



Application for Certification - Part 1

Test Group (CBI)

- **Model Year:** 2027
- **Manufacturer Name:** Kia Corporation
- **Test Group:** VKMXT02.5MP3
- **Test Group Description:** 2.5 Liter / I4 Turbo GDPI / Otto-cycle
- **Durability Group:** VKMXGPGNNMP3
- **Durability Group Description:** Monolith, WU-TWC+GPF+TWC
- **Vehicle Class:** LDT3
- **Applicable Standards:** FED: Interim Tier4 SULEV30 / Tier4 Evap.
CAL: LEV-IV SULEV30 / LEV-IV Evap.
- **Vehicles Tested:** EDV - LQ2HAU6H5TA100A/0 (Exh.)
KA4U2L5GA069F/0 (Evap.)
FEDV - LQ2LAU6H5TA084A/0
LQ2-AU6H5TA050A/0
LQ2-AU6H5TA064F/0
LQ2-AU6H5TA064F/1
- **Carlines Covered by Certificate:** Telluride AWD, Telluride FWD
Telluride X-PRO
- **EPA Response Requested by:** October 25, 2025
- **For Questions, Contact:** Stephanie Wright
Tel: 734-273-1904
E-mail: swright@hatci.com

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01.00 Correspondence and Communications

Please refer to Common Section 01.00.

For questions, call Stephanie Wright (734-273-1904).

02.00 Durability Group Description

- | | | |
|---|---|--------------------------|
| 1. Durability group name | : | VKMXPNNMP3 |
| 2. Combustion cycle | : | Otto cycle / four stroke |
| 3. Engine type | : | Piston / Water cooled |
| 4. Fuel used | : | Gasoline |
| 5. Basic fuel metering system | : | Direct & Port Injection |
| 6. Catalyst construction and location | : | See Section 02.02 |
| 7. Precious metals in catalyst | : | See Section 02.02 |
| 8. Precious Metal Loading for all Catalysts in the Durability Group | : | See Section 02.02 |
| 9. Range of catalyst grouping statistics | : | See Section 02.02 |
| 10. Type of particulate filter | : | Catalyzed |

02.01 List of Vehicles in Durability Groups

Please refer to Common Section 02.01.

03.00 Evaporative/Refueling Family Description

03.00.01 Evaporative/Refueling Family Name: VKMXR0151MPG (C/O from 22MY Carnival)

03.00.01.01 Evaporative/Refueling Family Parameters

1. Type of vapor storage device: Canister(1EA), Air cleaner (1EA)

2. Basic canister design

Evap. code	Absorption flow rate (g/hr)	Nominal working capacity (g)	Size (cc)	Material	Medium	Nominal fuel tank capacity (gal)
151MPG	15	151	2550	Plastic	Activated Carbon	19

3. Fuel system: Returnless fuel system

4. Type of refueling emission control system: Integrated type

5. Fill pipe seal mechanism: Liquid seal type

6. Vapor control system or method of vapor line to the canister:

a. Fill limit Vent valve / Overfill limiter / Canister close valve (ORVR)

7. Purge control system

a. Type of valve: Duty

b. Purge control strategy: Controlled by ECU

c. High load purge system : N/A

d. Active purge system : N/A

8. Vapor hose material: Rubber

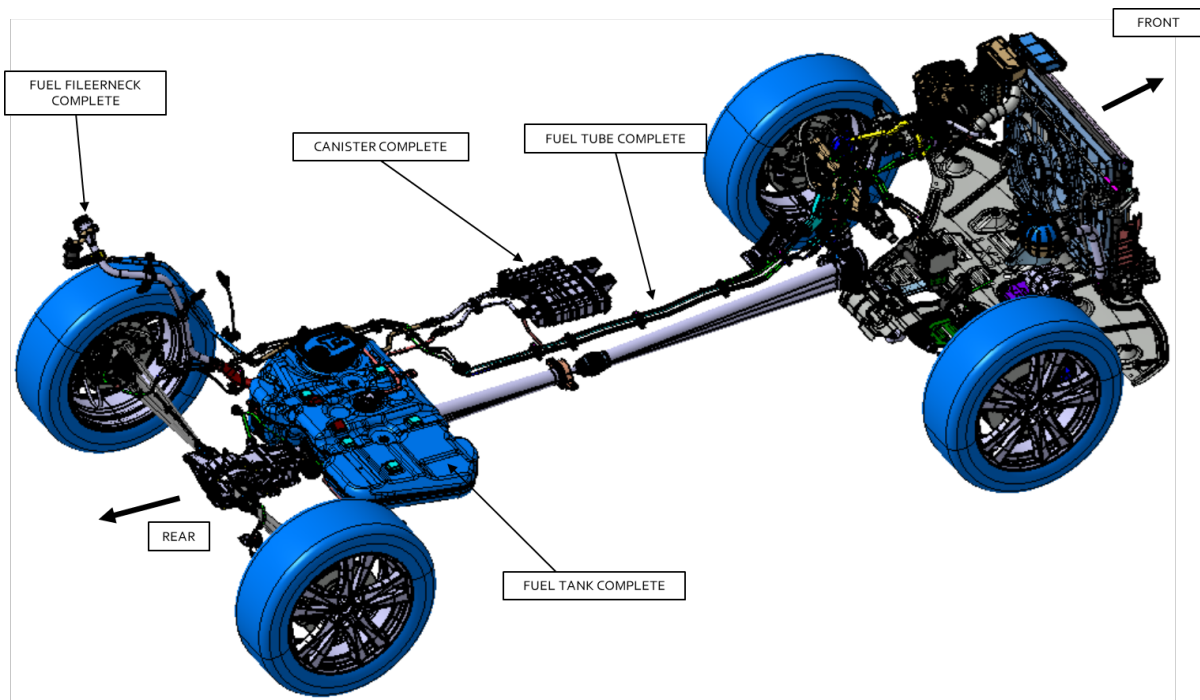
9. Fuel tank material: Plastic

10. HC-Trap :

a. Media : PAPER containing Activated Carbon

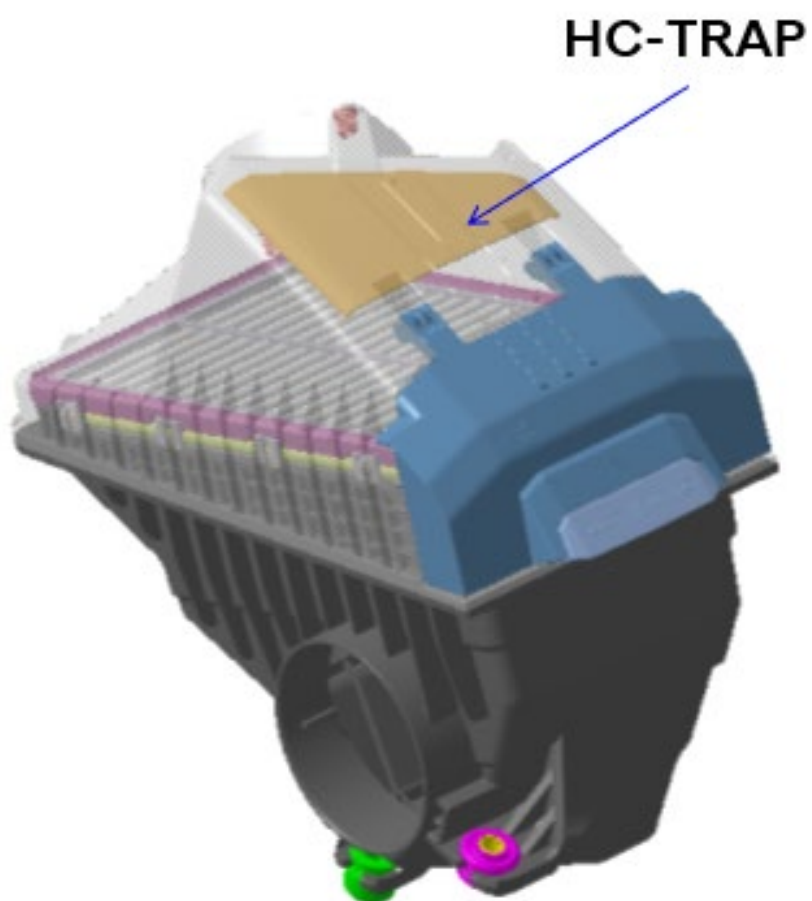
b. Working capacity: 0.5g

03.00.01.02 Evaporative/Refueling Schematic



VKMXT02.5MP3 - Kia Telluride— Part 1
Issued : 09-25-2025
Revised:

03.00.01.03 HC-Trap Schematic



VKMXT02.5MP3 - Kia Telluride— Part 1
Issued : 09-25-2025
Revised:

03.01 Evaporative/Refueling General Description

Please refer to Common Section 03.01.

03.02 List of Vehicles in Evaporative Families

Please refer to Common Section 03.02.

05.00 Test Group Description

Test group name	:	VKMXT02.5MP3
Engine displacement (L) covered	:	2.5L
Arrangement/number of cylinders	:	I4
Vehicle class(s) covered	:	LDT3
Sales location/emission standard	:	FED: Interim Tier4 Bin30 CAL: LEV-IV SULEV30 See CSI report for emission standard levels.

06.00 Test Vehicle Description

1. Exhaust Durability Data Vehicle

Verify Processing Report

Total Datasets Submitted: 1

Accepted Datasets: 1

Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : N

EPA Manufacturer Code : KMX

Vehicle Identification Text : KNAPBAB16R1P98027

Vehicle Configuration Number : 0

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0

Test Group Name : VKMXT02.5MP3

Evaporative Refueling Family Name : VKMXR0151MPG

Leak Family Identifier : LQ2

Leak Family Name : VKMXR0151MPG-LQ2

Model Year : 2027

Actual Test Vehicle Make Text : Kia

Actual Test Vehicle Model Text : Telluride

Drive Source Details

Drive Source Identifier : C

Fuel Identifier : G

Test Drive Code : F

Shift Indicator Light Usage Identifier : 1

Aged Component Usage Identifier : 4

Odometer Correction Details

Correction Initial Value : 0

Correction Factor Value : 0.9997

Correction Sign Identifier : +

Correction Units Code : M

Engine Code Text : G4KP-AC

Engine Rated Horsepower Value : 274

Engine Displacement Value : 2.5

VKMXT02.5MP3 - Kia Telluride— Part 1

Issued : 09-25-2025

Revised:

Air Aspiration Details

Air Aspiration Method Identifier : TC
Air Aspiration Device Count : 1
Air Aspiration Configuration Identifier : N

Charge Air Cooler Identifier : L

Vehicle Specifications Details

Curb Weight Value : 4729
Equivalent Test Weight Value : 5250
Gross Vehicle Weight Rating Value : 6261
NV Ratio Value : 26.2
Axle Ratio Value : 3.51

Transmission Specifications Details

Light Duty Transmission Type Identifier : SA
Transmission Lockup Indicator : Y
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 8

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 39.277
Target CoefficientB Value : 0.50035
Target CoefficientC Value : 0.026036
Set CoefficientA Value : 20.346
Set CoefficientB Value : 0.21615
Set CoefficientC Value : 0.027415

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO
Target CoefficientA Value : 43.205
Target CoefficientB Value : 0.55039
Target CoefficientC Value : 0.028640
Set CoefficientA Value : 12.806
Set CoefficientB Value : -0.07055
Set CoefficientC Value : 0.032817

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 39.277
Target CoefficientB Value : 0.50035
Target CoefficientC Value : 0.026036
Set CoefficientA Value : 20.346
Set CoefficientB Value : 0.21615
Set CoefficientC Value : 0.027415

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 39.277
Target CoefficientB Value : 0.50035
Target CoefficientC Value : 0.026036
Set CoefficientA Value : 20.346
Set CoefficientB Value : 0.21615
Set CoefficientC Value : 0.027415

Manufacturer Comment Text : Telluride X-PRO 2.5 8AT 18in X-Pro 5250 AWD (DDV)

EPA Generated Test Vehicle Details

Original Receipt Date : 20250902
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 5495
Loaded Vehicle Weight Value : 5029
Total Road Load Horsepower Value : 17.3

Transaction Status Details

Transaction Status Identifier : ACCEPTED

2. Exhaust & Evaporative Emission Data Vehicle

Please refer to CSI report in 07.00.

07.00
07.01

Test Results EV-CIS Certification Summary Information

Date: 09/25/2025 07:51:37 PM

Certification Summary Information Report

Manufacturer	Kia Corporation	Manufacturer Code	KMX
Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	09/25/2025 07:51:15 PM
Model Year	2027		

Test Group Information									
CSI Type	New	Running Change Reference Number	--						
GHG Exempt Status	Not Exempt								
Drive Sources and Fuel(s)									
Drive Source #1:	Combustion Engine								
	<table><tr><th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr><tr><td>Gasoline</td><td>Spark Ignition direct & ported injection</td><td>No</td></tr></table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Gasoline	Spark Ignition direct & ported injection	No		
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Gasoline	Spark Ignition direct & ported 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	LDT3						
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--						
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No						
Durability Group Name	VKMXGPGNNMP3	Durability Group Equivalency Factor	1.0						
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA						
Complies with HD GHG 2b/3 regulations?	No								
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A						
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--						
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No						
SFTP LEV-III Composite Compliance Indicator	No								
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VKMXT02.5MP3						
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0						
OBD Deficiencies Comments	--								
Mfr Test Group Comments	The fuel for Litmus test is E10. Litmus result(Value/Threshold): City(17.2/16.6) HWY(21.9/22.3). Test No: VKMX91006591(FTP),VKMX91006590(HWY),VKMX10091531(US06),VKMX10091530(SC03),VKMX10091532(Cold)								
Mfr Exhaust / Evap Standards Comments	--								

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	09/18/2025 08:56:16 PM
Integrated ORVR?	Yes	Fuel(s)	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	HC-Trap
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	151	Number of Primary Canisters	1
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--
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
VKMXR0151MPG-LQ2	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	101 - Telluride FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Semi-Automatic	8	Yes
Kia Corporation	1 - KIA	102 - Telluride X-PRO	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Kia Corporation	1 - KIA	100 - Telluride AWD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Kia Corporation	1 - KIA	101 - Telluride FWD	Federal	2-Wheel Drive, Front	Semi-Automatic	8	Yes
Kia Corporation	1 - KIA	100 - Telluride AWD	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Kia Corporation	1 - KIA	102 - Telluride X-PRO	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG	
Engine Description				
Hybrid Type	--	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--	
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	--	
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-30	
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	N	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments		WU-TWC + GPF + TWC		
Direct Ozone Reduction (DOR) Device		Not Equipped		
Mfr Emission Control Device Comments		--		
Engine Configuration Number 1				
Engine Displacement (liters)	2.5	Engine Rated Horsepower	258	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1	
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Air	
Air Aspiration Drive Method(s)	Mechanical			
Cylinder Deactivation	No			
Cylinder Deactivation Description	--			
Variable Valve Timing	Yes			
Variable Valve Timing System Description	Fixed3(More than two or continuous)			
Variable Valve Lift?	No			
Variable Valve Lift System Description	--			
Number of Knock Sensors	2	Number of Air/Fuel Sensors	2	
Air/Fuel Sensor # 1 Type	Other	Air/Fuel Sensor # 1 Description	WR-HO2S	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	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		VKMXT02.5MP3				Evaporative/Refueling Family		VKMXR0151MPG		
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	VKMX91006591	VKMX10091531	VKMX10091530	VKMX10091532	VKMX91006590	35.7	16.6	20.8	22.3	--
SFTP LEV-III Official Test Numbers										
Test Group Fuel	FTP		US06		SC03					
Gasoline	VKMX91006591		VKMX10091531		VKMX10091530					

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG					
Emission Data Vehicle Information								
Vehicle ID / Configuration	KA4U2L5GA069F / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	NKMXT03.5KU5	Original Evaporative/Refueling Family	NKMXR0155KUG					
Original Test Vehicle Model Year	2022							
Vehicle Model								
Represented Test Vehicle Make	KIA	Represented Test Vehicle Model	CARNIVAL					
Leak Family Details								
Leak Family Identifier	KA4	Leak Family Name	NKMXR0155KUG-KA4					
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	1.0003					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	G6DT-AC	Rated Horsepower	290					
Displacement (liters)	3.5							
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)	4535	Equivalent Test Weight (pounds)	4750					
GVWR (lbs)	6041	N/V Ratio	27					
Axle Ratio	3.51							
Transmission Type	Semi-Automatic	# of Transmission Gears	8					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients							
	Set Coefficients							
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	26.773	0.39493	0.027419					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	8.532	0.23356	0.027937					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	15.3							
Emission Control Device Comments	--							

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG						
Manufacturer Test Vehicle Comments	KA4 3.5 8AT 19" EVAP								
Test #	NKMX10066867	Test Procedure	38 - CA fuel 3-day evap.						
Exhaust Test # for this Evap Test	NKMX10066851	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	07/24/2020	Fuel	Gasoline						
Fuel Batch ID	19E-03	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	772-1, Jangduck-Dong								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4225	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.2745</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2745	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2745	--							
Manufacturer Test Comments	22MY KA4 3.5 19"(ETW:4750)-3DBL								
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	0.2745	0	0.274	0.500	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2745	0	0.274	0.500	Pass	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG						
Test #	NKMX91004661	Test Procedure	27 - California fuel 2-day evap						
Exhaust Test # for this Evap Test	NKMX91004658	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	11/04/2020	Fuel	Gasoline						
Fuel Batch ID	26757	Fuel Calibration Number	1						
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	4363	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>0.215781</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)	0.215781	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.215781	--							
Manufacturer Test Comments									
Hot_Soak_HC_(g) = 0.024241, Diurnal (gHC) = 0.191540									
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	0.2158	0	0.216	0.500	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2158	0	0.216	0.500	Pass	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG						
Test #	NKMX10066866	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	NKMX10066851	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	07/24/2020	Fuel	Gasoline						
Fuel Batch ID	19E-03	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	772-1, Jangduck-Dong								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4225	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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0001</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0001	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0001	--							
Manufacturer Test Comments 22MY KA4 3.5 19"(ETW:4750) CA E10-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	0.000	0	0.00	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0	0.00	0.05	Pass	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG						
Test #	NKMX10066868	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	NKMX10066859	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	07/21/2020	Fuel	Gasoline						
Fuel Batch ID	19T-03	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	772-1, Jangduck-Dong								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4157	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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0011</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0011	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0011	--							
Manufacturer Test Comments									
22MY KA4 3.5 19"(ETW:4750) CA E10-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	0.001	0	0.00	0.20	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.001	0	0.00	0.20	Pass	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG						
Test #	NKMX10066870	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	07/09/2020	Fuel	Gasoline						
Fuel Batch ID	19E-03	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	772-1, Jangduick-Dong								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4112	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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0061</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.0061	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.0061	--							
Manufacturer Test Comments									
22MY KA4 3.5 19"(ETW:4750) CA E10-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	0.0061	0	0.006	0.020	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0061	0	0.006	0.020	Pass	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG						
Test #	NKMX10066871	Test Procedure	68 - Leak Test - Port Near Fuel Pipe						
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	07/28/2020	Fuel	Gasoline						
Fuel Batch ID	19T-03	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	772-1, Jangduck-Dong								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	4253	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>LEAK-DIA (Effective Leak Diameter (inches))</td> <td>0</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	LEAK-DIA (Effective Leak Diameter (inches))	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
LEAK-DIA (Effective Leak Diameter (inches))	0	--							
Manufacturer Test Comments									
22MY KA4 3.5 19"(ETW:4750) CA E10-Leak Test Port Near Fuel Pipe-Correct Odometer									
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	0.0000	0	0.000	0.020	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	LEAK-DIA	0.000	0	0.00	0.02	Pass	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG						
Test #	NKMX10066872	Test Procedure	67 - Leak Test - Port Near Canister						
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	07/28/2020	Fuel	Gasoline						
Fuel Batch ID	19T-03	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	772-1, Jangduck-Dong								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	4253	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value</td> </tr> <tr> <td>LEAK-DIA (Effective Leak Diameter (inches))</td> <td>0</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	LEAK-DIA (Effective Leak Diameter (inches))	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
LEAK-DIA (Effective Leak Diameter (inches))	0	--							
Manufacturer Test Comments									
22MY KA4 3.5 19"(ETW:4750) CA E10-Leak Test Port Near Canister-CORRECT ODORMETER									
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	0.0000	0	0.000	0.020	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	LEAK-DIA	0.000	0	0.00	0.02	Pass	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG					
Emission Data Vehicle Information								
Vehicle ID / Configuration	LQ2HAU6H5TA100A / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	VKMXT02.5MP3	Original Evaporative/Refueling Family	VKMXR0151MPG					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	Kia	Represented Test Vehicle Model	Telluride					
Leak Family Details								
Leak Family Identifier	LQ2	Leak Family Name	VKMXR0151MPG-LQ2					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </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	0.9997					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	G4KP-AC	Rated Horsepower	274					
Displacement (liters)	2.5							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single					
Charge Air Cooler Type	Liquid	Drive Mode While Testing	2-Wheel Drive, Front					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	4729	Equivalent Test Weight (pounds)	5250					
GVWR (lbs)	6261	N/V Ratio	26.2					
Axle Ratio	3.51							
Transmission Type	Semi-Automatic	# of Transmission Gears	8					
Transmission Lockup	Yes	Creep Gear	No					

Certification Summary Information Report

Test Group	VKMXT02.5MP3			Evaporative/Refueling Family			VKMXR0151MPG
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	39.277	0.50035	0.026036	20.346	0.21615	0.027415	17.3
Cold CO	43.205	0.55039	0.02864	12.806	-0.07055	0.032817	N/A
US06	39.277	0.50035	0.026036	20.346	0.21615	0.027415	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	Telluride X-PRO 2.5 8AT 18in X-Pro 5250 AWD. TYPO of EVAP family was corrected.						

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Test #	VKMX10091532	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	06/19/2025	Fuel	Gasoline
Fuel Batch ID	25D-01	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	772-1, Jangduck-Dong		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4464	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	Yes
Test Results			

Certification Summary Information Report

Test Group	VKMXT02.5MP3			Evaporative/Refueling Family				VKMXR0151MPG																																																																																																																																																					
<table><tr><th colspan="2">Test Result Name</th><th colspan="2">Unrounded Test Result</th><th colspan="2">Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td colspan="2">CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td colspan="2">539</td><td colspan="2">--</td></tr><tr><td colspan="2">CO BAG 1 (Bag 1 Carbon Monoxide)</td><td colspan="2">0.83</td><td colspan="2">--</td></tr><tr><td colspan="2">FE BAG 1 (Bag 1 Fuel Economy)</td><td colspan="2">16.1</td><td colspan="2">16.1</td></tr><tr><td colspan="2">CH4 BAG 1 (Bag 1 Methane)</td><td colspan="2">0.14</td><td colspan="2">--</td></tr><tr><td colspan="2">NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td colspan="2">0.205</td><td colspan="2">--</td></tr><tr><td colspan="2">CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td colspan="2">452</td><td colspan="2">--</td></tr><tr><td colspan="2">CO BAG 2 (Bag 2 Carbon Monoxide)</td><td colspan="2">0.05</td><td colspan="2">--</td></tr><tr><td colspan="2">FE BAG 2 (Bag 2 Fuel Economy)</td><td colspan="2">19.3</td><td colspan="2">19.3</td></tr><tr><td colspan="2">CH4 BAG 2 (Bag 2 Methane)</td><td colspan="2">0</td><td colspan="2">--</td></tr><tr><td colspan="2">NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td colspan="2">0.003</td><td colspan="2">--</td></tr><tr><td colspan="2">CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td colspan="2">383</td><td colspan="2">--</td></tr><tr><td colspan="2">CO BAG 3 (Bag 3 Carbon Monoxide)</td><td colspan="2">0</td><td colspan="2">--</td></tr><tr><td colspan="2">FE BAG 3 (Bag 3 Fuel Economy)</td><td colspan="2">22.7</td><td colspan="2">22.7</td></tr><tr><td colspan="2">CH4 BAG 3 (Bag 3 Methane)</td><td colspan="2">0</td><td colspan="2">--</td></tr><tr><td colspan="2">NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td colspan="2">0.008</td><td colspan="2">--</td></tr><tr><td colspan="2">METHANE (CH4 - Methane)</td><td colspan="2">0.0082</td><td colspan="2">--</td></tr><tr><td colspan="2">CO (Carbon Monoxide)</td><td colspan="2">0.1977</td><td colspan="2">--</td></tr><tr><td colspan="2">DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td colspan="2">-0.89</td><td colspan="2">--</td></tr><tr><td colspan="2">DT-EER (Drive Trace Energy Economy Rating)</td><td colspan="2">-0.84</td><td colspan="2">--</td></tr><tr><td colspan="2">DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td colspan="2">-1.12</td><td colspan="2">--</td></tr><tr><td colspan="2">MFR FE (Manufacturer Fuel Economy)</td><td colspan="2">19.2902</td><td colspan="2">19.2902</td></tr><tr><td colspan="2">NOX (Nitrogen Oxide)</td><td colspan="2">0.0062</td><td colspan="2">--</td></tr><tr><td colspan="2">NMOG (Non-methane organic gases)</td><td colspan="2">0.0318</td><td colspan="2">--</td></tr></table>														Test Result Name		Unrounded Test Result		Verify Calculated FE Equivalent Value (miles per gallon)		CO2 BAG 1 (Bag 1 Carbon Dioxide)		539		--		CO BAG 1 (Bag 1 Carbon Monoxide)		0.83		--		FE BAG 1 (Bag 1 Fuel Economy)		16.1		16.1		CH4 BAG 1 (Bag 1 Methane)		0.14		--		NMOG BAG 1 (Bag 1 Non-methane organic gases)		0.205		--		CO2 BAG 2 (Bag 2 Carbon Dioxide)		452		--		CO BAG 2 (Bag 2 Carbon Monoxide)		0.05		--		FE BAG 2 (Bag 2 Fuel Economy)		19.3		19.3		CH4 BAG 2 (Bag 2 Methane)		0		--		NMOG BAG 2 (Bag 2 Non-methane organic gases)		0.003		--		CO2 BAG 3 (Bag 3 Carbon Dioxide)		383		--		CO BAG 3 (Bag 3 Carbon Monoxide)		0		--		FE BAG 3 (Bag 3 Fuel Economy)		22.7		22.7		CH4 BAG 3 (Bag 3 Methane)		0		--		NMOG BAG 3 (Bag 3 Non-methane organic gases)		0.008		--		METHANE (CH4 - Methane)		0.0082		--		CO (Carbon Monoxide)		0.1977		--		DT-ASCR (Drive Trace Absolute Speed Change Rating)		-0.89		--		DT-EER (Drive Trace Energy Economy Rating)		-0.84		--		DT-IWRR (Drive Trace Inertia Work Ratio Rating)		-1.12		--		MFR FE (Manufacturer Fuel Economy)		19.2902		19.2902		NOX (Nitrogen Oxide)		0.0062		--		NMOG (Non-methane organic gases)		0.0318		--	
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<table><tr><th colspan="2">Test Result Name</th><th colspan="2">Unrounded Test Result</th><th colspan="2">Verify Calculated CO2</th></tr><tr><td colspan="2">Carbon dioxide</td><td colspan="2">451.0887</td><td colspan="2">--</td></tr></table>														Test Result Name		Unrounded Test Result		Verify Calculated CO2		Carbon dioxide		451.0887		--																																																																																																																																					
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Manufacturer Test Comments LQ2 2.5T X-PRO 5250 18inch E10 - Cold FTP (Normal mode) Type of fuel batch ID was corrected to 25D-01																																																																																																																																																													
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	0.20	--	--	--	0.06	--	0.3	12.5	Pass																																																																																																																																																	
CA	50,000 miles	California LEV-IV SULEV30	CO	0.20	--	--	--	0.06	--	0.3	12.5	Pass																																																																																																																																																	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG																											
Test #	VKMX10091533	Test Procedure	52 - Fed. fuel 50 F exh.																											
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																											
Test Date	06/10/2025	Fuel	Gasoline																											
Fuel Batch ID	25T-02	Fuel Calibration Number	1																											
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																											
Verify Test Lab ID	772-1, Jangduck-Dong																													
E10 Evaporative Test Measurement Method	--																													
Test Start Odometer Reading	4339	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	Yes																											
Test Results																														
<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr> </thead> <tbody> <tr> <td>METHANE (CH4 - Methane)</td><td>0.0032</td><td>--</td></tr> <tr> <td>CO (Carbon Monoxide)</td><td>0.0646</td><td>--</td></tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.69</td><td>--</td></tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.16</td><td>--</td></tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-2.51</td><td>--</td></tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td><td>21.6902</td><td>21.6902</td></tr> <tr> <td>NOX (Nitrogen Oxide)</td><td>0.0068</td><td>--</td></tr> <tr> <td>NMOG (Non-methane organic gases)</td><td>0.0042</td><td>--</td></tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	METHANE (CH4 - Methane)	0.0032	--	CO (Carbon Monoxide)	0.0646	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.69	--	DT-EER (Drive Trace Energy Economy Rating)	-1.16	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.51	--	MFR FE (Manufacturer Fuel Economy)	21.6902	21.6902	NOX (Nitrogen Oxide)	0.0068	--	NMOG (Non-methane organic gases)	0.0042	--
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NOX (Nitrogen Oxide)	0.0068	--																												
NMOG (Non-methane organic gases)	0.0042	--																												
<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>402.8559</td><td>--</td></tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	402.8559	--																					
Test Result Name	Unrounded Test Result	Verify Calculated CO2																												
Carbon dioxide	402.8559	--																												
Manufacturer Test Comments	LQ2 2.5T X-PRO 5250 18inch E10 - 50F (Normal mode)																													

Certification Summary Information Report

Test Group		VKMXT02.5MP3			Evaporative/Refueling Family					VKMXR0151MPG		
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	0.06	--	--	--	--	--	0.1	1.0	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG	0.0042	--	1.10	--	--	--	0.004	99.999	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0110	--	--	--	--	--	0.011	0.060	Pass
CA	4,000 miles	California LEV-IV SULEV30	NOX	0.0068	--	--	--	--	--	0.007	99.999	Pass

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Test #	VKMX91006591	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/05/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4963	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	Yes
Test Results			

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
<div> <div>Test Result Name</div> <div>Unrounded Test Result</div> <div>Verify Calculated FE Equivalent Value (miles per gallon)</div> </div>	CO2 BAG 1 (Bag 1 Carbon Dioxide)	432.5580444	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.212431	--
	FE BAG 1 (Bag 1 Fuel Economy)	999	--
	CH4 BAG 1 (Bag 1 Methane)	0.007507	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0488925	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	409.5108948	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--
	FE BAG 2 (Bag 2 Fuel Economy)	999	--
	CH4 BAG 2 (Bag 2 Methane)	0.0025808	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0004416	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	384.093689	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0039043	--
	FE BAG 3 (Bag 3 Fuel Economy)	999	--
	CH4 BAG 3 (Bag 3 Methane)	0.0020411	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0000386	--
	METHANE (CH4 - Methane)	0.0034517	--
	CO (Carbon Monoxide)	0.0449999	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4601968	--
	DT-EER (Drive Trace Energy Economy Rating)	-0.0818733	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.2842916	--
	MFR FE (Manufacturer Fuel Economy)	999	--
	NOX (Nitrogen Oxide)	0.0080556	--
	N2O (Nitrous Oxide)	0.0021071	--
	HC-NM (Non-methane Hydrocarbon)	0.0094042	--
	NMOG (Non-methane organic gases)	0.0103272	--
	PM (Particulate Matter)	0.0003131	--
	HC-TOTAL (Total Hydrocarbon)	0.0127479	--
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
	Carbon-Related Exhaust Emissions	9999.9999999	407
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	407.3131714	--
<div> <div>Manufacturer Test Comments</div> <div>None</div> <div>Unrounded Result for the following test results were modified by Verify: FE BAG 2, MFR FE, FE BAG 1, FE BAG 3</div> </div>			

Certification Summary Information Report

Test Group		VKMXT02.5MP3				Evaporative/Refueling Family				VKMXR0151MPG		
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	407	--	--	--	0.247782	--	407	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0035	--	--	--	0.0019	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0021	--	--	--	0.0024	--	0.004	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.04	--	--	--	0.18	--	0.2	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.23	--	--	--	0	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0103	--	1.10	--	0.0022	--	0.012	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0184	--	--	--	--	--	0.023	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0187	--	--	--	0	--	0.019	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0081	--	--	--	0.0028	--	0.011	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0.0000	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.04	--	--	--	0.18	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0103	--	1.10	--	0.0022	--	0.012	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0184	--	--	--	--	--	0.023	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0081	--	--	--	0.0028	--	0.011	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0003	--	--	--	0.0000	--	0.000	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

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Test #	VKMX91006590	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/05/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4974	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	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.0004405	--	
CO (Carbon Monoxide)	0.0138188	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.5805302	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.299486	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.1691642	--	
MFR FE (Manufacturer Fuel Economy)	32.4149513	--	
NOX (Nitrogen Oxide)	0.0022357	--	
N2O (Nitrous Oxide)	0.0002274	--	
HC-NM (Non-methane Hydrocarbon)	0.0007036	--	
NMOG (Non-methane organic gases)	0.0007247	--	
HC-TOTAL (Total Hydrocarbon)	0.0011303	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	9999.9999999	268	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	268.4006042	--	
Manufacturer Test Comments	None		

Certification Summary Information Report

Test Group		VKMXT02.5MP3			Evaporative/Refueling Family				VKMXR0151MPG			
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	268	--	--	--	0.247782	--	268	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0007	--	1.03	--	0.0022	--	0.003	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0029	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0022	--	--	--	0.0028	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0007	--	1.03	--	0.0022	--	0.003	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0029	--	--	--	--	--	0.008	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0022	--	--	--	0.0028	--	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

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Test #	VKMX10091531	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/03/2025	Fuel	Gasoline
Fuel Batch ID	25T-02	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	772-1, Jangduck-Dong		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4277	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	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	694	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0	--	
FE BAG 1 (Bag 1 Fuel Economy)	12.6	12.6	
CH4 BAG 1 (Bag 1 Methane)	0.004	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	376	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.17	--	
FE BAG 2 (Bag 2 Fuel Economy)	23.2	23.2	
CH4 BAG 2 (Bag 2 Methane)	0.002	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
METHANE (CH4 - Methane)	0.0028	--	
CO (Carbon Monoxide)	0.1301	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.94	--	
DT-EER (Drive Trace Energy Economy Rating)	-2.06	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.57	--	
MFR FE (Manufacturer Fuel Economy)	19.5952	19.5952	
NOX (Nitrogen Oxide)	0.0143	--	
NMOG (Non-methane organic gases)	0	--	
PM (Particulate Matter)	0.0028	--	

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	446.1902	--

Manufacturer Test Comments LQ2 2.5T X-PRO 5250 18inch E10 - US06 (Normal mode)

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	0.1301	--	--	--	0.18	--	0.310	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	1.03	--	0.0022	--	0.002	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0143	--	--	--	--	--	0.019	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0143	--	--	--	0.0028	--	0.017	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0028	--	--	--	0.0000	--	0.003	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.13	--	--	--	0.18	--	0.3	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0000	--	1.03	--	0.0022	--	0.002	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0143	--	--	--	--	--	0.019	0.036	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0143	--	--	--	0.0028	--	0.017	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0028	--	--	--	0.0006	--	0.003	0.006	Pass

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Test #	VKMX10091530	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/06/2025	Fuel	Gasoline
Fuel Batch ID	25T-02	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	772-1, Jangduck-Dong		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4324	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	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.0013	--	
CO (Carbon Monoxide)	0	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.4	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.15	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.14	--	
MFR FE (Manufacturer Fuel Economy)	18.7229	18.7229	
NOX (Nitrogen Oxide)	0.0088	--	
NMOG (Non-methane organic gases)	0	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	466.6815	--	
Manufacturer Test Comments	LQ2 2.5T X-PRO 5250 18inch E10 - SC03 (Normal mode)		

Certification Summary Information Report

Test Group		VKMXT02.5MP3			Evaporative/Refueling Family					VKMXR0151MPG		
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	0.0000	--	--	--	0.18	--	0.180	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	1.03	--	0.0022	--	0.002	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0088	--	--	--	--	--	0.014	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0088	--	--	--	0.0028	--	0.012	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.00	--	--	--	0.18	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0000	--	1.03	--	0.0022	--	0.002	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0088	--	--	--	--	--	0.014	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0088	--	--	--	0.0028	--	0.012	99.999	Pass

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Fuel Properties			
Fuel Batch ID	43732	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/13/2025
Fuel Batch Calibration Effective Date	06/13/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17885
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.37	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	25T-02	Fuel Calibration Number	1
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	0.743
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)	41.498	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	19E-03	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	08/08/2019
Fuel Batch Calibration Effective Date	10/29/2019	Fuel Batch Calibration Ineffective Date	10/29/2022
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17917
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	25D-01	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	02/25/2025
Fuel Batch Calibration Effective Date	04/02/2025	Fuel Batch Calibration Ineffective Date	04/02/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
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)	41.694	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	26757	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	07/27/2017
Fuel Batch Calibration Effective Date	07/27/2017	Fuel Batch Calibration Ineffective Date	07/27/2032
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)	17958
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	19T-03	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/22/2019
Fuel Batch Calibration Effective Date	04/13/2020	Fuel Batch Calibration Ineffective Date	04/13/2023
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17949
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	VKMXT02.5MP3	Evaporative/Refueling Family					VKMXR0151MPG		
Consolidated List of Standards									
Exhaust Standards									
Cert Region	Federal	Cert/In-Use Code					Cert		
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level					Federal Tier 3 Bin 30		
Fuel	Gasoline	Test Procedure					Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.247782	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0019	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0024	0.010
150,000 miles	CO	--	--	--	--	--	--	0.18	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003
Cert Region									
Cert Region	California + CAA Section 177 states	Cert/In-Use Code					Cert		
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level					California LEV-IV SULEV30		
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	--	--	1.03	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999

Certification Summary Information Report

Test Group		VKMXT02.5MP3			Evaporative/Refueling Family			VKMXR0151MPG	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.18	99.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	99.999
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			Fed. fuel 50 F exh.	
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	--	--	--	--	--	--	--	1.0
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008
4,000 miles	NMOG	--	--	1.10	--	--	--	--	99.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.060
4,000 miles	NOX	--	--	--	--	--	--	--	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
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	CO	--	--	--	--	--	--	0.18	1.0
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.001

Certification Summary Information Report

Test Group		VKMXT02.5MP3			Evaporative/Refueling Family			VKMXR0151MPG	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.06	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.0016	0.5
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.18	99.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	99.999
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
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	--	--	--	--	--	--	0.18	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.036
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.006

Certification Summary Information Report

Test Group		VKMXT02.5MP3			Evaporative/Refueling Family			VKMXR0151MPG	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
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	--	--	--	--	--	--	0.06	12.5
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.247782	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
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	--	--	--	--	--	--	0.18	1.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0028	99.999
Evaporative/Refueling Standards									

Certification Summary Information Report

Test Group		VKMXT02.5MP3		Evaporative/Refueling Family		VKMXR0151MPG	
Evaporative/Refueling Family		VKMXR0151MPG		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	--	0.020	0		
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		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		
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
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		
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0		
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		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

Test Group		VKMXT02.5MP3		Evaporative/Refueling Family		VKMXR0151MPG	
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		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		
Evaporative/Refueling Family		VKMXR0151MPG		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		
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Leak Test - Port Near Canister					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	LEAK-DIA	--	0.020	0		
Evaporative/Refueling Family		VKMXR0151MPG		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		VKMXR0151MPG		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		
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
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		

Certification Summary Information Report

Test Group		VKMXT02.5MP3		Evaporative/Refueling Family		VKMXR0151MPG	
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
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		
Evaporative/Refueling Family		VKMXR0151MPG		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-TOTAL-EQUIV	--	0.20	0		
Evaporative/Refueling Family		VKMXR0151MPG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		

Certification Summary Information Report

Test Group		VKMXT02.5MP3	Evaporative/Refueling Family		VKMXR0151MPG
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		AS-VOLT	Average System Voltage	
CO	Carbon Monoxide		CO2 BAG 1	Bag 1 Carbon Dioxide	
CO2	Carbon dioxide		CO2 BAG 2	Bag 2 Carbon Dioxide	
CREE	Carbon-Related Exhaust Emissions		CO2 BAG 3	Bag 3 Carbon Dioxide	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		CO2 BAG 4	Bag 4 Carbon Dioxide	
NOX	Nitrogen Oxide		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
PM	Particulate Matter		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
PM-COMP	SFTP Composite Particulate Matter		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM	Non-methane Hydrocarbon		DT-ASCR	Drive Trace Absolute Speed Change Rating	
OMHCE	Organic material Hydrocarbon Equivalent		DT-EER	Drive Trace Energy Economy Rating	
OMNMHCE	Organic material non-methane HC equivalent		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
NMOG	Non-methane organic gases		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
HCHO	Formaldehyde		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
H3C2HO	Acetaldehyde		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		LEAK-DIA	Effective Leak Diameter (inches)	
CO-COMP	SFTP Composite Carbon Monoxide		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
ETHANOL	C2H5OH - Ethanol		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
FE BAG 1	Bag 1 Fuel Economy		KW-HRS	Integrated DC KW-HRS	
FE BAG 2	Bag 2 Fuel Economy		CH4 BAG 1	Bag 1 Methane	
FE BAG 3	Bag 3 Fuel Economy		CH4 BAG 2	Bag 2 Methane	
FE BAG 4	Bag 4 Fuel Economy		CH4 BAG 3	Bag 3 Methane	
MFR FE	Manufacturer Fuel Economy		CH4 BAG 4	Bag 4 Methane	
HC	Hydrocarbon for Running Loss and ORVR		CO BAG 1	Bag 1 Carbon Monoxide	
METHANE	CH4 - Methane		CO BAG 2	Bag 2 Carbon Monoxide	
METHANOL	CH3OH - Methanol		CO BAG 3	Bag 3 Carbon Monoxide	
N2O	Nitrous Oxide		CO BAG 4	Bag 4 Carbon Monoxide	
SPITBACK	Spitback Hydrocarbon in grams		NMOG BAG 1	Bag 1 Non-methane organic gases	
AMP-HRS	Integrated Amp-hours		NMOG BAG 2	Bag 2 Non-methane organic gases	
START-SOC	System Start State of Charge Watt-hours		NMOG BAG 3	Bag 3 Non-methane organic gases	
END-SOC	System End State of Charge Watt-hours		NMOG BAG 4	Bag 4 Non-methane organic gases	
ACT-DISTANCE	Actual Distance Driven (miles)				
Certification Region					

Certification Summary Information Report

Test Group		VKMXT02.5MP3	Evaporative/Refueling Family	VKMXR0151MPG
CA		California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level				
B1	Federal Tier 2 Bin 1		T3B160	Federal Tier 3 Bin 160
B2	Federal Tier 2 Bin 2		T3B125	Federal Tier 3 Bin 125
B3	Federal Tier 2 Bin 3		T3B110	Federal Tier 3 Transitional Bin 110
B4	Federal Tier 2 Bin 4		T3B85	Federal Tier 3 Transitional Bin 85
B5	Federal Tier 2 Bin 5		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
B6	Federal Tier 2 Bin 6		T3B70	Federal Tier 3 Bin 70
B7	Federal Tier 2 Bin 7		T3B50	Federal Tier 3 Bin 50
B8	Federal Tier 2 Bin 8		T3B30	Federal Tier 3 Bin 30
B9	Federal Tier 2 Bin 9		T3B20	Federal Tier 3 Bin 20
B10	Federal Tier 2 Bin 10		T3B0	Federal Tier 3 Bin 0
B11	Federal Tier 2 Bin 11		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2	California LEV-II LEV		HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2OP	California LEV-II LEV Optional		HDV2B170	Federal Tier 3 HD Class 2b Bin 170
U2	California LEV-II ULEV		HDV2B150	Federal Tier 3 HD Class 2b Bin 150
S2	California LEV-II SULEV		HDV2B0	Federal Tier 3 HD Class 2b Bin 0
ZEV	California ZEV		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
OT	Other		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
T1	Federal Tier 1		HDV3B400	Federal Tier 3 HD Class 3 Bin 400
PZEV	California PZEV		HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L2LEV160	California LEV-II LEV160		HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L2ULEV125	California LEV-II ULEV125		HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L2SULEV30	California LEV-II SULEV30		HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2LEV395	California LEV-II LEV395		L4SULEV100	California LEV-IV SULEV100
L2ULEV340	California LEV-II ULEV340		L4SULEV125	California LEV-IV SULEV125
L2LEV630	California LEV-II LEV630		L4SULEV15	California LEV-IV SULEV15
L2ULEV570	California LEV-II ULEV570		L4SULEV150	California LEV-IV SULEV150
L3LEV160	California LEV-III LEV160		L4SULEV170	California LEV-IV SULEV170
L3ULEV125	California LEV-III ULEV125		L4SULEV175	California LEV-IV SULEV175
L3ULEV70	California LEV-III ULEV70		L4SULEV20	California LEV-IV SULEV20
L3ULEV50	California LEV-III ULEV50		L4SULEV200	California LEV-IV SULEV200
L3SULEV30	California LEV-III SULEV30		L4SULEV230	California LEV-IV SULEV230
L3SULEV20	California LEV-III SULEV20		L4SULEV25	California LEV-IV SULEV25
L3LEV395	California LEV-III LEV395		L4SULEV30	California LEV-IV SULEV30
L3ULEV340	California LEV-III ULEV340		L4SULEV75	California LEV-IV SULEV75
L3ULEV250	California LEV-III ULEV250		L4SULEV85	California LEV-IV SULEV85
L3ULEV200	California LEV-III ULEV200		L4ULEV125	California LEV-IV ULEV125

Certification Summary Information Report

Test Group		VKMXT02.5MP3	Evaporative/Refueling Family		VKMXR0151MPG
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
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		
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		

07.02 Litmus Result

2. LITMUS TEST SHEET

Reference : §600.115-11

Litmus Test of EDV

EDV	FTP(75°F)	Cold FTP (20°F)	HFET	US08	SC03
BAG1	20.3	16.1	32.8	12.6	18.7
BAG2	21.5	19.3		23.2	
BAG3	22.9	22.7			
TOTAL	21.6			19.6	

(1) Determining the City FE Method

5 Cycle City Criteria (Specific 5 cycle City FE \geq 0.96 Mpg Based City FE)	Passed
---	--------

		UNROUNDED	ADJ. ROUNDED	Examination	Decision
CITY FE	MPG BASED	17.3012	16.6	Applicable	Selected
	5-CYCLE	17.2331	17.2	Applicable	
	Ratio of 5CYCLE to 0.96 MPG-BASED		103.61		

CRITERIA : 100%

(2) Determining the Hwy FE Method

5 Cycle Highway Criteria (Specific 5 cycle HWY FE \geq 0.95 Mpg Based HWY FE)	Failed
--	--------

		UNROUNDED	ADJ. ROUNDED	Examination	Decision
HWY FE	MPG BASED	23.4426	22.3	Not Applicable	
	5-CYCLE	21.8898	21.9	Not Applicable	
	MODIFIED	21.8012	21.8	Select This	Selected
	Ratio of 5CYCLE to 0.95 MPG-BASED		98.21		

CRITERIA : 100%

VKMXT02.5MP3 - Kia Telluride- Part 1

Issued : 09-25-2025

Revised:

08.00 Emission Compliance Statement

Please refer to Common Section 08.00.

09.00 OBD System Description

The on-board diagnostic (OBD) system complies with 40 CFR 86.1806-05, 86.1806-17 per the compliance option allowing demonstration of compliance with California OBD II requirements in Title 13 California Code of Regulation 1968.2 (13 CCR 1968.2) approved on July 31, 2013.

Please refer to OBD application uploaded in EV-CIS system.

10.00 Description of Alternate-Fueled Vehicles: Not Applicable

12.00 Description of Vehicles Covered by Certificate and Test Parameters

12.01 Vehicle Parameters

Carline		102	100			101	
Model Name		Telluride X-PRO	Telluride AWD			Telluride FWD	
Vehicle Classification		LDT3					
Emission Control System Description	Type, Number and Configuration of Catalyst(s)	See Sec. 02.02					
	EGR Type	N/A					
	Air Pump Type	N/A					
	Fuel System Type	DFI, SFI					
	Intake Air Aspiration Method	Turbocharger, Charge Air Cooler					
	Other	-					
Engine Code		G4KP-AC					
Number of Valves Per Cylinder		4					
Engine Displacement (L)		2.5					
Sales Area		50-State					
Transmission and Overdrive		SA8 (Overdrive)					
SIL		N/A					
Tire		255/60R18 (Continental)	265/45R21 (Pirelli,Kumho*1)	255/50R20 (Pirelli*1,Kumho)	255/50R20 (Pirelli*1,Kumho)	235/65R18 (Kumho)	
N/V Ratios		26.2	25.9	26.2	26.2	26.2	
ETW (lb)		5250	5000	5000	4750	4750	
Elec. Dyno. Target Coefficient	A	Please refer to 12.02.01.					
	B						
	C						
Fuel Tank Volume (gal)		19.0					

*¹ Tested tire

VKMXT02.5MP3 - Kia Telluride– Part 1

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12.02.02 Engine Starting Procedures

Please refer to Common Section 12.02.02.

12.02.03 Shift Schedules

Please refer to Common Section 12.02.03.01

12.02.04 Transmission / New Technology System Test Modes

Please refer to Common Section 12.02.04.

13.00 Projected Sales

Please refer to Common Section 13.00.

14.00 Request for Certification



Ms. Kathryn Kochunas
Certification Division
Mobile Source Pollution Control
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan

Subject: Request for Certificate of Conformity for 2027 Model Year Test Group VKMXT02.5MP3/
Evaporative Family VKMXR0151MPG

Dear Ms. Kathryn Kochunas:

Kia Company requests that EPA issue a Certificate of Conformity for the test group subjected above.

All vehicles within test group mentioned above comply with the applicable regulations contained in 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85, 86 and 600. This test group also complies with California Air Resources Board, Final Regulation Order, Sections 1961.4 and 1961.3 (1962.4 and 1962.3 for zero-emission vehicles) Title 13, California Code of Regulations.

The Part 1 Application for Certification has been prepared in accordance with the standardized format recommended by EPA via its guidance document CD-14-19 (LDV/LDT/OCO/LIMO) Subject: Certification Application Reporting Guidance, dated November 24, 2014.

If you have any questions regarding the Certificate of Conformity do not hesitate to contact Stephanie Wright at swright@hatci.com or (734) 273-1904.

Sincerely,

A handwritten signature in black ink, appearing to read 'C. H. Ji'.

C. H. Ji
General Manager
Regulation & Certification Team2
Kia Company

VKMXT02.5MP3 - Kia Telluride— Part 1
Issued : 09-25-2025
Revised:



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

Subject: Request for Executive Order for 2027 Model Year Test Group VKMXT02.5MP3/ Evaporative
Family VKMXR0151MPG

Dear Ms. Robin U. Lang:

Kia Company requests that California Air Resources Board (CARB) issue an Executive Order for the test group subjected above.

All vehicles within test group mentioned above comply with the applicable regulations contained in 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85, 86 and 600. This test group also complies with California Air Resources Board, Final Regulation Order, Sections 1961.4 and 1961.3 (1962.4 and 1962.3 for zero-emission vehicles) Title 13, California Code of Regulations.

The Part 1 Application for Certification has been prepared in accordance with the standardized format recommended by EPA via its guidance document CD-14-19 (LDV/LDT/OCO/LIMO) Subject: Certification Application Reporting Guidance, dated November 24, 2014.

If you have any questions regarding the Executive Order do not hesitate to Stephanie Wright at swright@hatci.com or (734) 273-1904.

Sincerely,

C. H. Ji
General Manager
Regulation & Certification Team2
Kia Company

VKMXT02.5MP3 - Kia Telluride— Part 1
Issued : 09-25-2025
Revised :

15.00 Other Information

15.01 Certification Fee Filing Form

EPA_MVECP_v1

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 08/27/2025

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

KMX

Manufacturer Name *

Kia

Contact Name *

Jennifer Cherry

Contact Email Address *

jcherry@hatci.com

Contact Phone *

7343372259

Calendar Year complete application submitted to EPA *

2025

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2025, through December 31, 2025. The applicable fee is determined by the

VKMXT02.5MP3 - Kia Telluride– Part 1

Issued : 09-25-2025

Revised:

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

Engine Family / Evaporative Family / Test Group *

VKMXT02.5MP3

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

VKMXT02.5MP3 - Kia Telluride— Part 1

Issued : 09-25-2025

Revised:

Amount Owed

\$32,939.00

Payment Type *

Offline Wire

Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

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



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

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Issued : 09-25-2025

Revised:

15.02 Vehicle Emission Control Information (VECI) label

	KIA CORPORATION VEHICLE EMISSION CONTROL INFORMATION		
Conforms to regulations :		2027 MY	
U.S.EPA : Interim T4B30 LDT		OBD : CA II	Fuel : Gasoline
California : LEV IV SULEV30 LDT		OBD : CA II	Fuel : Gasoline
No adjustments needed.	DFI, SFI, WR-HO2S, HO2S, WU-TWC, TWC, GPF, TC, CAC		
Group : VKMXT02.5MP3 Evap. : VKMXR0151MPG		ALC	32450-2S550 

15.03 ORVR Safety Statement

Kia is using standard technology in all 2027MY vehicles ORVR systems. In accordance with EPA Guidance Letter CISC-06-06, ORVR applications will not be submitted.

15.04 New Technology System Description

Please refer to Common Section 15.04.

15.05 Engine Oil Information

Please refer to Common Section 15.05

16.00 California ARB Information

16.01 Exhaust Emission Control System (Tune-up Label)

Test Group Name	Model	Exhaust Emission Control System
VKMXT02.5MP3	Telluride X-PRO Telluride AWD Telluride FWD	DFI, SFI, WR-HO2S, HO2S, WU-TWC, TWC, GPF, TC, CAC, OBD-II

Note:

DFI	: Direct Fuel Injection
SFI	: Sequential Multipoint(Electronic) Fuel Injection
WR-HO2S	: Wide-Range Heated Oxygen Sensor
HO2S	: Heated Oxygen Sensor
WU-TWC	: Warm Up Three Way Catalyst System
TWC	: Three Way Catalyst System
GPF	: Gasoline Particulate Filter
TC	: Turbo Charger
CAC	: Charge Air Cooler
OBD-II	: On-Board Diagnostics II

16.02 Test Procedures

Please refer to Common Section 16.02.

16.03.00 Fill Pipe Access Zones Statement and Specifications

16.03.01 Fill Pipe Access Zones Statement

Please refer to Common Section 16.03.01.

16.04.00 Request for Certificate

Please refer to 14.00

16.04.01 Statement of Compliance

Please refer to Common Section 16.04.01.

16.04.02 Supplemental Data Sheet

Please refer to E-cert data

16.05.00 Emission Testing Waiver Statement

Please refer to Common Section 16.05.00.

16.06.00 Projected Sales

Please refer to Common Section 13.00.

16.07.00 OBD-II System Description

Please refer to section 09.00.

16.08.00 New Technology System Description

Please refer to Common Section 15.04.

16.09.00 Environmental Performance Label

Pursuant to CALIFORNIA ENVIRONMENTAL PERFORMANCE LABEL SPECIFICATIONS FOR 2009 AND SUBSEQUENT MODEL YEAR PASSENGER CARS, LIGHT-DUTY TRUCKS, AND MEDIUM-DUTY PASSENGER VEHICLES (adopted May 2, 2008, last amended September 2, 2015), 2012, Hyundai-Kia complies Environmental Performance Label requirement by affixing the Federal Fuel Economy and Environment Label in accordance to 40 CFR Parts 85, 86, and 600 as promulgated on July 6, 2011.

16.10.00

AECD General Statements

The vehicles contained in this test group are not equipped with a defeat device and are not equipped with alternative mapping strategies. Furthermore, all AECDs have been declared and described in the application.

As described in our application, the vehicle's transmission is not part of any AECD. However, the transmission gear is an input for the emissions control strategy, as described in that application. The ECU does not provide an output to the TCU to control emissions strategy.

When driving conditions on the road can be properly represented on the dynamometer, the transmission will perform in the same manner. However, there are some different driving conditions, such as an uphill or downhill grade, extreme heat or extreme cold conditions, heavy braking, and curved road driving conditions, which cannot be appropriately represented on the dynamometer. In these conditions where necessary to protect the transmission or to prevent an unnatural shift pattern, a different shift pattern may be executed. It is our understanding that this is commonly used throughout the industry.

The Hyundai-Kia American Technical Center and the Hyundai Motor Group Research and Development Center in Namyang, Korea have endeavored to respond based on our understanding of the regulatory definition of an AECD, the past certification reviews of AECDs conducted by ARB, existing guidance regarding AECDs issued by ARB, and, of course, EPA's and ARB's increased interest in this area. We will continue to monitor guidance issued by ARB regarding the level of information and detail desired in a certification application, and will continue to evaluate AECD issues to ensure transparency with respect to our vehicle and engine performance.

16.11.00 California warranty compliance

Please refer to Common Section 16.11.00.

16.12.00 Description of the Propulsion System: Not Applicable

16.13.00 ZEV Compliance: Not Applicable

17.00.00 Service of Process

Please refer to Common Section 01.00.