



### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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**Evaporative/Refueling Family Information**

<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	12/09/2025 06:34:15 PM
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline
<b>Multiple Fuel Storage</b>	--		
<b>Bladder Fuel Tank?</b>	No		
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	HDPE
<b>Fill Pipe Seal Type</b>	Liquid seal		
<b>Air Intake System Vapor Storage Device?</b>	Yes	<b>Air Intake System Vapor Storage Device Description</b>	HC-TRAP
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	125	<b>Number of Primary Canisters</b>	1
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	--
<b>Mfr Evaporative/Refueling Family Comments</b>	--		

**Leak Family Details**

<b>Leak Family Indicator</b>	Yes		
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State
<b>Evaporative Canister Bleed Test Comments</b>	--		
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--
<b>CARB Fuel Only (Rig) Test Comments</b>	--		

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VKMXR0125NEG-SP2	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
Kia Corporation	1 - KIA	800 - Seltos AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	1	Yes
Kia Corporation	1 - KIA	800 - Seltos AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	1	Yes
Kia Corporation	1 - KIA	801 - Seltos FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	1	Yes
Kia Corporation	1 - KIA	801 - Seltos FWD	Federal	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	1	Yes

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Engine Description</b>			
<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--
<b>Engine Block Arrangement</b>	Inline	<b>Mfr Engine Block Arrangement Description</b>	--
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	SAE 0W-20
<b>Number of Cylinders/Rotors</b>	4	<b>Mechanically Variable Compression Ratio Indicator</b>	N
<b>After Treatment Device(s) (ATD)</b>			
<b>ATD Number</b>	<b>ATD Type</b>	<b>ATD Precious Metal</b>	<b>Substrate Material</b>
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
<b>Mfr After Treatment Device (ATD) Comments</b>	--		
<b>Direct Ozone Reduction (DOR) Device</b>	Not Equipped		
<b>Mfr Emission Control Device Comments</b>	--		
<b>Engine Configuration Number 1</b>			
<b>Engine Displacement (liters)</b>	2.0	<b>Engine Rated Horsepower</b>	147
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Number of Air Aspiration Devices</b>	--
<b>Air Aspiration Device Configuration</b>	--	<b>Charge Air Cooler Type</b>	--
<b>Air Aspiration Drive Method(s)</b>	Mechanical		
<b>Cylinder Deactivation</b>	No		
<b>Cylinder Deactivation Description</b>	--		
<b>Variable Valve Timing</b>	Yes		
<b>Variable Valve Timing System Description</b>	Fixed3(More than two or continuous)		
<b>Variable Valve Lift?</b>	No		
<b>Variable Valve Lift System Description</b>	--		
<b>Number of Knock Sensors</b>	1	<b>Number of Air/Fuel Sensors</b>	2
<b>Air/Fuel Sensor # 1 Type</b>	Other	<b>Air/Fuel Sensor # 1 Description</b>	WR-HO2S
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--
<b>Mfr Air/Fuel Sensor Comments</b>	--		
<b>Exhaust Gas Recirculation</b>	Yes	<b>Cooled Exhaust Gas Recirculation</b>	Yes
<b>EGR Type</b>	Electronic/Electric	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--
<b>Closed Loop Air Injection System</b>	No		
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--
<b>Mfr Engine Configuration Comments</b>	--		

### Certification Summary Information Report

<b>Test Group</b>		VKMXV02.0NE3				<b>Evaporative/Refueling Family</b>			VKMXR0125NEG		
<b>Official Test Numbers</b>											
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>	<b>Cold CO</b>	<b>Highway</b>	<b>EPA City Litmus Value</b>	<b>EPA City Litmus Threshold</b>	<b>EPA Highway Litmus Value</b>	<b>EPA Highway Litmus Threshold</b>	<b>CREE Weighting Factor</b>	
Gasoline	VKMX10093088	VKMX10092411	VKMX10093090	VKMX10092416	VKMX10093089	24.9	23.9	29.6	30.6	--	
<b>SFTP LEV-III Official Test Numbers</b>											
<b>Test Group Fuel</b>	<b>FTP</b>		<b>US06</b>			<b>SC03</b>					
Gasoline	VKMX10093088		VKMX10092411			VKMX10093090					

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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**Emission Data Vehicle Information**

Vehicle ID / Configuration	CL4U6N0MC614F / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TKMXV02.0CE3	Original Evaporative/Refueling Family	TKMXR0130CEG
Original Test Vehicle Model Year	2026		

**Vehicle Model**

Represented Test Vehicle Make	KIA	Represented Test Vehicle Model	K4
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**Leak Family Details**

Leak Family Identifier	CL4	Leak Family Name	TKMXR0130CEG-CL4
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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	0.9973
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	G4NS-CV	Rated Horsepower	147
Displacement (liters)	2	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Naturally Aspirated	Air Aspiration Device Configuration	--
Number of Air Aspiration Devices	--	Drive Mode While Testing	2-Wheel Drive, Front
Charge Air Cooler Type	--	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	3500
Curb Weight (lbs)	3228	N/V Ratio	27
GVWR (lbs)	4145		
Axle Ratio	5.15		
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	1
Transmission Lockup	Yes	Creep Gear	No

**Dynamometer Coefficients:**

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	34.378	-0.2056	0.023979	15.378	-0.13443	0.022119	11.2

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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**Emission Control Device Comments** --  
**Manufacturer Test Vehicle Comments** 26MY CL4 2.0 5DR 18in (EVAP EDV, ETW 3500)

<b>Test #</b>	<b>TKMX10091119</b>	<b>Test Procedure</b>	<b>27 - California fuel 2-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	TKMX10091117	<b>Test Fuel Type</b>	51 - CARB LEV4 E10 Regular Gasoline
<b>Test Date</b>	03/11/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	24E-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	4135	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.2331	--

**Manufacturer Test Comments** 26MY CL4 2.0 5DR 18in 2DBL

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	0.2331	0	0.233	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2331	0	0.233	0.3	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>TKMX10091124</b>	<b>Test Procedure</b>	<b>38 - CA fuel 3-day evap.</b>
<b>Exhaust Test # for this Evap Test</b>	TKMX10091128	<b>Test Fuel Type</b>	51 - CARB LEV4 E10 Regular Gasoline
<b>Test Date</b>	05/15/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	24E-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	4326	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.2554	--

**Manufacturer Test Comments**                      26MY CL4 2.0 5DR 18in 3DBL Associated Exhaust Test NO. is corrected.

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	0.2554	0	0.255	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2554	0	0.255	0.3	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>TKMX10091120</b>	<b>Test Procedure</b>	<b>24 - Federal fuel refueling test (ORVR)</b>
<b>Exhaust Test # for this Evap Test</b>	TKMX10091118	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/26/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25T-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	4153	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.0016	--

**Manufacturer Test Comments**                      26MY CL4 2.0 5DR 18in ORVR

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	0.002	0.002	0	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.002	0.002	0	0.2	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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<b>Test #</b>	<b>TKMX10091129</b>	<b>Test Procedure</b>	<b>37 - California Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	TKMX10091128	<b>Test Fuel Type</b>	51 - CARB LEV4 E10 Regular Gasoline
<b>Test Date</b>	05/15/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	24E-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	4309	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.0002	--

**Manufacturer Test Comments**                      26MY CL4 2.0 5DR 18in RL

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	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.01	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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<b>Test #</b>	TKMX10091121	<b>Test Procedure</b>	65 - Evap Canister Bleed Test
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	51 - CARB LEV4 E10 Regular Gasoline
<b>Test Date</b>	03/19/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	24E-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	4153	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.0024	--

**Manufacturer Test Comments**                      26MY CL4 2.0 5DR 18in Bleed

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	0.0024	0	0.002	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0024	0	0.002	0.02	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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<b>Test #</b>	<b>TKMX10091122</b>	<b>Test Procedure</b>	<b>67 - Leak Test - Port Near Canister</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/07/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25T-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4089	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
LEAK-DIA (Effective Leak Diameter (inches))	0	--

**Manufacturer Test Comments**                      26MY CL4 2.0 5DR 18in Leak Test Port Near Canister

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	LEAK-DIA	0	0	0	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	LEAK-DIA	0	0	0	0.02	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>TKMX10091123</b>	<b>Test Procedure</b>	<b>68 - Leak Test - Port Near Fuel Pipe</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/07/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25T-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4089	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
LEAK-DIA (Effective Leak Diameter (inches))	0	--

**Manufacturer Test Comments**                      26MY CL4 2.0 5DR 18in Leak Test Port Near Fuel pipe

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	LEAK-DIA	0	0	0	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	LEAK-DIA	0	0	0	0.02	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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**Emission Data Vehicle Information**

Vehicle ID / Configuration	SP3-U7N0MC168A / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VKMXV02.0NE3	Original Evaporative/Refueling Family	VKMXR0125NEG
Original Test Vehicle Model Year	2027		

**Vehicle Model**

Represented Test Vehicle Make	KIA	Represented Test Vehicle Model	Seltos
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**Leak Family Details**

Leak Family Identifier	SP3	Leak Family Name	VKMXR0125NEG-SP3
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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	1.007
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	G4NS-CV	Rated Horsepower	147
Displacement (liters)	2		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3428	Equivalent Test Weight (pounds)	3750
GVWR (lbs)	4542	N/V Ratio	31.7
Axle Ratio	6.48		
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	1
Transmission Lockup	Yes	Creep Gear	No

## Certification Summary Information Report

Test Group	VKMXV02.0NE3			Evaporative/Refueling Family			VKMXR0125NEG
<b>Dynamometer Coefficients:</b>							
	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	34.729	0.00188	0.025896	9.957	0.13413	0.023165	13.3
Cold CO	38.202	0.00207	0.028486	6.32	0.12639	0.025619	N/A
US06	34.729	0.00188	0.025896	9.957	0.13413	0.023165	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	27MY SP3 2.0 AWD CVT 18inch						

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10092349</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	09/12/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25M-02	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4255	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	279.5371	--
FE BAG 1 (Bag 1 Fuel Economy)	31.5028	31.5028
CO2 BAG 2 (Bag 2 Carbon Dioxide)	270.11	--
FE BAG 2 (Bag 2 Fuel Economy)	32.7848	32.7848
CO2 BAG 3 (Bag 3 Carbon Dioxide)	247.401	--
FE BAG 3 (Bag 3 Fuel Economy)	35.8144	35.8144
METHANE (CH4 - Methane)	0.0006	--
CO (Carbon Monoxide)	0.2862	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.79	--
DT-EER (Drive Trace Energy Economy Rating)	-0.51	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.05	--
MFR FE (Manufacturer Fuel Economy)	33.246	33.246
NOX (Nitrogen Oxide)	0.0032	--
N2O (Nitrous Oxide)	0.0001	--
HC-NM (Non-methane Hydrocarbon)	0.0043	--
NMOG (Non-methane organic gases)	0.0045	--
HC-TOTAL (Total Hydrocarbon)	0.0049	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	266.4714	266

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
Carbon dioxide	265.8297	--

**Manufacturer Test Comments**                      27MY SP3 2.0 AWD 18in ETW 3750 (FEDV) E0-FTP

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	120,000 miles	Federal Tier 3 Bin 30	CREE	266	--	--	--	0.059262	--	266	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0006	--	--	--	0.0004	--	0.001	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0001	--	--	--	0.0002	--	0	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.29	--	--	--	0.1	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0045	--	1.1	--	0.0028	--	0.007	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0077	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0032	--	--	--	0.0019	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.29	--	--	--	0.1	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0045	--	1.1	--	0.0028	--	0.007	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0077	--	--	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0032	--	--	--	0.0019	--	0.005	99.999	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10092414</b>	<b>Test Procedure</b>	<b>52 - Fed. fuel 50 F exh.</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/06/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25T-03	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4149	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.002	--
CO (Carbon Monoxide)	0.3617	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.47	--
DT-EER (Drive Trace Energy Economy Rating)	0.45	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.61	--
MFR FE (Manufacturer Fuel Economy)	31.2875	31.2875
NOX (Nitrogen Oxide)	0.0021	--
HC-NM (Non-methane Hydrocarbon)	0.0126	--
NMOG (Non-methane organic gases)	0.014	--
HC-TOTAL (Total Hydrocarbon)	0.0134	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	277.0861	--

## Manufacturer Test Comments

27MY SP3 2.0 18in ETW 3750 (EDV) E10-50F

## Certification Summary Information Report

Test Group		VKMXV02.0NE3				Evaporative/Refueling Family				VKMXR0125NEG		
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
CA	4,000 miles	California LEV-IV SULEV30	CO	0.36	--	--	--	--	--	0.4	1.0	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG	0.014	--	1.1	--	--	--	0.014	99.999	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0161	--	--	--	--	--	0.016	0.060	Pass
CA	4,000 miles	California LEV-IV SULEV30	NOX	0.0021	--	--	--	--	--	0.002	99.999	Pass

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10092415</b>	<b>Test Procedure</b>	<b>49 - Quick-Driveway (QD)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/21/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25T-03	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4397	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>METHANE (CH4 - Methane)</b>	0.0005	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	0.18	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	-0.37	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	0.34	--
<b>NOX (Nitrogen Oxide)</b>	0.0036	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.0043	--
<b>NMOG (Non-methane organic gases)</b>	0.0047	--

**Manufacturer Test Comments**                      27MY SP3 2.0 18in ETW 3750 (EDV) E10-QD

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
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0047	--	1.1	--	0.0068	--	0.012	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0083	--	--	--	--	--	0.016	0.042	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0036	--	--	--	0.0005	--	0.004	99.999	Pass

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10092416</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)
<b>Test Date</b>	09/10/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25D-02	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4216	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>Test Results</b>			

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	340.4525	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.6362	--	
FE BAG 1 (Bag 1 Fuel Economy)	25.1083	25.1083	
CH4 BAG 1 (Bag 1 Methane)	0.0263	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.326	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	299.2411	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.232	--	
FE BAG 2 (Bag 2 Fuel Economy)	28.8147	28.8147	
CH4 BAG 2 (Bag 2 Methane)	0.0001	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	270.146	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.2278	--	
FE BAG 3 (Bag 3 Fuel Economy)	31.9055	31.9055	
CH4 BAG 3 (Bag 3 Methane)	0.0012	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
METHANE (CH4 - Methane)	0.0058	--	
CO (Carbon Monoxide)	0.522	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.26	--	
DT-EER (Drive Trace Energy Economy Rating)	0.36	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.01	--	
MFR FE (Manufacturer Fuel Economy)	28.6559	28.6559	
NOX (Nitrogen Oxide)	0.0082	--	
HC-NM (Non-methane Hydrocarbon)	0.0614	--	
NMOG (Non-methane organic gases)	0.067	--	
HC-TOTAL (Total Hydrocarbon)	0.0669	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	299.7876	--	

Manufacturer Test Comments

27MY SP3 2.0 AWD 18in ETW 3750 (EDV) E10-20F

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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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	0.52	--	--	--	0.03	--	0.6	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.06	--	--	--	0.0001	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV SULEV30	CO	0.52	--	--	--	0.03	--	0.6	10.0	Pass

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10093088</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	01/22/2026	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	26Q-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	6800 Geddes Road		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4697	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>Test Results</b>			

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE Equivalent Value (miles per gallon)</b>
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	286.8095	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.2623	--
	FE BAG 1 (Bag 1 Fuel Economy)	30.4135	30.4135
	CH4 BAG 1 (Bag 1 Methane)	0.0018	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.01	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	279.3682	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.1567	--
	FE BAG 2 (Bag 2 Fuel Economy)	31.3055	31.3055
	CH4 BAG 2 (Bag 2 Methane)	0.0004	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	251.6506	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.2551	--
	FE BAG 3 (Bag 3 Fuel Economy)	34.6343	34.6343
	CH4 BAG 3 (Bag 3 Methane)	0.0008	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--
	METHANE (CH4 - Methane)	0.0008	--
	CO (Carbon Monoxide)	0.2055	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.09	--
	DT-EER (Drive Trace Energy Economy Rating)	-0.1	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.17	--
	MFR FE (Manufacturer Fuel Economy)	31.983	31.983
	NOX (Nitrogen Oxide)	0.0033	--
	HC-NM (Non-methane Hydrocarbon)	0.0019	--
	NMOG (Non-methane organic gases)	0.0021	--
	PM (Particulate Matter)	0.00013	--
	HC-TOTAL (Total Hydrocarbon)	0.0025	--
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>
	Carbon-Related Exhaust Emissions	273.336	273
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
	Carbon dioxide	273.3082	--
<b>Manufacturer Test Comments</b>	26MY SP3 2.0 AWD 18in ETW 3750 (EDV) E10-FTP MCT		

## Certification Summary Information Report

Test Group		VKMXV02.0NE3			Evaporative/Refueling Family					VKMXR0125NEG		
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	120,000 miles	Federal Tier 3 Bin 30	CREE	273	--	--	--	0.059262	--	273	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0008	--	--	--	0.0004	--	0.001	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.21	--	--	--	0.1	--	0.3	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	1.65	--	--	--	0	--	1.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0021	--	1.1	--	0.0028	--	0.005	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0054	--	--	--	--	--	0.01	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0119	--	--	--	0	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0033	--	--	--	0.0019	--	0.005	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0001	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.21	--	--	--	0.1	--	0.3	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0021	--	1.1	--	0.0028	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0054	--	--	--	--	--	0.01	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0033	--	--	--	0.0019	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0001	--	--	--	0	--	0	0.001	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10092350</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	09/12/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25M-02	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4266	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0.2007	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.27	--
DT-EER (Drive Trace Energy Economy Rating)	-0.15	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.71	--
MFR FE (Manufacturer Fuel Economy)	46.3043	46.3043
NOX (Nitrogen Oxide)	0.0013	--
HC-NM (Non-methane Hydrocarbon)	0.0021	--
NMOG (Non-methane organic gases)	0.0022	--
HC-TOTAL (Total Hydrocarbon)	0.0027	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	191.3237	191

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	191.2126	--

## Manufacturer Test Comments

27MY SP3 2.0 AWD 18in ETW 3750 (FEDV) E0-HWY

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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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	120,000 miles	Federal Tier 3 Bin 30	CREE	191	--	--	--	0.059262	--	191	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0022	--	1.03	--	0.0028	--	0.005	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0035	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0013	--	--	--	0.0019	--	0.003	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0022	--	1.03	--	0.0028	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0035	--	--	--	--	--	0.008	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0013	--	--	--	0.0019	--	0.003	99.999	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10093089</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	01/22/2026	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	26Q-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	6800 Geddes Road		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4708	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0002	--
CO (Carbon Monoxide)	0.1283	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.31	--
DT-EER (Drive Trace Energy Economy Rating)	-0.44	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.2	--
MFR FE (Manufacturer Fuel Economy)	46.2046	46.2046
NOX (Nitrogen Oxide)	0.0011	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	189.2042	189

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	188.6582	--

## Manufacturer Test Comments

27MY SP3 2.0 AWD 18in ETW 3750 (EDV) E10-HWY MCT

## Certification Summary Information Report

Test Group		VKMXV02.0NE3				Evaporative/Refueling Family				VKMXR0125NEG		
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	120,000 miles	Federal Tier 3 Bin 30	CREE	189	--	--	--	0.059262	--	189	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0.0028	--	0.003	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0011	--	--	--	--	--	0.006	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0011	--	--	--	0.0019	--	0.003	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0	--	1.03	--	0.0028	--	0.003	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0011	--	--	--	--	--	0.006	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0011	--	--	--	0.0019	--	0.003	99.999	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10092351</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	09/12/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25M-02	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4287	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	500.0551	--
FE BAG 1 (Bag 1 Fuel Economy)	17.0719	17.0719
CO2 BAG 2 (Bag 2 Carbon Dioxide)	272.9746	--
FE BAG 2 (Bag 2 Fuel Economy)	31.7027	31.7027
METHANE (CH4 - Methane)	0.0008	--
CO (Carbon Monoxide)	5.8437	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.71	--
DT-EER (Drive Trace Energy Economy Rating)	-0.99	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.84	--
MFR FE (Manufacturer Fuel Economy)	26.6686	26.6686
NOX (Nitrogen Oxide)	0.0055	--
N2O (Nitrous Oxide)	0.0001	--
HC-NM (Non-methane Hydrocarbon)	0.0046	--
NMOG (Non-methane organic gases)	0.0047	--
HC-TOTAL (Total Hydrocarbon)	0.0053	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	323.237	--

## Manufacturer Test Comments

27MY SP3 2.0 AWD 18in ETW 3750 (FEDV) E0-US06

## Certification Summary Information Report

Test Group		VKMXV02.0NE3				Evaporative/Refueling Family				VKMXR0125NEG		
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	5.8437	--	--	--	0.1	--	5.944	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0047	--	1.03	--	0.0028	--	0.008	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0102	--	--	--	--	--	0.015	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0055	--	--	--	0.0019	--	0.007	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	5.84	--	--	--	0.1	--	5.9	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0047	--	1.03	--	0.0028	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0102	--	--	--	--	--	0.015	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0055	--	--	--	0.0019	--	0.007	99.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10092411</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/04/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25T-03	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	772-1, Jangduck-Dong		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4090	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	486.4151	--
CO BAG 1 (Bag 1 Carbon Monoxide)	9.3269	--
FE BAG 1 (Bag 1 Fuel Economy)	17.3476	17.3476
CH4 BAG 1 (Bag 1 Methane)	0.001	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0054	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	271.6548	--
CO BAG 2 (Bag 2 Carbon Monoxide)	3.3523	--
FE BAG 2 (Bag 2 Fuel Economy)	31.325	31.325
CH4 BAG 2 (Bag 2 Methane)	0.0005	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0029	--
METHANE (CH4 - Methane)	0.0006	--
CO (Carbon Monoxide)	4.6751	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.76	--
DT-EER (Drive Trace Energy Economy Rating)	-1.13	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.62	--
MFR FE (Manufacturer Fuel Economy)	26.613	26.613
NOX (Nitrogen Oxide)	0.0051	--
HC-NM (Non-methane Hydrocarbon)	0.0034	--
NMOG (Non-methane organic gases)	0.0035	--
PM (Particulate Matter)	0.0037	--
HC-TOTAL (Total Hydrocarbon)	0.004	--



## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
<b>Test #</b>	<b>VKMX10093090</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	01/27/2026	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	26Q-01	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	6800 Geddes Road		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4503	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0009	--
CO (Carbon Monoxide)	0.4374	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.25	--
DT-EER (Drive Trace Energy Economy Rating)	0.75	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.32	--
MFR FE (Manufacturer Fuel Economy)	24.6471	24.6471
NOX (Nitrogen Oxide)	0.0078	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0004	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	354.1484	--

## Manufacturer Test Comments

27MY SP3 2.0 AWD 18in ETW 3750 (EDV) E10-SC03 MCT

## Certification Summary Information Report

Test Group		VKMXV02.0NE3				Evaporative/Refueling Family				VKMXR0125NEG		
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	0.4374	--	--	--	0.1	--	0.537	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0.0028	--	0.003	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0078	--	--	--	--	--	0.012	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0078	--	--	--	0.0019	--	0.01	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.44	--	--	--	0.1	--	0.5	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0	--	1.03	--	0.0028	--	0.003	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0078	--	--	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0078	--	--	--	0.0019	--	0.01	99.999	Pass

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>24E-01</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	51 - CARB LEV4 E10 Regular Gasoline	<b>Fuel Batch Calibration Date</b>	08/23/2024
<b>Fuel Batch Calibration Effective Date</b>	08/27/2024	<b>Fuel Batch Calibration Ineffective Date</b>	08/27/2027
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.742
<b>Fuel Ethanol Volume Percent (%)</b>	9.4	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17903
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.826	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>25T-03</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	06/19/2025
<b>Fuel Batch Calibration Effective Date</b>	07/23/2025	<b>Fuel Batch Calibration Ineffective Date</b>	07/23/2028
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.743
<b>Fuel Ethanol Volume Percent (%)</b>	9.8	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	--
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	41.495	<b>Fuel Carbon Mass Fraction (E10)</b>	0.828
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	--	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>25M-02</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	06/19/2025
<b>Fuel Batch Calibration Effective Date</b>	07/23/2025	<b>Fuel Batch Calibration Ineffective Date</b>	07/23/2028
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.74
<b>Fuel Ethanol Volume Percent (%)</b>	--	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18484
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.864	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>26Q-01</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	01/03/2026
<b>Fuel Batch Calibration Effective Date</b>	11/06/2025	<b>Fuel Batch Calibration Ineffective Date</b>	01/03/2029
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.347	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
<b>Fuel Batch ID</b>	<b>25T-01</b>	<b>Fuel Calibration Number</b>	<b>1</b>
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/22/2024
Fuel Batch Calibration Effective Date	03/14/2025	Fuel Batch Calibration Ineffective Date	03/14/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17841
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	--
<b>Fuel Batch ID</b>	<b>25D-02</b>	<b>Fuel Calibration Number</b>	<b>1</b>
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	06/19/2025
Fuel Batch Calibration Effective Date	07/23/2025	Fuel Batch Calibration Ineffective Date	07/23/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.736
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)	41.538	Fuel Carbon Mass Fraction (E10)	0.826
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG
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#### Consolidated List of Standards

**Exhaust Standards**

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	Federal Tier 3 Bin 30
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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
120,000 miles	CREE	--	--	--	--	--	--	0.059262	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0004	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0002	0.010
150,000 miles	CO	--	--	--	--	--	--	0.1	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0028	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	California LEV-IV SULEV30
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	--	--	--	0.1	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0028	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

### Certification Summary Information Report

<b>Test Group</b>		VKMXV02.0NE3			<b>Evaporative/Refueling Family</b>			VKMXR0125NEG		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			CVS 75 and later (w/o can. load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
120,000 miles	CREE	--	--	--	--	--	--	0.059262	999	
120,000 miles	METHANE	--	--	--	--	--	--	0.0004	0.030	
120,000 miles	N2O	--	--	--	--	--	--	0.0002	0.010	
150,000 miles	CO	--	--	--	--	--	--	0.1	1.0	
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2	
150,000 miles	HC-NM+NOX-COMP	--	--	--	--	--	--	0	0.030	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.001	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Federal fuel 2-day exhaust (w/can load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.1	1.0	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.001	

### Certification Summary Information Report

<b>Test Group</b>		VKMXV02.0NE3			<b>Evaporative/Refueling Family</b>			VKMXR0125NEG		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.1	99.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	99.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.006	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Fed. fuel 50 F exh.		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
4,000 miles	CO	--	--	--	--	--	--	--	1.0	
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008	
4,000 miles	NMOG	--	--	1.1	--	--	--	--	99.999	
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.060	
4,000 miles	NOX	--	--	--	--	--	--	--	99.999	

### Certification Summary Information Report

<b>Test Group</b>		VKMXV02.0NE3			<b>Evaporative/Refueling Family</b>			VKMXR0125NEG		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.1	99.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	99.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.1	1.0	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			CVS 75 and later (w/o can. load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.1	1.0	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.001	

### Certification Summary Information Report

<b>Test Group</b>		VKMXV02.0NE3			<b>Evaporative/Refueling Family</b>			VKMXR0125NEG		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.03	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0001	0.3	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Quick-Driveway (QD)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0068	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.042	
150,000 miles	NOX	--	--	--	--	--	--	0.0005	99.999	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
120,000 miles	CREE	--	--	--	--	--	--	0.059262	999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0028	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0019	99.999	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.03	10.0	

## Certification Summary Information Report

Test Group	VKM XV02.0NE3	Evaporative/Refueling Family	VKM XR0125NEG		
<b>Evaporative/Refueling Standards</b>					
<b>Evaporative/Refueling Family</b>	VKM XR0125NEG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>			
<b>Test Procedure</b>	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
<b>Evaporative/Refueling Family</b>	VKM XR0125NEG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Leak Test - Port Near Fuel Pipe				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	LEAK-DIA	--	0.020	0
<b>Evaporative/Refueling Family</b>	VKM XR0125NEG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>			
<b>Test Procedure</b>	California Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.01	0
<b>Evaporative/Refueling Family</b>	VKM XR0125NEG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>			
<b>Test Procedure</b>	Leak Test - Port Near Fuel Pipe				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
<b>Evaporative/Refueling Family</b>	VKM XR0125NEG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>			
<b>Test Procedure</b>	Leak Test - Port Near Canister				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0

### Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3	<b>Evaporative/Refueling Family</b>	VKMXR0125NEG		
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.002
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>			
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>			
<b>Test Procedure</b>	California fuel 2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Leak Test - Port Near Canister				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-DIA	--	0.020	0
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	California Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

## Certification Summary Information Report

<b>Test Group</b>	VKMXV02.0NE3		<b>Evaporative/Refueling Family</b>	VKMXR0125NEG	
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG		<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.002
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	CA fuel 3-day evap.				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
<b>Evaporative/Refueling Family</b>	VKMXR0125NEG		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	California fuel 2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
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		VKMXV02.0NE3	Evaporative/Refueling Family		VKMXR0125NEG
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	
<b>Certification Region</b>					
CA	California + CAA Section 177 states		FA	Federal	
<b>Exhaust Emission Standard Level</b>					
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	VKMXV02.0NE3	Evaporative/Refueling Family	VKMXR0125NEG
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		
<b>Transmission Type Code</b>			
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)
<b>Drive System Code</b>			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

## Certification Summary Information Report

Test Group	VKMXV02.0NE3	Evaporative/Refueling Family		VKMXR0125NEG
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
<b>Additional Terms and Acronyms</b>				
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	