



Application for Certification - Part 1

Test Group (FOI)

- **Model Year:** 2027
- **Manufacturer Name:** Kia Corporation
- **Test Group:** VKMXV01.6NC3
- **Test Group Description:** 1.6 Liter / Turbocharged I4 GDI / Otto-cycle
- **Durability Group:** VKMXGPGNNNC3
- **Durability Group Description:** Monolith, WU-TWC + TWC
- **Vehicle Class:** LDV
- **Applicable Standards:** FED: Interim Tier-4 Bin 30 / Tier-4 Evap
CAL: LEV-IV SULEV 30 / LEV-IV Evap
- **Vehicle Tested:** EDV - SP3-U7G6TA173A / 0 (Exh.)
OS-U1G6TD127A / 0 (Evap.)
- **Carlines Covered by Certificate:** Seltos AWD
- **EPA Response Requested by:** Feb 10, 2026
- **For Questions, Contact:** Stephanie Wright
Tel: 734-273-1904
E-mail: swright@hatci.com

TABLE OF CONTENTS

Section	Contents	Application	
		Common	Test Group
01	Correspondence and Communications	x	
02	Durability Group Description		x
	02.01 List of Vehicles in Durability Groups	x	
	02.02 Catalyst Information		x
03	Evaporative/Refueling Family Description		x
	03.01 Evaporative/Refueling General Description	x	
	03.02 List of Vehicles in Evaporative Families	x	
04	Durability Test Procedure Description		
	04.01 Exhaust Durability Vehicle Test Data		x
	04.02 Evaporative/ORVR Durability Test Data		x
	04.03 Exhaust Durability Test Procedure	x	
	04.04 Evaporative Durability Test Procedure	x	
05	Test Group Description		x
06	Test Vehicle Description		x
07	Test Results		x
08	Emission Compliance Statement	x	
09	OBD System Description		x
	09.01 CARB Approval Letter		x
10	Description of Alternate-Fueled Vehicles		x
11	AECD Descriptions		x
12	Description of Vehicles Covered by Certificate and Test Parameters		
	12.01 Vehicle Parameters		x
	12.02 Test Parameters	x	x
13	Projected Sales	x	
14	Request for Certification		x
15	Other Information		
	15.01 Certification Fee Filing Form		x
	15.02 Vehicle Emission Control Information Label		x
	15.03 ORVR Safety Statement		x
	15.04 New Technology System Description	x	
	15.05 Engine Oil Information	x	
16	California ARB Information	x	x
17	Service of Process	x	
18	Attachment		x

01.00 Correspondence and Communications

Please refer to Common Section 01.00.

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

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

01-1

02.00 Durability Group Description

1. Durability group name : VKMXGPGNNNC3
2. Combustion cycle : Otto cycle / four stroke
3. Engine type : Piston / Water cooled
4. Fuel used : Gasoline
5. Basic fuel metering system : Direct 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. GPF (Gasoline Particulate Filter) : None

02.01 List of Vehicles in Durability Groups

Please refer to Common Section 02.01.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

03.00 Evaporative/Refueling Family Description

03.00.01 Evaporative/Refueling Family Name: VKMXR0125NCG (22MY Kona 1.6T C/O)

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)
125NCG	15	125	2050	Plastic	Activated carbon	13.2

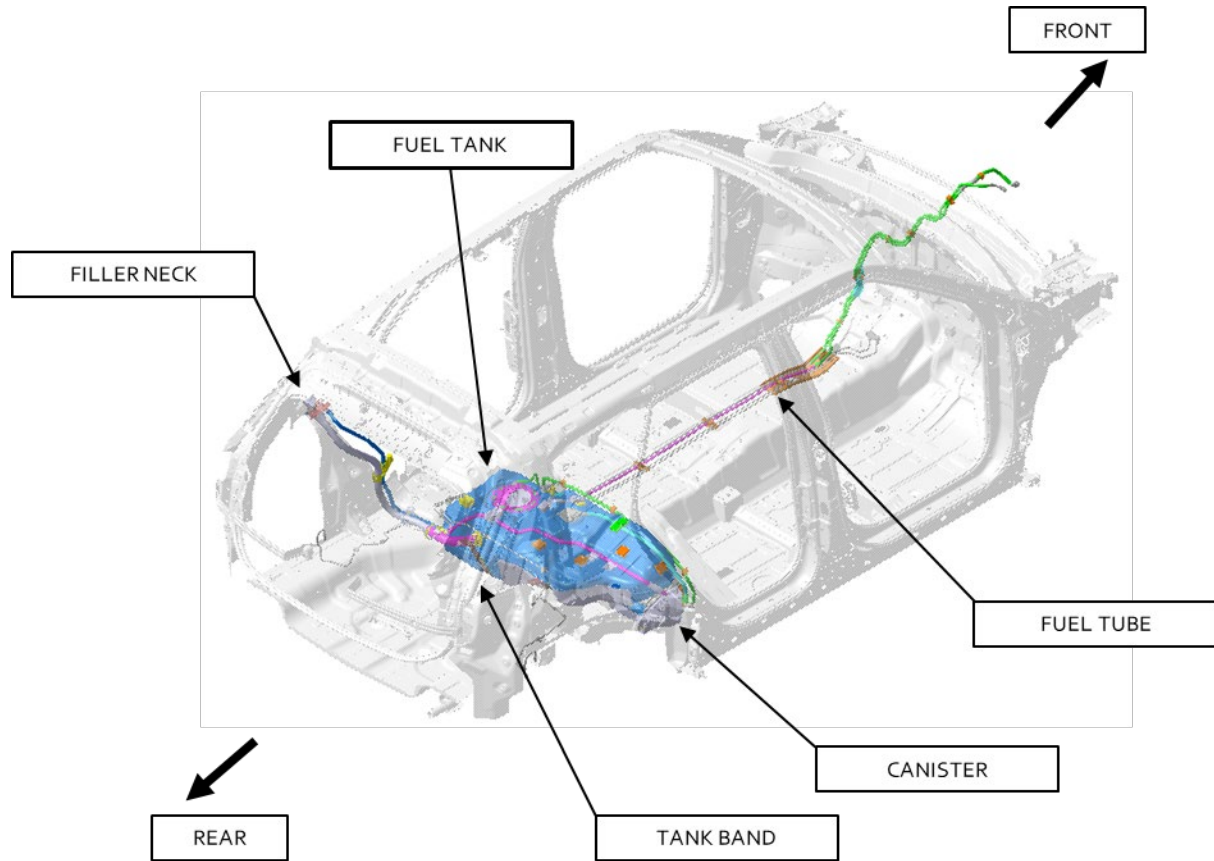
3. Fuel system: Returnless fuel system
4. Type of refueling emission control system: Integrated type
5. Fillpipe seal mechanism: Liquid seal type
6. Vapor control system or method of vapor line to the canister:
 - a. Fill Limit Vent Valve (ORVR)
 - b. Overfill limiter (2way valve)
 - c. Canister close valve
7. Purge control system
 - a. Type of valve: Duty
 - b. Purge control strategy: Controlled by ECU
 - c. High load purge system : Yes
 - d. Active purge system : No
8. Vapor hose material: Rubber
9. Fuel tank material: Plastic
10. HC-Trap
 - a. Canister Storage Medium: Carbon
 - b. Working capacity: 0.8g

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1

Issued : 01-05-2026

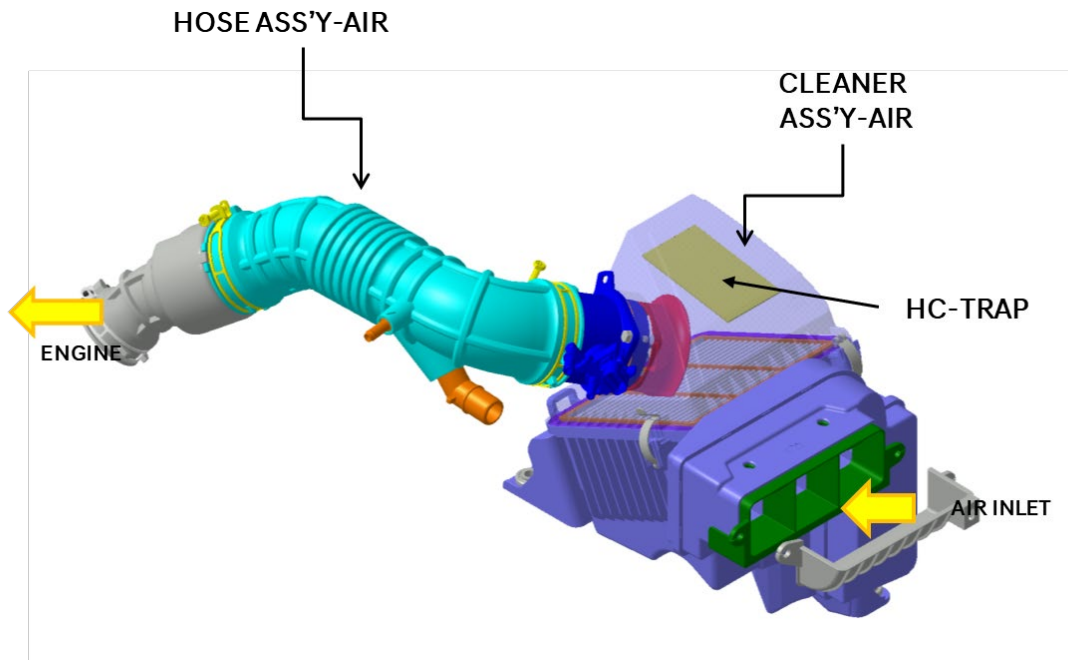
Revised:

03.00.01.02 Evaporative/Refueling Schematic



VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

03.00.01.03 HC-Trap Schematic



VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
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.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

05.00 Test Group Description

Test group name : VKMXV01.6NC3
Engine displacement (L) covered : 1.6L
Arrangement/number of cylinders : I4
Vehicle class(s) covered : LDV
Sales location/emission standard : FED: Interim Tier-4 Bin 30
CAL: LEV-IV SULEV 30
See CSI report for emission standard levels

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

05-1

06.00 Test Vehicle Description

Exhaust Durability Data Vehicle (FTP)

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.

TestVehicleInformationSubmission

TestVehicleInformationDetails

InformationProcessCode : C
EPAManufacturerCode : HYX
VehicleIdentificationText : KM8HECA34PU000113
VehicleConfigurationNumber : 0

VehicleConfigurationDetails

VehicleDescriptionDetails

ManufacturerVehicleConfigurationNumber : 0
TestGroupName : RHYXT01.6KC3
EvaporativeRefuelingFamilyName : RHYXR0125KCG
LeakFamilyIdentifier : SX2
LeakFamilyName : RHYXR0125KCG-SX2
ModelYear : 2024
ActualTestVehicleMakeText : HYUNDAI
ActualTestVehicleModelText : Kona

DriveSourceDetails

DriveSourceIdentifier : C
FuelIdentifier : G

TestDriveCode : F
ShiftIndicatorLightUsageIdentifier : 1
AgedComponentUsageIdentifier : 4

OdometerCorrectionDetails

CorrectionInitialValue : 0
CorrectionFactorValue : 1.0159
CorrectionSignIdentifier : -
CorrectionUnitsCode : M

EngineCodeText : G4FP-AC
EngineRatedHorsepowerValue : 190
EngineDisplacementValue : 1.6

AirAspirationDetails

AirAspirationMethodIdentifier : TC
AirAspirationDeviceCount : 1
AirAspirationConfigurationIdentifier : N

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

ChargeAirCoolerIdentifier : A

VehicleSpecificationsDetails

CurbWeightValue : 3483
EquivalentTestWeightValue : 3750
GrossVehicleWeightRatingValue : 4420
NVRatioValue : 28.2
AxleRatioValue : 3.51

TransmissionSpecificationsDetails

LightDutyTransmissionTypeIdentifier : SA
TransmissionLockupIndicator : Y
TransmissionCreeperGearIndicator : N
TransmissionGearCount : 8

TargetSetCoefficientDetails

TestProcedureDynamometerCoefficientsCategory : C-H-E
TargetCoefficientAValue : 26.483
TargetCoefficientBValue : 0.36425
TargetCoefficientCValue : 0.022753
SetCoefficientAValue : 3.387
SetCoefficientBValue : 0.29757
SetCoefficientCValue : 0.022216

TargetSetCoefficientDetails

TestProcedureDynamometerCoefficientsCategory : US06
TargetCoefficientAValue : 26.483
TargetCoefficientBValue : 0.36425
TargetCoefficientCValue : 0.022753
SetCoefficientAValue : 3.387
SetCoefficientBValue : 0.29757
SetCoefficientCValue : 0.022216

TargetSetCoefficientDetails

TestProcedureDynamometerCoefficientsCategory : Cold-CO
TargetCoefficientAValue : 29.131
TargetCoefficientBValue : 0.40067
TargetCoefficientCValue : 0.025029
SetCoefficientAValue : 1.925
SetCoefficientBValue : 0.01940
SetCoefficientCValue : 0.026659

ManufacturerCommentText : SX2 1.6T AWD 8AT 19in N-line ETW 3750 (DDV)

EPAGeneratedTestVehicleDetails

OriginalReceiptDate : 20230405
HybridVehicleIndicator : N
AdjustedLoadedVehicleWeightValue : 3951
LoadedVehicleWeightValue : 3783
TotalRoadLoadHorsepowerValue : 13.5

TransactionStatusDetails

TransactionStatusIdentifier : ACCEPTED

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised :

Exhaust Durability Data Vehicle (Quick Drive Away)

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 : C
EPA Manufacturer Code : HYX
Vehicle Identification Text : KM8HECA3XRU155686
Vehicle Configuration Number : 0

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0
Test Group Name : VHXYJ01.6KC3
Evaporative Refueling Family Name : VHXYR0125KCG
Leak Family Identifier : SX2
Leak Family Name : VHXYR0125KCG-SX2
Model Year : 2027
Actual Test Vehicle Make Text : HYUNDAI
Actual Test Vehicle Model Text : Kona

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 : 1.0021
Correction Sign Identifier : -
Correction Units Code : M

Engine Code Text : G4FP-AC
Engine Rated Horsepower Value : 190
Engine Displacement Value : 1.6

Air Aspiration Details

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

Charge Air Cooler Identifier : A

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

Vehicle Specifications Details

Curb Weight Value : 3461
Equivalent Test Weight Value : 3750
Gross Vehicle Weight Rating Value : 4453
NV Ratio Value : 28.2
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 : US06
Target CoefficientA Value : 26.809
Target CoefficientB Value : 0.27065
Target CoefficientC Value : 0.023501
Set CoefficientA Value : 5.068
Set CoefficientB Value : -0.04339
Set CoefficientC Value : 0.024676

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 26.809
Target CoefficientB Value : 0.27065
Target CoefficientC Value : 0.023501
Set CoefficientA Value : 5.068
Set CoefficientB Value : -0.04339
Set CoefficientC Value : 0.024676

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO
Target CoefficientA Value : 29.490
Target CoefficientB Value : 0.29772
Target CoefficientC Value : 0.025851
Set CoefficientA Value : 0.551
Set CoefficientB Value : 0.03961
Set CoefficientC Value : 0.026309

Manufacturer Comment Text : SX2 1.6T AWD 8AT 19in ETW 3750 (QDA DDV)

EPA Generated Test Vehicle Details

Original Receipt Date : 20260118
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3957
Loaded Vehicle Weight Value : 3761
Total Road Load Horsepower Value : 13.2

Transaction Status Details

Transaction Status Identifier : ACCEPTED

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised :

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 : HYX
Vehicle Identification Text : KM8HECA35TU347329
Vehicle Configuration Number : 0

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0
Test Group Name : VHYXJ01.6KC3
Evaporative Refueling Family Name : VHYXR0125KCG
Leak Family Identifier : SX2
Leak Family Name : VHYXR0125KCG-SX2
Model Year : 2027
Actual Test Vehicle Make Text : HYUNDAI
Actual Test Vehicle Model Text : Kona

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 : 1.0021
Correction Sign Identifier : -
Correction Units Code : M

Engine Code Text : G4FP-AC
Engine Rated Horsepower Value : 190
Engine Displacement Value : 1.6

Air Aspiration Details

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

Charge Air Cooler Identifier : A

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

Vehicle Specifications Details

Curb Weight Value : 3461
Equivalent Test Weight Value : 3750
Gross Vehicle Weight Rating Value : 4453
NV Ratio Value : 28.2
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 : 26.809
Target CoefficientB Value : 0.27065
Target CoefficientC Value : 0.023501
Set CoefficientA Value : 5.068
Set CoefficientB Value : -0.04339
Set CoefficientC Value : 0.024676

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 26.809
Target CoefficientB Value : 0.27065
Target CoefficientC Value : 0.023501
Set CoefficientA Value : 5.068
Set CoefficientB Value : -0.04339
Set CoefficientC Value : 0.024676

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO
Target CoefficientA Value : 29.490
Target CoefficientB Value : 0.29772
Target CoefficientC Value : 0.025851
Set CoefficientA Value : 0.551
Set CoefficientB Value : 0.03961
Set CoefficientC Value : 0.026309

Manufacturer Comment Text : SX2 1.6T AWD 8AT 19in ETW 3750 (QDA DDV)

EPA Generated Test Vehicle Details

Original Receipt Date : 20260119
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3957
Loaded Vehicle Weight Value : 3761
Total Road Load Horsepower Value : 13.2

Transaction Status Details

Transaction Status Identifier : ACCEPTED

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised :

Exhaust & Evaporative Emission Data Vehicle

Please refer to CSI report in 07.00.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

06-7

07.00 Test Results

07.01 EV-CIS Certification Summary Information

Certification Summary Information Report submitted to EV-CIS.

1. See 18.00.00.

07.02 Litmus Test Sheet

Litmus Test of EDV

EDV	FTP(75°F)	Cold FTP (20°F)	HFET	US06	SC03
BAG1	29.5	21.0	43.3	17.1	21.5
BAG2	29.6	27.1		31.1	
BAG3	31.7	29.7			
TOTAL	30.2			26.3	

(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	23.5267	22.6	Applicable	Selected
	5-CYCLE	23.1771	23.2	Applicable	
	Ratio of 5CYCLE to 0.96 MPG-BASED		102.65		

CRITERIA : 100%

(2) Determining the Hwy FE Method

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

		UNROUNDED	ADJ. ROUNDED	Examination	Decision
HWY FE	MPG BASED	30.2233	28.7	Select This	Selected
	5-CYCLE	28.9397	28.9	Not Applicable	
	MODIFIED	29.1219	29.1	Not Applicable	
	Ratio of 5CYCLE to 0.95 MPG-BASED		100.70		

CRITERIA : 100%

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
 Issued : 01-05-2026
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08.00 Emission Compliance Statement

Please refer to Common Section 08.00.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
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Revised:

08-1

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 the OBD application uploaded in the EV-CIS system.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

09-1

10.00 Description of Alternate-Fueled Vehicles: Not Applicable

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
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12.00 Description of Vehicles Covered by Certificate and Test Parameters

12.01 Vehicle Parameters

Carline		800
Model name		Seltos AWD
Vehicle classification		LDV
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
	Intake air aspiration method	Turbocharger, Charge Air Cooler
	Other	-
Engine code		G4FP-AC
Number of valves per cylinder		4
Engine displacement (L)		1.6
Sales area		50-State
Transmission and overdrive		SA8 (Overdrive)
SIL		N/A
Tire size		235/45R19 (KUMHO)
N/V ratios		29.3
ETW(lb)		4000
Elec. dyno. target coefficient	A	Please refer to 12.02.01.
	B	
	C	
Fuel tank volume(gal)		13.2

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
 Issued : 01-05-2026
 Revised:

12.02.02 Engine Starting Procedures

Please refer to Common Section 12.02.02.

12.02.03 Shift Schedules

Automatic transmission: Please refer to Common Section 12.02.03.01

12.02.04 Transmission / Advanced Technology System Test Modes

Please refer to Common Section 12.02.04

13.00 Projected Sales

Please refer to Common Section 13.00.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
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Revised :

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 VKMXV01.6NC3 /
Evaporative Family VKMXR0125NCG

Dear Ms. Kathryn Kochunas:

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

All vehicles within the 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 the 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', written over a horizontal line.

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

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:



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

Subject: Request for an Executive Order for 2027 Model Year Test Group VKMXV01.6NC3
/ Evaporative Family VKMXR0125NCG

Dear Ms. Robin U. Lang:

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

All vehicles within the 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 the 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 contact Stephanie Wright at swright@hatci.com or (734) 273-1904.

Sincerely,

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


VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

15.00 Other Information

15.01 Certification Fee Filing Form

15.02

Vehicle Emission Control Information (VECI) Label

	KIA CORPORATION VEHICLE EMISSION CONTROL INFORMATION	
Conforms to regulations : 2027 MY		
U.S.EPA : Interim T4B30 LDV OBD : CA II Fuel : Gasoline		
California : LEV IV SULEV30 PC OBD : CA II Fuel : Gasoline		
No adjustments needed.		DFI, WR-HO2S, HO2S, WU-TWC, TWC, TC, CAC
Group : VKMXV01.6NC3 Evap. : VKMXR0125NCG	P-5	32450-2MSP1

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1

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15.03 ORVR Safety Statement

Kia uses standard technology in all ORVR systems for 2027 model year vehicles. In accordance with EPA Guidance Letter C1SD-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
VKMXV01.6NC3	Seltos AWD	DFI, WR-HO2S, HO2S, WU-TWC, TWC, TC, CAC, OBD II

Note:

- DFI : Direct 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
- TC : Turbocharger
- 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.

6.04.01 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 Advanced 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.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

16.12.00

Description of the Propulsion System: Not Applicable

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

16.13.00

ZEV Compliance: Not Applicable

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

16-10

17.00.00 Service of Process

Please refer to Common Section 01.00.

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

18.00.00 Attachment

1. CSI Report

VKMXV01.6NC3 - Kia Seltos 1.6L - Part 1
Issued : 01-05-2026
Revised:

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	01/09/2026 02:08:36 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE				
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)	125	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				
VKMXR0125NCG-SP3	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	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Kia Corporation	1 - KIA	800 - Seltos AWD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
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 0W20				
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	N				

Certification Summary Information Report

Test Group	VKMXV01.6NC3				Evaporative/Refueling Family	VKMXR0125NCG					
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal			Substrate Material	Substrate Construction					
1	Three-way catalyst	Platinum + Palladium + Rhodium			Ceramic	Monolith					
2	Three-way catalyst	Platinum + Rhodium			Ceramic	Monolith					
Mfr After Treatment Device (ATD) Comments											
--											
Direct Ozone Reduction (DOR) Device											
Not Equipped											
Mfr Emission Control Device Comments											
--											
Engine Configuration Number 1											
Engine Displacement (liters)		1.6			Engine Rated Horsepower		190				
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		VVT									
Variable Valve Lift?		No									
Variable Valve Lift System Description		--									
Number of Knock Sensors		1			Number of Air/Fuel Sensors		2				
Air/Fuel Sensor # 1 Type		Heated oxygen			Air/Fuel Sensor # 1 Description		--				
Air/Fuel Sensor # 2 Type		Other			Air/Fuel Sensor # 2 Description		WR-HO2S				
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		--			Air Injection Type if 'Other'		--				
Mfr Engine Configuration Comments		--									
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		VKMX91006678	VKMX91006679	VKMX91006686	VKMX10092436	VKMX91006680	61.7	22.7	113.4	28.9	--

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	VKMX91006678	VKMX91006679	VKMX91006686

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
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Emission Data Vehicle Information

Vehicle ID / Configuration	OS-U1G6TD127A / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	NHYXV01.6KC5	Original Evaporative/Refueling Family	NHYXR0125KCG
Original Test Vehicle Model Year	2022		

Vehicle Model

Represented Test Vehicle Make	Hyundai	Represented Test Vehicle Model	Kona
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Leak Family Details

Leak Family Identifier	OS1	Leak Family Name	NHYXR0125KCG-OS1
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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 Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	1.0086
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	G4FP-AMC	Rated Horsepower	195
Displacement (liters)	1.6	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Turbocharged	Air Aspiration Device Configuration	Single
Number of Air Aspiration Devices	1	Drive Mode While Testing	2-Wheel Drive, Front
Charge Air Cooler Type	Air	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	3625
Curb Weight (lbs)	3287	N/V Ratio	30.1
GVWR (lbs)	4222		
Axle Ratio	3.17		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7
Transmission Lockup	No	Creeper 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	35.563	0.24355	0.021968	13.884	0.21465	0.02112	13.7

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
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Emission Control Device Comments --
Manufacturer Test Vehicle Comments OS 1.6 AWD 7DCT 18in (Evap EDV)

Test #	NHYX10067019	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	NHYX10067016	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/16/2020	Fuel	Gasoline
Fuel Batch ID	20E-01	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	4233	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1779	--

Manufacturer Test Comments 22MY OS 1.6T 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	0.1779	0	0.178	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1779	0	0.178	0.300	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	NHYX91004667	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	NHYX91004666	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	11/17/2020	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	4389	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.209437	--

Manufacturer Test Comments Hot_Soak_HC_(g) = 0.015076, Diurnal (gHC) = 0.194361

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	0.2094	0	0.209	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2094	0	0.209	0.300	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	NHYX10067020	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	NHYX10067018	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/21/2020	Fuel	Gasoline
Fuel Batch ID	20T-01	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	4167	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0061	--

Manufacturer Test Comments 22MY OS 1.6T 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	0.006	0	0.01	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.006	0	0.01	0.20	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	NHYX10067022	Test Procedure	37 - California Fuel Running Loss
Exhaust Test # for this Evap Test	NHYX10067016	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/16/2020	Fuel	Gasoline
Fuel Batch ID	20E-01	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	4233	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

Manufacturer Test Comments 22MY OS 1.6T 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	0.01	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	NHYX10067023	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/13/2020	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	4110	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.0052	--

Manufacturer Test Comments 22MY OS 1.6T Bleed test

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	0.0052	0	0.005	0.020	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0052	0	0.005	0.020	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	NHYX10067024	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	08/24/2020	Fuel	Gasoline
Fuel Batch ID	20T-01	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	4168	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

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

Manufacturer Test Comments 22MY OS 1.6T 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	0.0000	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	NHYX10067025	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	08/24/2020	Fuel	Gasoline
Fuel Batch ID	20T-01	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	4168	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

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

Manufacturer Test Comments 22MY OS 1.6T 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	0.0000	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG						
Emission Data Vehicle Information									
Vehicle ID / Configuration	SP3-U7G6TA173A / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VKMXV01.6NC3	Original Evaporative/Refueling Family	VKMXR0125NCG						
Original Test Vehicle Model Year	2027								
Vehicle Model									
Represented Test Vehicle Make	KIA	Represented Test Vehicle Model	Seltos						
Leak Family Details									
Leak Family Identifier	SP3	Leak Family Name	VKMXR0125NCG-SP3						
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	1.0087						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	G4FP-AC	Rated Horsepower	190						
Displacement (liters)	1.6								
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)	3682	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4674	N/V Ratio	29.3						
Axle Ratio	3.65								
Transmission Type	Semi-Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creeper Gear	No						

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
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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	30.882	0.28494	0.023347	15.273	0.05672	0.024057	13.8
Cold CO	33.97	0.31343	0.025682	7.197	0.24878	0.024283	N/A
US06	30.882	0.28494	0.023347	15.273	0.05672	0.024057	N/A

Emission Control Device Comments

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Manufacturer Test Vehicle Comments

27MY SP3 1.6T AWD AT 19inch

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX10092436	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/04/2025	Fuel	Gasoline
Fuel Batch ID	25D-02	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	772-1, Jangduck-Dong		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4205	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	408.623	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.0456	--	
FE BAG 1 (Bag 1 Fuel Economy)	20.9799	20.9799	
CH4 BAG 1 (Bag 1 Methane)	0.0232	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.159	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	317.7397	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0136	--	
FE BAG 2 (Bag 2 Fuel Economy)	27.1237	27.1237	
CH4 BAG 2 (Bag 2 Methane)	0.0035	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	289.8446	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0809	--	
FE BAG 3 (Bag 3 Fuel Economy)	29.7313	29.7313	
CH4 BAG 3 (Bag 3 Methane)	0.0032	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
METHANE (CH4 - Methane)	0.0075	--	
CO (Carbon Monoxide)	0.246	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.11	--	
DT-EER (Drive Trace Energy Economy Rating)	0.32	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.88	--	
MFR FE (Manufacturer Fuel Economy)	26.1787	26.1787	
NOX (Nitrogen Oxide)	0.0028	--	
HC-NM (Non-methane Hydrocarbon)	0.0299	--	
NMOG (Non-methane organic gases)	0.033	--	
HC-TOTAL (Total Hydrocarbon)	0.0367	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	328.9125	--	

Manufacturer Test Comments

27MY SP3 1.6T 19in ETW 4000 (EDV) E10-20F

Certification Summary Information Report

Test Group		VKMXV01.6NC3				Evaporative/Refueling Family				VKMXR0125NCG		
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	0.25	--	--	--	0.01	--	0.3	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.03	--	--	--	0.0028	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-IV SULEV30	CO	0.25	--	--	--	0.01	--	0.3	10.0	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX10092437	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	08/30/2025	Fuel	Gasoline
Fuel Batch ID	25T-03	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	772-1, Jangduck-Dong		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4138	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)	0.002	--
CO (Carbon Monoxide)	0.0894	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.29	--
DT-EER (Drive Trace Energy Economy Rating)	-0.49	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.02	--
MFR FE (Manufacturer Fuel Economy)	29.4255	29.4255
NOX (Nitrogen Oxide)	0.0015	--
HC-NM (Non-methane Hydrocarbon)	0.0085	--
NMOG (Non-methane organic gases)	0.01	--
HC-TOTAL (Total Hydrocarbon)	0.0102	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	295.3135	--

Manufacturer Test Comments

27MY SP3 1.6T 19in ETW 4000 (EDV) E10-50F

Certification Summary Information Report

Test Group		VKMXV01.6NC3				Evaporative/Refueling Family				VKMXR0125NCG		
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	0.09	--	--	--	0	--	0.1	1.0	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG	0.0100	--	1.10	--	0	--	0.010	99.999	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0115	--	1.10	--	--	--	0.012	0.060	Pass
CA	4,000 miles	California LEV-IV SULEV30	NOX	0.0015	--	--	--	0	--	0.002	99.999	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX10092438	Test Procedure	49 - Quick-Driveway (QD)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/21/2025	Fuel	Gasoline
Fuel Batch ID	25T-03	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	772-1, Jangduck-Dong		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4298	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)	0.003	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.13	--
DT-EER (Drive Trace Energy Economy Rating)	0.01	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.26	--
NOX (Nitrogen Oxide)	0.0027	--
HC-NM (Non-methane Hydrocarbon)	0.007	--
NMOG (Non-methane organic gases)	0.0077	--

Manufacturer Test Comments 27MY SP3 1.6T 19in ETW 4000 (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	0.0077	--	1.10	--	0.0077	--	0.015	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0104	--	--	--	--	--	0.024	0.042	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0027	--	--	--	0.0062	--	0.009	99.999	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX91006672	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/02/2025	Fuel	Gasoline
Fuel Batch ID	29351	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4608	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	306.8477478	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.394424	--
	FE BAG 1 (Bag 1 Fuel Economy)	28.9756737	--
	CH4 BAG 1 (Bag 1 Methane)	0.0060531	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0327116	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	297.306488	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--
	FE BAG 2 (Bag 2 Fuel Economy)	29.9762058	--
	CH4 BAG 2 (Bag 2 Methane)	0.0041633	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001217	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	274.1661072	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0385846	--
	FE BAG 3 (Bag 3 Fuel Economy)	32.4997635	--
	CH4 BAG 3 (Bag 3 Methane)	0.0018931	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0002615	--
	METHANE (CH4 - Methane)	0.0039309	--
	CO (Carbon Monoxide)	0.0922852	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4672686	--
	DT-EER (Drive Trace Energy Economy Rating)	0.4703347	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.2773718	--
	MFR FE (Manufacturer Fuel Economy)	30.4075165	--
	NOX (Nitrogen Oxide)	0.0022977	--
	N2O (Nitrous Oxide)	0.0008824	--
	HC-NM (Non-methane Hydrocarbon)	0.0066436	--
	NMOG (Non-methane organic gases)	0.0069093	--
	HC-TOTAL (Total Hydrocarbon)	0.0105195	--
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
	Carbon-Related Exhaust Emissions	9999.9999999	293
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	292.9241943	--
Manufacturer Test Comments	None		

Certification Summary Information Report

Test Group		VKMXV01.6NC3				Evaporative/Refueling Family				VKMXR0125NCG		
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	293	--	--	--	0.050475	--	293	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0039	--	--	--	0.0012	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0009	--	--	--	0.0042	--	0.005	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.09	--	--	--	0.03	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0069	--	1.10	--	0.0036	--	0.010	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0092	--	1.10	--	--	--	0.017	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0023	--	--	--	0.0042	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.09	--	--	--	0.03	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0069	--	1.10	--	0.0036	--	0.010	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0092	--	1.10	--	--	--	0.017	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0023	--	--	--	0.0042	--	0.006	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX91006678	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	12/12/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4670	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	295.5541687	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.2211648	--
	FE BAG 1 (Bag 1 Fuel Economy)	999	--
	CH4 BAG 1 (Bag 1 Methane)	0.0052948	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0246935	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	296.2224121	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0001969	--
	FE BAG 2 (Bag 2 Fuel Economy)	999	--
	CH4 BAG 2 (Bag 2 Methane)	0.0043019	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0000491	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	275.6405334	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0650633	--
	FE BAG 3 (Bag 3 Fuel Economy)	999	--
	CH4 BAG 3 (Bag 3 Methane)	0.0023254	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0002513	--
	METHANE (CH4 - Methane)	0.0039654	--
	CO (Carbon Monoxide)	0.0637059	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.5129075	--
	DT-EER (Drive Trace Energy Economy Rating)	0.4180242	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.5587915	--
	MFR FE (Manufacturer Fuel Economy)	999	--
	NOX (Nitrogen Oxide)	0.0017633	--
	N2O (Nitrous Oxide)	0.0009853	--
	HC-NM (Non-methane Hydrocarbon)	0.0047326	--
	NMOG (Non-methane organic gases)	0.0051971	--
	PM (Particulate Matter)	0.0001782	--
	HC-TOTAL (Total Hydrocarbon)	0.0086425	--
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
	Carbon-Related Exhaust Emissions	9999.9999999	290
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	290.4407043	--

Manufacturer Test Comments

None Unrounded Result for the following test results were modified by Verify: FE BAG 1, FE BAG 2, MFR FE, FE BAG 3

Certification Summary Information Report

Test Group		VKMXV01.6NC3			Evaporative/Refueling Family					VKMXR0125NCG		
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	290	--	--	--	0.050475	--	290	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0040	--	--	--	0.0012	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0010	--	--	--	0.0042	--	0.005	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.06	--	--	--	0.03	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.19	--	--	--	0	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0052	--	1.10	--	0.0036	--	0.009	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0070	--	1.10	--	--	--	0.015	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0155	--	--	--	0	--	0.016	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0018	--	--	--	0.0042	--	0.006	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0002	--	--	--	0.0000	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.06	--	--	--	0.03	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0052	--	1.10	--	0.0036	--	0.009	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0070	--	1.10	--	--	--	0.015	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0018	--	--	--	0.0042	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0002	--	--	--	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX91006673	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/02/2025	Fuel	Gasoline
Fuel Batch ID	29351	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4619	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)	0.0006248	--
CO (Carbon Monoxide)	0.0228202	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	7.6051731	--
DT-EER (Drive Trace Energy Economy Rating)	0.1261955	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	9.5977602	--
MFR FE (Manufacturer Fuel Economy)	43.327713	--
NOX (Nitrogen Oxide)	0.0007193	--
N2O (Nitrous Oxide)	0.0002337	--
HC-NM (Non-methane Hydrocarbon)	0.0003798	--
NMOG (Non-methane organic gases)	0.000395	--
HC-TOTAL (Total Hydrocarbon)	0.0009959	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	206

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	205.6612549	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		VKMXV01.6NC3				Evaporative/Refueling Family				VKMXR0125NCG		
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	206	--	--	--	0.050475	--	206	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0004	--	1.03	--	0.0036	--	0.004	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0011	--	1.03	--	--	--	0.009	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0007	--	--	--	0.0042	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0004	--	1.03	--	0.0036	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0011	--	1.03	--	--	--	0.009	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0007	--	--	--	0.0042	--	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX91006680	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	12/12/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4681	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	--
CO (Carbon Monoxide)	0.0289107	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.8649471	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2849992	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.955749	--
MFR FE (Manufacturer Fuel Economy)	42.9716377	--
NOX (Nitrogen Oxide)	0.0008282	--
N2O (Nitrous Oxide)	0.0002576	--
HC-NM (Non-methane Hydrocarbon)	0.0009136	--
NMOG (Non-methane organic gases)	0.000941	--
HC-TOTAL (Total Hydrocarbon)	0.0009136	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	202

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	202.4343719	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		VKMXV01.6NC3				Evaporative/Refueling Family				VKMXR0125NCG		
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	202	--	--	--	0.050475	--	202	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0009	--	1.03	--	0.0036	--	0.004	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0017	--	1.03	--	--	--	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0008	--	--	--	0.0042	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0009	--	1.03	--	0.0036	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0017	--	1.03	--	--	--	0.010	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0008	--	--	--	0.0042	--	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX91006679	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	12/12/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4701	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	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
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Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	510.8681335	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.2355487	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CH4 BAG 1 (Bag 1 Methane)	0.0061119	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0095149	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	281.1633301	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.2693517	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CH4 BAG 2 (Bag 2 Methane)	0.002063	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0062369	--
METHANE (CH4 - Methane)	0.0029667	--
CO (Carbon Monoxide)	0.2618077	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-4.5060558	--
DT-EER (Drive Trace Energy Economy Rating)	-2.450402	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.2705259	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0087608	--
N2O (Nitrous Oxide)	0.0010203	--
HC-NM (Non-methane Hydrocarbon)	0.0067655	--
NMOG (Non-methane organic gases)	0.0069685	--
PM (Particulate Matter)	0.000286	--
HC-TOTAL (Total Hydrocarbon)	0.0096906	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	332.4279785	--

Manufacturer Test Comments

None Unrounded Result for the following test results were modified by Verify: FE BAG 1, FE BAG 2, MFR FE

Certification Summary Information Report

Test Group		VKMXV01.6NC3				Evaporative/Refueling Family				VKMXR0125NCG		
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	0.2618	--	--	--	0.03	--	0.292	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0070	--	1.03	--	0.0036	--	0.011	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0088	--	--	--	0.0042	--	0.013	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0.0000	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.26	--	--	--	0.03	--	0.3	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0070	--	1.03	--	0.0036	--	0.011	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0158	--	--	--	--	--	0.024	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0088	--	--	--	0.0042	--	0.013	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0003	--	--	--	0.0000	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Test #	VKMX91006686	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	12/31/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4767	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)	0.002845	--
CO (Carbon Monoxide)	0.1706736	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0031204	--
DT-EER (Drive Trace Energy Economy Rating)	0.723124	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.1693396	--
MFR FE (Manufacturer Fuel Economy)	21.3711452	--
NOX (Nitrogen Oxide)	0.00221	--
N2O (Nitrous Oxide)	0.0002284	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0023821	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	406.8626709	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		VKMXV01.6NC3				Evaporative/Refueling Family				VKMXR0125NCG		
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	0.1707	--	--	--	0.03	--	0.201	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	1.03	--	0.0036	--	0.004	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0022	--	--	--	0.0042	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.17	--	--	--	0.03	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0000	--	1.03	--	0.0036	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0022	--	--	--	--	--	0.010	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0022	--	--	--	0.0042	--	0.006	99.999	Pass

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Fuel Properties			
Fuel Batch ID	20T-01	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/10/2019
Fuel Batch Calibration Effective Date	08/20/2020	Fuel Batch Calibration Ineffective Date	08/20/2023
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17914
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--
Fuel Batch ID	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	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	29351	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	05/03/2023
Fuel Batch Calibration Effective Date	05/03/2023	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18439
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	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	25T-03	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	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	0.743
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)	41.495	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	20E-01	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	01/18/2020
Fuel Batch Calibration Effective Date	08/20/2020	Fuel Batch Calibration Ineffective Date	08/20/2023
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.748
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17960
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Fuel Batch ID	25D-02	Fuel Calibration Number	1
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

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
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Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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	--	--	--	--	--	--	0.03	1.0
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	99.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.001

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 30
Fuel	Gasoline	Test Procedure	CVS 75 and later (w/o 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	--	--	--	--	--	--	0.050475	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0012	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0042	0.010
150,000 miles	CO	--	--	--	--	--	--	0.03	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	HC-NM+NOX-COMP	--	--	--	--	--	--	0	0.030
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	99.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Certification Summary Information Report

Test Group		VKMXV01.6NC3			Evaporative/Refueling Family			VKMXR0125NCG		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	0.0036	99.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0	1.0	
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008	
4,000 miles	NMOG	--	--	1.10	--	--	--	0	99.999	
4,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0	0.060	
4,000 miles	NOX	--	--	--	--	--	--	0	99.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV30		
Fuel		Gasoline			Test Procedure			Quick-Driveway (QD)		
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	--	--	1.10	--	--	--	0.0077	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.042	
150,000 miles	NOX	--	--	--	--	--	--	0.0062	99.999	

Certification Summary Information Report

Test Group		VKMXV01.6NC3			Evaporative/Refueling Family			VKMXR0125NCG	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.050475	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0012	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0042	0.010
150,000 miles	CO	--	--	--	--	--	--	0.03	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	99.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.03	1.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999

Certification Summary Information Report

Test Group		VKMXV01.6NC3			Evaporative/Refueling Family			VKMXR0125NCG		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.03	99.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	99.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999	
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.03	99.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	99.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.050475	999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	99.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999	

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	California LEV-IV SULEV30
Fuel	Gasoline	Test Procedure	CVS 75 and later (w/o 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	--	--	--	--	--	--	0.03	1.0
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	99.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.001

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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	--	--	--	--	--	--	0.03	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0042	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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	--	--	--	--	--	--	0.01	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0028	0.3

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG						
Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert						
Vehicle Class	LDV/Passenger Car	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	--	--	--	--	--	--	0.01	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family	VKMXR0125NCG	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

Evaporative/Refueling Family	VKMXR0125NCG	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	VKMXR0125NCG	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	--	0.300	0

Evaporative/Refueling Family	VKMXR0125NCG	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG		
Evaporative/Refueling Family	VKMXR0125NCG	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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
Evaporative/Refueling Family	VKMXR0125NCG	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	California Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.01	0
Evaporative/Refueling Family	VKMXR0125NCG	Cert Region	Federal Federal Tier 3 Evap		
Cert/In-Use Code	Cert	Standard Level			
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	VKMXR0125NCG	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	California fuel 2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
Evaporative/Refueling Family	VKMXR0125NCG	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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	VKMXV01.6NC3		Evaporative/Refueling Family	VKMXR0125NCG	
Evaporative/Refueling Family	VKMXR0125NCG		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	VKMXR0125NCG		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	VKMXR0125NCG		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	VKMXR0125NCG		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	VKMXR0125NCG		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	--	0.300	0

Certification Summary Information Report

Test Group	VKMXV01.6NC3	Evaporative/Refueling Family	VKMXR0125NCG
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	VKMXV01.6NC3	Evaporative/Refueling Family		VKMXR0125NCG
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		VKM XV01.6NC3	Evaporative/Refueling Family		VKM XR0125NCG
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	