

Certification Summary Information Report

Manufacturer	FCA US LLC	Manufacturer Code	CRX
Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
Certificate Number	VCRXT05.7571-029	CARB Executive Order #	--
Certificate Issue Date	05/28/2026	Certificate Revision Date	--
Certificate Effective Date	05/28/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	06/02/2026 08:01:20 AM
Model Year	2027		

Test Group Information

CSI Type	Running Change	Running Change Reference Number	27RC-022
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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT4
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	LEV
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VCRXGPGNNF08	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	08/03/2026	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	VCRXT03.6570
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, if equipped 3) Purge flow monitor low in use monitor performance ration (IUMPR)		
Mfr Test Group Comments	T4iBIN70 E10 - City Litmus Value: 13.2; City Litmus Threshold: 12.5; Hwy Litmus Value: 19.4; Hwy Litmus Threshold: 18.8; E10 Fuel Batch Properties - Fuel Net Heat of Combustion and Fuel Carbon Mass fraction values will appear in E0 fields for Fuel Batch properties submissions prior to 6/13/25 Fuel Net Heat of Combustion units will be in BTU/LB This test group is being certified to Tier 4 Interim standards. FCA US LCC agrees to meet the Tier 4i BIN 70 standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT05.7571		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	04/08/2026 08:47:34 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	hdpe/co-ex				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	HC Adsorber				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	222	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	0				
Mfr Evaporative/Refueling Family Comments	--						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VCRXR0225RR1-LF1	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
FCA US LLC	12 - RAM	925 - 1500 4X4	California + CAA Section 177 states	4-Wheel Drive	Automatic	8	Yes
FCA US LLC	12 - RAM	920 - 1500 4X2	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	8	Yes
FCA US LLC	12 - RAM	920 - 1500 4X2	Federal	2-Wheel Drive, Rear	Automatic	8	Yes
FCA US LLC	12 - RAM	925 - 1500 4X4	Federal	4-Wheel Drive	Automatic	8	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20				
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N				

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Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
TWC			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			
Engine Configuration Number 1			
Engine Displacement (liters)	5.7	Engine Rated Horsepower	392
Number of Inlet Valves Per Cylinder	1	Number of Exhaust Valves Per Cylinder	1
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	Yes		
Cylinder Deactivation Description	Solenoids		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Cam phasers		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
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	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1								
Engine Configuration Number 2											
Engine Displacement (liters)	5.7	Engine Rated Horsepower	357								
Number of Inlet Valves Per Cylinder	1	Number of Exhaust Valves Per Cylinder	1								
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	Yes										
Cylinder Deactivation Description	Solenoids										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	Cam phasers										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4								
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No								
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	--										
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	NCRX10073219	NCRX10073220	NCRX10073221	NCRX10073222	NCRX10073216	14.5	228.2	20.7	286.1	1	
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline	NCRX10073219	NCRX10073220	NCRX10073221								

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Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
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Emission Data Vehicle Information

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

Vehicle Model

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

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

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

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

Dynamometer Coefficients:

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

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	Callout: 18EV-T05.75P2-1; Evaporative Vehicle								
Test #	JCRX10049387	Test Procedure	38 - CA fuel 3-day evap.						
Exhaust Test # for this Evap Test	JCRX10049355	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	06/13/2017	Fuel	Gasoline						
Fuel Batch ID	10465	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	CTC								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4253	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <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>0.48023</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)	0.48023	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.48023	--							
Manufacturer Test Comments	Callout: 18EV-T05.75P2-1; Cert 3-Day/Evap confirmatory; (cE10) Hot_Soak_HC_(g) = 0.08541, Diurnal (g) = 0.35925; Total =(0.44466 X 1.08) = 0.48023 (g)								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.4802	0.009	0.489	0.5	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.4802	0.009	0.489	0.5	Pass	

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
Test #	JCRX91003631	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	JCRX91003614	Test Fuel Type	46 - CARB LEV3 E10 Regular
Test Date	07/21/2017	Fuel	Gasoline
Fuel Batch ID	24670	Fuel Calibration Number	380
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4540.1	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

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

Manufacturer Test Comments

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

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.4176	0.0057	0.423	0.5	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.4176	0.0057	0.423	0.5	Pass

Test Group		VCRXT05.7571	Evaporative/Refueling Family		VCRXR0225RR1			
Test #		JCRX10049386		Test Procedure		37 - California Fuel Running Loss		
Exhaust Test # for this Evap Test		JCRX10049382		Test Fuel Type		46 - CARB LEV3 E10 Regular Gasoline		
Test Date		06/07/2017		Fuel		Gasoline		
Fuel Batch ID		10463		Fuel Calibration Number		1		
Vehicle Class		N/A		DF Type		Mfr. Determined		
Verify Test Lab ID		CTC						
E10 Evaporative Test Measurement Method		Actual Total Hydrocarbon Equivalent Measurement (with speciation)						
Test Start Odometer Reading		4199		Odometer Units		M		
4WD Test Dyno		No		Diesel Adjustment Factor Usage		--		
State of Charge Delta		--						
Drive Cycle Speed Tolerance Criteria		Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		Road Speed Fan Usage		No		
Test Results								
Test Result Name			Unrounded Test Result			Verify Calculated FE Equivalent Value		
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)			0.00025			--		
Manufacturer Test Comments								
Callout: 18EV-T05.75P2-1; RL/Evap; (cE10)								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0	0	0	0.05	Pass

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1						
Test #	JCRX10049390	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	JCRX10049383	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	07/09/2017	Fuel	Gasoline						
Fuel Batch ID	10465	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	CTC								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	4404	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value</td></tr><tr><td>HC (Hydrocarbon for Running Loss and ORVR)</td><td>0.036</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC (Hydrocarbon for Running Loss and ORVR)	0.036	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC (Hydrocarbon for Running Loss and ORVR)	0.036	--							
Manufacturer Test Comments Callout: 18EV-T05.75P2-1; ORVR; (cE10)									
Certification									
Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.036	0	0.04	0.2	Pass	
CA	150,000 miles	Other	HC	0.036	0	0.04	0.2	Pass	

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1						
Test #	JCRX10074521	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	02/28/2017	Fuel	Gasoline						
Fuel Batch ID	--	Fuel Calibration Number	--						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Sterling Performance								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	0	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <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>0.008</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)	0.008	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.008	--							
Manufacturer Test Comments									
Test run on a rig with aged components (not actual vehicle)									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.008	0	0.008	0.02	Pass	
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.008	0	0.008	0.02	Pass	

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1						
Emission Data Vehicle Information									
Vehicle ID / Configuration	V9DS69205 / 2	Manufacturer Vehicle Configuration Number	2						
Original Test Group Name	NCRXT05.75P0	Original Evaporative/Refueling Family	NCRXR0225RP1						
Original Test Vehicle Model Year	2022								
Vehicle Model									
Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	1500 Classic 4X4						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AA-J75	Rated Horsepower	395						
Displacement (liters)	5.7								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5445	Equivalent Test Weight (pounds)	6000						
GVWR (lbs)	6900	N/V Ratio	28.9						
Axle Ratio	3.92								
Transmission Type	Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VCRXT05.7571			Evaporative/Refueling Family		VCRXR0225RR1	
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	83	-0.1404	0.04131	36.16	0.2292	0.03447	23.9	
Cold CO	91.3	-0.1544	0.04544	42.78	-0.0597	0.04002	N/A	
US06	83	-0.1404	0.04131	36.16	0.2292	0.03447	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		callout: 22RC-526-2						

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Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
Test #	NCRX10073219	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	01/06/2022	Fuel	Gasoline
Fuel Batch ID	11035	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5611	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	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	597.7	--
FE BAG 1 (Bag 1 Fuel Economy)	14.47	14.47
CO2 BAG 2 (Bag 2 Carbon Dioxide)	591.02	--
FE BAG 2 (Bag 2 Fuel Economy)	14.71	14.71
CO2 BAG 3 (Bag 3 Carbon Dioxide)	514.55	--
FE BAG 3 (Bag 3 Fuel Economy)	16.86	16.86
METHANE (CH4 - Methane)	0.003033	--
CO (Carbon Monoxide)	0.544647	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.2167	--
DT-EER (Drive Trace Energy Economy Rating)	0.825	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.0096	--
MFR FE (Manufacturer Fuel Economy)	15.2	15.2
NOX (Nitrogen Oxide)	0.02339	--
N2O (Nitrous Oxide)	0.002734	--
HC-NM (Non-methane Hydrocarbon)	0.010069	--
NMOG (Non-methane organic gases)	0.011061	--
PM (Particulate Matter)	0.000806	--
HC-TOTAL (Total Hydrocarbon)	0.012758	--

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Test Group		VCRXT05.7571			Evaporative/Refueling Family				VCRXR0225RR1			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		572		999						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		571.38802		--						
Manufacturer Test Comments		22RC-526-2 city confirmatory 4k Auto WLTP cE10										
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 70	CO	0.54	--	--	--	0.12	1	0.7	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.84	--	--	--	0.12	1	0.8	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	METHANE	0.003	--	--	--	0.0094	1	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	N2O	0.0027	--	--	--	0.0009	1	0.004	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0111	--	--	--	0.0027	1	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0345	--	--	--	--	--	0.042	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0314	--	--	--	0.008	1	0.031	0.060	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0234	--	--	--	0.0053	1	0.029	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0008	--	--	--	0	1	0.001	0.003	Pass
CA	150,000 miles	Other	CO	0.54	--	--	--	0.12	1	0.7	1.7	Pass
CA	150,000 miles	Other	CO-COMP	0.84	--	--	--	0.12	1	0.8	4.2	Pass
CA	150,000 miles	Other	METHANE	0.003	--	--	--	0.0094	1	0.012	0.030	Pass
CA	150,000 miles	Other	N2O	0.0027	--	--	--	0.0009	1	0.004	0.010	Pass
CA	150,000 miles	Other	NMOG	0.0111	--	--	--	0.0027	1	0.014	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0345	--	--	--	--	--	0.042	0.070	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0314	--	--	--	0.008	1	0.031	0.060	Pass
CA	150,000 miles	Other	NOX	0.0234	--	--	--	0.0053	1	0.029	999.999	Pass
CA	150,000 miles	Other	PM	0.0008	--	--	--	0	1	0.001	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	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
Test #	NCRX10073222	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	01/12/2022	Fuel	Gasoline
Fuel Batch ID	10987	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5683	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	708.27	--
FE BAG 1 (Bag 1 Fuel Economy)	11.7	11.7
CO2 BAG 2 (Bag 2 Carbon Dioxide)	618.12	--
FE BAG 2 (Bag 2 Fuel Economy)	13.79	13.79
CO2 BAG 3 (Bag 3 Carbon Dioxide)	533.92	--
FE BAG 3 (Bag 3 Fuel Economy)	15.94	15.94
METHANE (CH4 - Methane)	0.019239	--
CO (Carbon Monoxide)	2.30863	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.681	--
DT-EER (Drive Trace Energy Economy Rating)	0.1408	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.71	--
MFR FE (Manufacturer Fuel Economy)	13.8	13.8
NOX (Nitrogen Oxide)	0.025915	--
HC-NM (Non-methane Hydrocarbon)	0.289887	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	619	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	613.68263	--

Manufacturer Test Comments

22RC-526-2 city 4k Auto Fixed CCO

Certification Summary Information Report

Test Group		VCRXT05.7571				Evaporative/Refueling Family				VCRXR0225RR1		
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 70	CO	2.31	--	--	--	0.04	1	2.4	12.5	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	HC-NM	0.29	--	--	--	0.0025	1	0.3	0.4	Pass
CA	50,000 miles	Other	CO	2.31	--	--	--	0.04	1	2.4	12.5	Pass

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1																																	
Test #	NCRX10073216	Test Procedure	3 - HWFE																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																	
Test Date	01/04/2022	Fuel	Gasoline																																	
Fuel Batch ID	11035	Fuel Calibration Number	1																																	
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	CPG																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	5552	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	Yes																																	
Test Results																																				
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Manufacturer Test Comments	22RC-526-2 hwy 4k Auto WLTP cE10																																			

Certification Summary Information Report

Test Group		VCRXT05.7571			Evaporative/Refueling Family					VCRXR0225RR1		
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 70	CREE	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.003	--	--	--	0.0027	1	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0095	--	--	--	--	--	0.018	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0065	--	--	--	0.0053	1	0.012	999.999	Pass
CA	150,000 miles	Other	NMOG	0.003	--	--	--	0.0027	1	0.006	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0095	--	--	--	--	--	0.018	0.070	Pass
CA	150,000 miles	Other	NOX	0.0065	--	--	--	0.0053	1	0.012	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	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1																																																
Test #	NCRX10073220	Test Procedure	90 - US06																																																
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																																
Test Date	01/06/2022	Fuel	Gasoline																																																
Fuel Batch ID	11035	Fuel Calibration Number	1																																																
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																																
Verify Test Lab ID	CPG																																																		
E10 Evaporative Test Measurement Method	--																																																		
Test Start Odometer Reading	5622	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	Yes																																																
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Certification Summary Information Report

Test Group		VCRXT05.7571				Evaporative/Refueling Family				VCRXR0225RR1		
Manufacturer Test Comments		22RC-526-2 us06 confirmatory 4k Auto WLTP cE10										
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 70	CO	0.99	--	--	--	0.12	1	1.1	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.003	--	--	--	0.0027	1	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0102	--	--	--	0.0053	1	0.016	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0022	--	--	--	0	1	0.002	0.006	Pass
CA	150,000 miles	Other	CO	0.99	--	--	--	0.12	1	1.1	999.9	Pass
CA	150,000 miles	Other	NMOG	0.003	--	--	--	0.0027	1	0.006	999.999	Pass
CA	150,000 miles	Other	NOX	0.0102	--	--	--	0.0053	1	0.016	999.999	Pass
CA	150,000 miles	Other	PM	0.0022	--	--	--	0	1	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1																																	
Test #	NCRX10073221	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																	
Test Date	01/06/2022	Fuel	Gasoline																																	
Fuel Batch ID	11035	Fuel Calibration Number	1																																	
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	CPG																																			
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Test Start Odometer Reading	5638	Odometer Units	M																																	
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Manufacturer Test Comments	22RC-526-2 sc03 confirmatory 4k Auto WLTP cE10																																			

Certification Summary Information Report

Test Group		VCRXT05.7571				Evaporative/Refueling Family				VCRXR0225RR1		
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 70	CO	0.68	--	--	--	0.12	1	0.8	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0	--	--	--	0.0027	1	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0206	--	--	--	0.0053	1	0.026	999.999	Pass
CA	150,000 miles	Other	CO	0.68	--	--	--	0.12	1	0.8	999.9	Pass
CA	150,000 miles	Other	NMOG	0	--	--	--	0.0027	1	0.003	999.999	Pass
CA	150,000 miles	Other	NOX	0.0206	--	--	--	0.0053	1	0.026	999.999	Pass

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
Fuel Properties			
Fuel Batch ID	10465	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/13/2017
Fuel Batch Calibration Effective Date	06/13/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.824	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17987
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--
Fuel Batch ID	11035	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	10/27/2021
Fuel Batch Calibration Effective Date	10/27/2021	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	0.753
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17962
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	10463	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	05/30/2017
Fuel Batch Calibration Effective Date	05/30/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.813	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17820
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.813	Weight Fraction CO2	--
Fuel Batch ID	10987	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	06/18/2021
Fuel Batch Calibration Effective Date	06/18/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	0.827	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	0

Certification Summary Information Report

Test Group	VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.3	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17922
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	24670	Fuel Calibration Number	380
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	12/04/2015
Fuel Batch Calibration Effective Date	12/04/2015	Fuel Batch Calibration Ineffective Date	12/04/2030
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17963
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VCRXT05.7571			Evaporative/Refueling Family		VCRXR0225RR1		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Other		
Fuel		Gasoline			Test Procedure		US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0.12	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Other		
Fuel		Gasoline			Test Procedure		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
4,000 miles	CO	--	--	--	0	0	1	0.12	1.7
150,000 miles	METHANE	--	--	--	--	--	1	0.0094	0.030
150,000 miles	N2O	--	--	--	--	--	1	0.0009	0.010

Certification Summary Information Report

Test Group		VCRXT05.7571			Evaporative/Refueling Family			VCRXR0225RR1	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			California fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0.12	1.7
150,000 miles	CO-COMP	--	--	--	--	--	1	0.12	4.2
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0.0094	0.030
150,000 miles	N2O	--	--	--	--	--	1	0.0009	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0.008	0.070
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0.008	0.060
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			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	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0.008	0.070
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999

Certification Summary Information Report

Test Group		VCRXT05.7571			Evaporative/Refueling Family			VCRXR0225RR1	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
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	0.12	1.7
150,000 miles	CO-COMP	--	--	--	--	--	1	0.12	4.2
150,000 miles	CREE	--	--	--	--	--	1	0	999
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0.0094	0.030
150,000 miles	N2O	--	--	--	--	--	1	0.0009	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0.008	0.070
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0.008	0.060
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
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	0.12	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999

Certification Summary Information Report

Test Group	VCRXT05.7571				Evaporative/Refueling Family			VCRXR0225RR1	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)				Standard Level			Other	
Fuel	Gasoline				Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0.12	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)				Standard Level			Federal Tier 3 Bin 70	
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	0.0094	0.030
150,000 miles	N2O	--	--	--	--	--	1	0.0009	0.010

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)				Standard Level			Federal Tier 3 Bin 70	
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	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0.008	0.070
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999

Certification Summary Information Report

Test Group		VCRXT05.7571			Evaporative/Refueling Family			VCRXR0225RR1	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
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	0.12	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	1	0.0053	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Other	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	1	0.04	12.5

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
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	0.04	12.5
150,000 miles	HC-NM	--	--	--	--	--	1	0.0025	0.4

Evaporative/Refueling Standards

Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0		

Certification Summary Information Report

Test Group		VCRXT05.7571		Evaporative/Refueling Family		VCRXR0225RR1	
Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.009		
Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.009		
Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0057		
Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		Other	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0		

Certification Summary Information Report

Test Group		VCRXT05.7571		Evaporative/Refueling Family		VCRXR0225RR1	
Evaporative/Refueling Family		VCRXR0225RR1		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		
Evaporative/Refueling Family		VCRXR0225RR1		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0057		
Evaporative/Refueling Family		VCRXR0225RR1		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		

Certification Summary Information Report

Test Group		VCRXT05.7571	Evaporative/Refueling Family	VCRXR0225RR1
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		VCRXT05.7571	Evaporative/Refueling Family		VCRXR0225RR1
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		VCRXT05.7571	Evaporative/Refueling Family		VCRXR0225RR1
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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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	