG (Non-methane organic gases)	0.0071378	--	
PM (Particulate Matter)	0.0002145	--	
HC-TOTAL (Total Hydrocarbon)	0.0106492	--	

Certification Summary Information Report

Test Group		VCRXT01.6551			Evaporative/Refueling Family				VCRXR0108FEJ			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		9999.9999999		204						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		203.6917114		--						
Manufacturer Test Comments		NEC Corrected Results from test# TCRX91006627. FE BAGS and MFR FE are NEC Corrected. All other values are raw/uncorrected for NEC. NEC Corrected CO2=204. NEC Corrected CREE=204.Bag1FE=Bag2FE=UDDS1; Bag3FE=Bag4FE=UDDS2										
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	0.05	--	--	--	0	1	0	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.04	--	--	--	0	1	0	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	204	--	--	--	0	1	204	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0043	--	--	--	0	1	0.004	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0006	--	--	--	0	1	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0071	--	--	--	0	1	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0128	--	--	--	--	--	0.013	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0072	--	--	--	0	1	0.007	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0057	--	--	--	0	1	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0002	--	--	--	0	1	0	0.003	Pass
CA	150,000 miles	Other	CO	0.05	--	--	--	0	1	0	1.0	Pass
CA	150,000 miles	Other	CO-COMP	0.04	--	--	--	0	1	0	4.2	Pass
CA	150,000 miles	Other	METHANE	0.0043	--	--	--	0	1	0.004	0.030	Pass
CA	150,000 miles	Other	N2O	0.0006	--	--	--	0	1	0.001	0.010	Pass
CA	150,000 miles	Other	NMOG	0.0071	--	--	--	0	1	0.007	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0128	--	--	--	--	--	0.013	0.030	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0072	--	--	--	0	1	0.007	0.030	Pass
CA	150,000 miles	Other	NOX	0.0057	--	--	--	0	1	0.006	999.999	Pass
CA	150,000 miles	Other	PM	0.0002	--	--	--	0	1	0	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	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092277	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	08/25/2025	Fuel	Gasoline
Fuel Batch ID	11438	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5317	Odometer Units	M
4WD Test Dyno	Yes	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)
METHANE (CH4 - Methane)	0.000882	--
CO (Carbon Monoxide)	0.002856	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.1343	--
DT-EER (Drive Trace Energy Economy Rating)	-0.132	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.6308	--
MFR FE (Manufacturer Fuel Economy)	45.4	45.4
NOX (Nitrogen Oxide)	0.000647	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.000768	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	197	197

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	196.7608584	--

Manufacturer Test Comments

26DA-T01.6550-1 hwy 150k Auto ESSon WLTP E0; Corrected CO2/FE for NEC; NECFR=0.13%

Certification Summary Information Report

Test Group		VCRXT01.6551			Evaporative/Refueling Family					VCRXR0108FEJ		
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	197	--	--	--	0	1	197	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	--	--	0	1	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0006	--	--	--	--	--	0.001	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0006	--	--	--	0	1	0.001	999.999	Pass
CA	150,000 miles	Other	NMOG	0	--	--	--	0	1	0	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0006	--	--	--	--	--	0.001	0.030	Pass
CA	150,000 miles	Other	NOX	0.0006	--	--	--	0	1	0.001	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	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092453	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	10/03/2025	Fuel	Gasoline
Fuel Batch ID	48154	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5565	Odometer Units	M
4WD Test Dyno	Yes	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)
METHANE (CH4 - Methane)	0.0003934	--
CO (Carbon Monoxide)	0.0151731	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.0482097	--
DT-EER (Drive Trace Energy Economy Rating)	0.497482	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.844358	--
MFR FE (Manufacturer Fuel Economy)	43.8797229	43.8797229
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0.0000942	--
HC-NM (Non-methane Hydrocarbon)	0.0007105	--
NMOG (Non-methane organic gases)	0.0007318	--
HC-TOTAL (Total Hydrocarbon)	0.0010916	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	199

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	199.2100983	--

Manufacturer Test Comments

NEC Corrected Results from test# TCRX91006623. MFR FE is NEC Corrected. All other values are raw/uncorrected for NEC. NEC Corrected CO2=199. NEC Corrected CREE=199.

Certification Summary Information Report

Test Group		VCRXT01.6551			Evaporative/Refueling Family					VCRXR0108FEJ		
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	199	--	--	--	0	1	199	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0007	--	--	--	0	1	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0007	--	--	--	--	--	0.001	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0	--	--	--	0	1	0	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0007	--	--	--	0	1	0.001	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0007	--	--	--	--	--	0.001	0.030	Pass
CA	150,000 miles	Other	NOX	0	--	--	--	0	1	0	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	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092454	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	10/03/2025	Fuel	Gasoline
Fuel Batch ID	48154	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5590	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ																																																																								
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>391.2050476</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.2651175</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>25.2794485</td><td>25.2794485</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0061282</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0063937</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>260.2089233</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>31.7568501</td><td>31.7568501</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.000519</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0008969</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0017563</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0584821</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-0.4000627</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.2162824</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-0.7083208</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>30.0450106</td><td>30.0450106</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.002991</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0007927</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.002048</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0021095</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0003201</td><td>--</td></tr><tr><td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td><td>0.005039</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0037493</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	391.2050476	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.2651175	--	FE BAG 1 (Bag 1 Fuel Economy)	25.2794485	25.2794485	CH4 BAG 1 (Bag 1 Methane)	0.0061282	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0063937	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	260.2089233	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	FE BAG 2 (Bag 2 Fuel Economy)	31.7568501	31.7568501	CH4 BAG 2 (Bag 2 Methane)	0.000519	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0008969	--	METHANE (CH4 - Methane)	0.0017563	--	CO (Carbon Monoxide)	0.0584821	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.4000627	--	DT-EER (Drive Trace Energy Economy Rating)	-1.2162824	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.7083208	--	MFR FE (Manufacturer Fuel Economy)	30.0450106	30.0450106	NOX (Nitrogen Oxide)	0.002991	--	N2O (Nitrous Oxide)	0.0007927	--	HC-NM (Non-methane Hydrocarbon)	0.002048	--	NMOG (Non-methane organic gases)	0.0021095	--	PM (Particulate Matter)	0.0003201	--	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.005039	--	HC-TOTAL (Total Hydrocarbon)	0.0037493	--		
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																								
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>289.1052856</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	289.1052856	--																																																																			
	Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																								
	Carbon dioxide	289.1052856	--																																																																								
	Manufacturer Test Comments	NEC Corrected Results from test# TCRX91006622. MFR FE is NEC Corrected. All other values are raw/uncorrected for NEC. NEC Corrected CO2=290. NEC Corrected CREE=290.																																																																									

Certification Summary Information Report

Test Group		VCRXT01.6551				Evaporative/Refueling Family				VCRXR0108FEJ		
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	0.06	--	--	--	0	1	0.1	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0021	--	--	--	0	1	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.003	--	--	--	0	1	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0	1	0	0.006	Pass
CA	150,000 miles	Other	CO	0.06	--	--	--	0	1	0.1	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0021	--	--	--	0	1	0.002	999.999	Pass
CA	150,000 miles	Other	NOX	0.003	--	--	--	0	1	0.003	999.999	Pass
CA	150,000 miles	Other	PM	0.0003	--	--	--	0	1	0	0.006	Pass

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092278	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	08/27/2025	Fuel	Gasoline
Fuel Batch ID	11439	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5361	Odometer Units	M
4WD Test Dyno	Yes	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)
METHANE (CH4 - Methane)	0.003838	--
CO (Carbon Monoxide)	0.005185	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.221	--
DT-EER (Drive Trace Energy Economy Rating)	-1.091	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.868	--
MFR FE (Manufacturer Fuel Economy)	30.3	30.3
NOX (Nitrogen Oxide)	0.003636	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.002954	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	286	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	287.9313407	--

Manufacturer Test Comments

26DA-T01.6550-1 sc03 rerun 150k Auto ESSon WLTP LEV IV cE10; Corrected CO2/FE for NEC; NECFR=-0.31%

Certification Summary Information Report

Test Group		VCRXT01.6551				Evaporative/Refueling Family				VCRXR0108FEJ		
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	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	--	--	0	1	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0036	--	--	--	0	1	0.004	999.999	Pass
CA	150,000 miles	Other	CO	0.01	--	--	--	0	1	0	999.9	Pass
CA	150,000 miles	Other	NMOG	0	--	--	--	0	1	0	999.999	Pass
CA	150,000 miles	Other	NOX	0.0036	--	--	--	0	1	0.004	999.999	Pass

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
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Emission Data Vehicle Information

Vehicle ID / Configuration	L5KMJ5753 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TCRXT01.6550	Original Evaporative/Refueling Family	TCRXR0108FEJ
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Jeep	Represented Test Vehicle Model	Cherokee AWD
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Leak Family Details

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

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AA-1000	Rated Horsepower	170
Displacement (liters)	1.6		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Liquid	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Equipped, not shifted by SIL	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	4298	Equivalent Test Weight (pounds)	4500
GVWR (lbs)	5300	N/V Ratio	50.5
Axle Ratio	4.16		
Transmission Type	Continuously Variable	# of Transmission Gears	1
Transmission Lockup	No	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	36.78	0.1864	0.02702	-2.17	0.3322	0.0193	15.2

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	callout: 26EV-T01.6550-1								
Test #	TCRX10092293	Test Procedure	23 - 2-day evap						
Exhaust Test # for this Evap Test	TCRX10092287	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	08/22/2025	Fuel	Gasoline						
Fuel Batch ID	11406	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	3982	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									
<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>0.15282</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.15282	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.15282	--							
Manufacturer Test Comments	Callout: 26EV-T01.6550-1; Cert 2-Day/Evap (E10) Hot_Soak_HC_(g) = 0.0288, Diurnal (g) = 0.1127; 2DayTotal = (0.0288+0.1127)*1.08 = 0.15282(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	0.1528	0.009	0.162	0.4	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.1528	0.009	0.162	0.4	Pass	

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Test #	TCRX10092328	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	TCRX10092326	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/26/2025	Fuel	Gasoline
Fuel Batch ID	11406	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	4304	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1563192	--

Manufacturer Test Comments

Callout: 26EV-T01.6550-1; Cert 3-Day/Evap (E10) Hot_Soak_HC_(g) = 0.02823, Diurnal (g) = 0.11651; 3DayTotal = (0.02823+0.11651)*1.08 = 0.1563192 (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	0.1563	0.0057	0.162	0.4	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.1563	0.0057	0.162	0.4	Pass

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ						
Test #	TCRX10092292	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	TCRX10092296	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	08/16/2025	Fuel	Gasoline						
Fuel Batch ID	11406	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	3934	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value</td></tr><tr><td>HC (Hydrocarbon for Running Loss and ORVR)</td><td>0.00864</td><td>--</td></tr></table>			Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC (Hydrocarbon for Running Loss and ORVR)	0.00864	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC (Hydrocarbon for Running Loss and ORVR)	0.00864	--							
Manufacturer Test Comments	Callout: 26EV-T01.6550-1; Cert ORVR(E10) ORVR = 0.008 *1.08 = 0.00864 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	0.009	0	0.01	0.2	Pass	
CA	150,000 miles	Other	HC	0.009	0	0.01	0.2	Pass	

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ						
Test #	TCRX10092327	Test Procedure	32 - Federal Fuel Running Loss						
Exhaust Test # for this Evap Test	TCRX10092326	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	09/26/2025	Fuel	Gasoline						
Fuel Batch ID	11406	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	4287	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									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0005227</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0005227	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0005227	--							
Manufacturer Test Comments									
Callout: 26EV-T01.6550-1; Cert Evap RL test(E10) RL=(0.000484* 1.08)=0.0005227									
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	0	0.05	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.001	0	0	0.05	Pass	

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Fuel Properties			
Fuel Batch ID	11425	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	07/09/2025
Fuel Batch Calibration Effective Date	07/09/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.827	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	0
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.741
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.445	Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	48154	Fuel Calibration Number	1
Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline	Fuel Batch Calibration Date	07/23/2025
Fuel Batch Calibration Effective Date	07/23/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17888
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.491	Fuel Carbon Mass Fraction (E10)	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	11438	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	08/24/2025
Fuel Batch Calibration Effective Date	08/24/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.866	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18465
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	11439	Fuel Calibration Number	1
Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline	Fuel Batch Calibration Date	08/24/2025
Fuel Batch Calibration Effective Date	08/24/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.828	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family	VCRXR0108FEJ
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
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)	41.475	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	11406	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	04/23/2025
Fuel Batch Calibration Effective Date	04/23/2025	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	0.749
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.375	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	VCRXT01.6551	Evaporative/Refueling Family					VCRXR0108FEJ		
Consolidated List of Standards									
Exhaust Standards									
Cert Region	Federal	Cert/In-Use Code					Cert		
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	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
Cert Region	California + CAA Section 177 states	Cert/In-Use Code					Cert		
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	Standard Level					Other		
Fuel	Gasoline	Test Procedure					California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	1.0
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

Certification Summary Information Report

Test Group	VCRXT01.6551				Evaporative/Refueling Family			VCRXR0108FEJ	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				Standard Level			Other	
Fuel	Gasoline				Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				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	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				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

Certification Summary Information Report

Test Group		VCRXT01.6551			Evaporative/Refueling Family			VCRXR0108FEJ	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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

Certification Summary Information Report

Test Group		VCRXT01.6551			Evaporative/Refueling Family			VCRXR0108FEJ	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	1	0	12.5
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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	0.3
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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		VCRXT01.6551		Evaporative/Refueling Family		VCRXR0108FEJ	
Evaporative/Refueling Standards							
Evaporative/Refueling Family		VCRXR0108FEJ		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	--	0.400	0.0057		
Evaporative/Refueling Family		VCRXR0108FEJ		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	--	0.400	0.009		
Evaporative/Refueling Family		VCRXR0108FEJ		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		
Evaporative/Refueling Family		VCRXR0108FEJ		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		
Evaporative/Refueling Family		VCRXR0108FEJ		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	--	0.400	0.009		

Certification Summary Information Report

Test Group		VCRXT01.6551		Evaporative/Refueling Family		VCRXR0108FEJ	
Evaporative/Refueling Family		VCRXR0108FEJ		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	--	0.400	0.0057		
Evaporative/Refueling Family		VCRXR0108FEJ		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		
Evaporative/Refueling Family		VCRXR0108FEJ		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		

Certification Summary Information Report

Test Group		VCRXT01.6551	Evaporative/Refueling Family		VCRXR0108FEJ
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	

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Test Group		VCRXT01.6551	Evaporative/Refueling Family		VCRXR0108FEJ
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	

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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		

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Test Group		VCRXT01.6551	Evaporative/Refueling Family		VCRXR0108FEJ
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	