



Application for Certification - Part 1

Test Group (CBI)

- **Model Year:** 2027
- **Manufacturer Name:** Kia Corporation
- **Test Group:** VKMXT00.0700
- **Test Group Description:** Battery Electric Vehicle
- **Durability Group:** VKMXEEENN700
- **Durability Group Description:** N/A
- **Vehicle Class:** LDT2
- **Applicable Standards:** FED: Tier-4 Bin 0
- **Vehicles Tested:** SW1-U7ESER630F/0
- **Carlines Covered by Certificate:** PV5
- **EPA Response Requested by:** July 3, 2026
- **For Questions, Contact:** Stephanie Wright
Tel: 734-273-1904
E-mail: swright@hatci.com

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01.00 Correspondence and Communications

Please refer to Common Section 01.00.

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

02.00 Durability Group Description

1. Durability Group Name : VKMXEEENN700
2. Engine Type : Motor
3. Fuel Used : Electricity
4. Battery Capacity(s) : 177 Ah
5. Battery Chemistry(s) : NCM*¹
6. Battery Duty Cycle Usage(s) : 15 years / 300,000 km
7. Battery Manufacturer : CATL
8. Battery Construction : 6Blocks (with 18cells, 108cells in total), Cell to Pack type
9. Battery Self-Discharge Information : <10% @SOC40%, RT for 6 months
10. Description of the Thermal Management System : Active liquid cooled
11. Battery Disposal Plan : See Common Section 02.00

(Note) *¹ : Nickel Cobalt Manganese

02.01 List of Vehicles in Durability Groups

Please refer to Common Section 02.01.

02.02 Catalyst Information : Not Applicable

03.00 Evaporative/Refueling Family Description: Not Applicable

04.00 Durability Procedure Description: Not Applicable

05.00 Test Group Description

Test Group Name : VKMXT00.0700

Vehicle Class(s) Covered : FED – LDT2

Sales Location/Emission Standard : FED – Tier-4 Bin 0
See CSI report for emission standard levels

06.00 Test Vehicle Description

Durability Data Vehicle: Not Applicable

Emission Data Vehicle: Please refer to CSI report in 07.00

VKMXT00.0700 – Kia PV5 – Part 1

Issued : 06-02-2026

Revised:

:

07.00 Test Results

07.01 EV-CIS Certification Summary Information

Certification Summary Information Report submitted to EV-CIS.

See 17.00.00

VKMXT00.0700 – Kia PV5 – Part 1

Issued : 06-02-2026

Revised:

:

08.00 Emission Compliance Statement: Not Applicable

09.00 OBD System Description

Battery electric vehicles are exempt from OBD requirements because they do not use emission control systems and/or components.

10.00 Description of Alternate-Fueled Vehicles: Not Applicable

11.00 AECD Description: Not Applicable

12.00 Description of Vehicles Covered by Certificate and Test Parameters

12.01 Vehicle Parameters

Carline		530
Model Name		PV5
Vehicle Classification		LDT2
Emission Control System Description		N/A
Engine Code (Motor)		HC5E
Number of Valves Per Cylinder		N/A
Engine Displacement (L)		N/A
Sales Area		CANADA
Transmission and Overdrive		Fixed Single Speed
SIL		N/A
Tire Size		215/65R16 (Kumho)
N/V Ratios		155.8
ETW(lb)		4500
Elec. Dyno. Target Coefficient	A	Please refer to 12.02.01.
	B	
	C	
Motor	Type	PMSM*1
	Max. Power (kW)	120 (Front motor)
Battery	Type	Lithium ion
	Rated Voltage (V)	402
	Weight (kg)	386.4

(Note) *1 : Permanent Magnet Synchronous Motor

VKMXT00.0700 – Kia PV5 – Part 1

Issued : 06-02-2026

Revised:

12.02.02 Engine Starting Procedures

Please refer to Common Section 12.02.02.

12.02.03 Shift Schedules: Not Applicable

12.02.04 Transmission / Advanced Technology System Test Modes

Please refer to Common Section 12.02.04.

12.02.05 Running Loss Fuel Tank Temperature Profile: Not Applicable

13.00 Projected Sales

Please refer to Common Section 13.00.

14.00 Request for Certification



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

Subject: Request for Certificate of Conformity for 2027 Model Year Test Group
VKMXT00.0700 / Evaporative Family N/A

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.

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 "Ji H. Ji", written over a horizontal line.

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

VKMXT00.0700 – Kia PV5 – Part 1
Issued : 06-02-2026
Revised :

15.00 Other Information

15.01 Certification Fee Filing Form

15.02 Vehicle Emission Control Information (VECI) Label

This Test Group is for Canada only.

15.03 ORVR Safety Statement: Not Applicable

15.04 New Technology System Description

Please refer to Common Section 15.04.

15.05 Engine Oil Information : Not Applicable

16.00.00 Service of Process

Please refer to Common Section 17.00.00.

17.00.00 Attachment

1. CSI Report

Certification Summary Information Report

Manufacturer	Kia Corporation	Manufacturer Code	KMX
Test Group	VKMXT00.0700	Evaporative/Refueling Family	--
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/29/2026 01:57:55 AM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDT2
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	--	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VKMXXEENN700	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VKMXT00.0700
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Battery Electric Vehicle is exempted from OBD compliance.		
Mfr Test Group Comments	This Test Group is for Canada only		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VKMXT00.0700	Evaporative/Refueling Family	--							
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	530 - PV5	Federal	2-Wheel Drive, Front	Automatic	1	No			
Engine Description										
Hybrid Type	--	Hybrid Description	--							
Engine Type	--	Mfr Engine Description	--							
Engine Block Arrangement	--	Mfr Engine Block Arrangement Description	--							
Camless Valvetrain Indicator	--	Oil Viscosity/Classification	--							
Number of Cylinders/Rotors	--	Mechanically Variable Compression Ratio Indicator	--							
After Treatment Device(s) (ATD)										
Mfr After Treatment Device (ATD) Comments	--									
Direct Ozone Reduction (DOR) Device	--									
Mfr Emission Control Device 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
Electricity	--	--	--	--	--	--	--	--	--	--
Hybrid Electric Vehicle And Fuel Cell Information										
Rechargable Energy Storage System	Battery(s)	Rechargable Energy Storage System, if Other	--							
Battery Type	Lithium Ion	Number of Battery Packs	1							
Total Voltage of Battery Packs	402	Battery Energy Capacity	177							
Battery Specific Energy	184.2	Battery Charger Type	Both							
Number of Capacitors	--	Capacitor Rating (In Farads)	--							
Mfr Capacitor Comments	--									
Hydraulic System Description	--									
Regenerative Braking Type	Electrical Regen Brake	Driver Controlled Regenerative Braking	Yes							
Regenerative Braking Source	Front Wheels									
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	1	Rated Motor/Generator Power	120							
Motor/Generator Type 1	PMSM									
Mfr Fuel Cell Description	--									
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--							
Mfr Hybrid Electric/ Electric Vehicle Comments	PMSM : Permanent Magnet Synchronous Motor									

Certification Summary Information Report

Test Group	VKMXT00.0700	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	SW1-U7ESER630F / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	VKMXT00.0700	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	KIA	Represented Test Vehicle Model	PV5					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes					
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	Yes							
Odometer Correction -- Initial	7	Odometer Correction Factor	1					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	HC5E	Rated Horsepower	215					
Displacement (liters)	0.001							
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)	4233	Equivalent Test Weight (pounds)	4500					
GVWR (lbs)	5842	N/V Ratio	155.8					
Axle Ratio	4.58							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	25.129	0.21432	0.025352					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	8.859	0.04119	0.026654					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	13.2							
Emission Control Device Comments	--							

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Certification Summary Information Report

Test Group	VKMXT00.0700	Evaporative/Refueling Family	--
Test #	VKMX10093998	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/09/2026	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	772-1, Jangduck-Dong		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2781	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	78.646
Charge Depleting Range (Calculated miles)	396.672	Charge Depleting Range (Actual miles)	396.672
Charge Depleting Range Highway (Calculated miles)	295.49	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	396.672
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.462	
Carbon Monoxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-2.71	
Drive Trace Energy Economy Rating		-2.3	
Drive Trace Inertia Work Ratio Rating		-3.01	
Integrated DC KW-HRS		1.3614	
Manufacturer Fuel Economy		18.245	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VKMXT00.0700	Evaporative/Refueling Family	--
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	10.258
		Carbon Monoxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	2.26
		Drive Trace Energy Economy Rating	-0.59
		Drive Trace Inertia Work Ratio Rating	2.78
		Integrated DC KW-HRS	2.4328
		Manufacturer Fuel Economy	23.716
Charge Depleting Bag/Phase #3			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.465
		Carbon Monoxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-2.89
		Drive Trace Energy Economy Rating	-2.14
		Drive Trace Inertia Work Ratio Rating	-3.13
		Integrated DC KW-HRS	1.3175
		Manufacturer Fuel Economy	17.649
Charge Depleting Bag/Phase #4			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	175.075
		Carbon Monoxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0
		Drive Trace Energy Economy Rating	0.03
		Drive Trace Inertia Work Ratio Rating	0
		Integrated DC KW-HRS	56.1392
		Manufacturer Fuel Economy	32.066
Charge Depleting Bag/Phase #5			

Certification Summary Information Report

Test Group	VKMXT00.0700	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.462</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-2.62</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.89</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.299</td></tr><tr><td>Manufacturer Fuel Economy</td><td>17.408</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.462	Carbon Monoxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-2.62	Drive Trace Energy Economy Rating	-2	Drive Trace Inertia Work Ratio Rating	-2.89	Integrated DC KW-HRS	1.299	Manufacturer Fuel Economy	17.408		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.462																				
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Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	-2.62																				
Drive Trace Energy Economy Rating	-2																				
Drive Trace Inertia Work Ratio Rating	-2.89																				
Integrated DC KW-HRS	1.299																				
Manufacturer Fuel Economy	17.408																				
Charge Depleting Bag/Phase #6																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.26</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>2.4</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.58</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>3.08</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.3975</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.367</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.26	Carbon Monoxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.4	Drive Trace Energy Economy Rating	-0.58	Drive Trace Inertia Work Ratio Rating	3.08	Integrated DC KW-HRS	2.3975	Manufacturer Fuel Economy	23.367		
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Drive Trace Inertia Work Ratio Rating	3.08																				
Integrated DC KW-HRS	2.3975																				
Manufacturer Fuel Economy	23.367																				
Charge Depleting Bag/Phase #7																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.463</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-2.74</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2.11</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.3068</td></tr><tr><td>Manufacturer Fuel Economy</td><td>17.51</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.463	Carbon Monoxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-2.74	Drive Trace Energy Economy Rating	-2.11	Drive Trace Inertia Work Ratio Rating	-2.99	Integrated DC KW-HRS	1.3068	Manufacturer Fuel Economy	17.51		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.463																				
Carbon Monoxide	0																				
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Drive Trace Absolute Speed Change Rating	-2.74																				
Drive Trace Energy Economy Rating	-2.11																				
Drive Trace Inertia Work Ratio Rating	-2.99																				
Integrated DC KW-HRS	1.3068																				
Manufacturer Fuel Economy	17.51																				
Charge Depleting Bag/Phase #8																					

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Certification Summary Information Report

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Certification Summary Information Report

Test Group		VKMXT00.0700			Evaporative/Refueling Family			--			
Consolidated List of Standards											
Exhaust Standards											
Cert Region		Federal			Cert/In-Use Code			Cert			
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 4 Bin 0			
Fuel		Electricity			Test Procedure			Multi-Cycle Test (MCT)			
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	0
150,000 miles		CREE		--	--	--	--	--	--	0	0
Cert Region		Federal			Cert/In-Use Code			Cert			
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 4 Bin 0			
Fuel		Electricity			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	0

Certification Summary Information Report

Test Group		VKMXT00.0700	Evaporative/Refueling Family		--
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VKMXT00.0700	Evaporative/Refueling Family		--
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

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L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

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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	