

Certification Summary Information Report

Manufacturer	Porsche AG	Manufacturer Code	PRX
Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Certificate Number	VPRXJ03.0CV6-005	CARB Executive Order #	--
Certificate Issue Date	06/02/2026	Certificate Revision Date	--
Certificate Effective Date	06/02/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/20/2026 04:13:05 PM
Model Year	2027		
Test Group Information			
CSI Type	New	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		
Drive Sources and Fuel(s)			
Drive Source #1:	Combustion Engine		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Gasoline	Spark Ignition Direct fuel injection	No
Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT3, LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VPRXGPGNNCV6	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	06/08/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VPRXJ03.0CV6
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	OBD approval E-26-102		
Mfr Test Group Comments	Cayenne, Cayenne Coupe, Panamera, Panamera 4; EDV testing performed in Drive mode.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/23/2026 03:32:27 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	176	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	176				
Mfr Evaporative/Refueling Family Comments	Evap system for Cayenne; all ICE, non-hybrid models						
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				
VPRXR0176RED-001	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
Porsche AG	1 - Porsche	400 - Cayenne	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	405 - Cayenne Coupe	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	400 - Cayenne	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	405 - Cayenne Coupe	Federal	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	V-shaped engine	Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	0W40				
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N				

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Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
--				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
TWC/DFI/WR-HO2S/HO2S/1TC/2CAC (Cayenne 3.0 L); 2TWC(2)/DFI/2WR-HO2S/2HO2S/2TC/2CAC (Panamera 2.9 L)				
Engine Configuration Number 1				
Engine Displacement (liters)	3.0	Engine Rated Horsepower	348	
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	VarioCam			
Variable Valve Lift?	Yes			
Variable Valve Lift System Description	VarioCam Plus			
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	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No	
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--	
Closed Loop Air Injection System	No			
Air Injection Type	--	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	engine for Cayenne and Cayenne Coupe			

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Engine Configuration Number 2			
Engine Displacement (liters)	2.9	Engine Rated Horsepower	348
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	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	VarioCam		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	VarioCam Plus		
Number of Knock Sensors	1	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	--		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Engine for Panamera and Panamera 4		

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		RPRX91005432	RPRX91005430	RPRX10079377	RPRX10079376	RPRX91005431	--	228.2	--	286.1	--

SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	RPRX91005432	RPRX91005430	RPRX10079377

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED						
Emission Data Vehicle Information									
Vehicle ID / Configuration	EC-9YA-AT-24 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RPRXT03.0CV6	Original Evaporative/Refueling Family	RPRXR0176RED						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Cayenne						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9994						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	DCB	Rated Horsepower	348						
Displacement (liters)	3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel						
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4837	Equivalent Test Weight (pounds)	5250						
GVWR (lbs)	6217	N/V Ratio	23.3						
Axle Ratio	3.2								
Transmission Type	Semi-Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creeper Gear	No						

Certification Summary Information Report

Test Group		VPRXJ03.0CV6			Evaporative/Refueling Family			VPRXR0176RED
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	42.759	0.4385	0.026108	-11.186	0.51776	0.023261	17.3	
Cold CO	42.759	0.4385	0.026108	-11.186	0.51776	0.023261	N/A	
US06	42.759	0.4385	0.026108	-11.186	0.51776	0.023261	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	Porsche Internal Name: SE0494 Evaporative emissions, emissions and evaporative durability							

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079720	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/20/2023	Fuel	N/A
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4253	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	409.99	--
FE BAG 1 (Bag 1 Fuel Economy)	21.18	21.18
CO2 BAG 2 (Bag 2 Carbon Dioxide)	384.85	--
FE BAG 2 (Bag 2 Fuel Economy)	22.62	22.62
CO2 BAG 3 (Bag 3 Carbon Dioxide)	356.51	--
FE BAG 3 (Bag 3 Fuel Economy)	24.41	24.41
METHANE (CH4 - Methane)	0.002233	--
CO (Carbon Monoxide)	0.112197	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.6151	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6438	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.9466	--
HCHO (Formaldehyde)	0.00001	--
MFR FE (Manufacturer Fuel Economy)	22.75	22.75
NOX (Nitrogen Oxide)	0.0266459	--
HC-NM (Non-methane Hydrocarbon)	0.0104073	--
NMOG (Non-methane organic gases)	0.0114679	--
HC-TOTAL (Total Hydrocarbon)	0.012268	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	382.49	999

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	382.27	--

Manufacturer Test Comments FTP for 2-day evap test, E10 fuel; Porsche Test #23000164

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079745	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/17/2023	Fuel	N/A
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7169	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	433.49	--
FE BAG 1 (Bag 1 Fuel Economy)	20.04	20.04
CO2 BAG 2 (Bag 2 Carbon Dioxide)	410.74	--
FE BAG 2 (Bag 2 Fuel Economy)	21.19	21.19
CO2 BAG 3 (Bag 3 Carbon Dioxide)	368.09	--
FE BAG 3 (Bag 3 Fuel Economy)	23.61	23.61
METHANE (CH4 - Methane)	0.0020247	--
CO (Carbon Monoxide)	0.1958701	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.5323	--
DT-EER (Drive Trace Energy Economy Rating)	1.10516	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.9817	--
HCHO (Formaldehyde)	0.00001	--
MFR FE (Manufacturer Fuel Economy)	21.54	21.54
NOX (Nitrogen Oxide)	0.0331358	--
HC-NM (Non-methane Hydrocarbon)	0.0113884	--
NMOG (Non-methane organic gases)	0.012549	--
HC-TOTAL (Total Hydrocarbon)	0.0131396	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	404	999

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	403.75	--

Manufacturer Test Comments FTP for 3-day evap test, E10 fuel; Porsche Test #23033934

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079746	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/01/2023	Fuel	N/A
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6949	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	398.67	--
FE BAG 1 (Bag 1 Fuel Economy)	21.8	21.8
CO2 BAG 2 (Bag 2 Carbon Dioxide)	381.33	--
FE BAG 2 (Bag 2 Fuel Economy)	22.83	22.83
CO2 BAG 3 (Bag 3 Carbon Dioxide)	349.45	--
FE BAG 3 (Bag 3 Fuel Economy)	24.9	24.9
METHANE (CH4 - Methane)	0.0018457	--
CO (Carbon Monoxide)	0.0711893	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2787	--
DT-EER (Drive Trace Energy Economy Rating)	-0.7427	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.2906	--
HCHO (Formaldehyde)	0.00001	--
MFR FE (Manufacturer Fuel Economy)	23.13	23.13
NOX (Nitrogen Oxide)	0.0250509	--
HC-NM (Non-methane Hydrocarbon)	0.0094798	--
NMOG (Non-methane organic gases)	0.0104459	--
HC-TOTAL (Total Hydrocarbon)	0.0111361	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	376.31	999

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	376.16	--

Manufacturer Test Comments FTP for ORVR evap test, E10 fuel; Porsche Test #23000160

Test #	RPRX10079772	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	RPRX10079720	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/20/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	2650	Odometer Units	M
4WD Test Dyno	Yes	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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2209	--

Manufacturer Test Comments 2-day evap, E10 fuel; Porsche test number 23000166

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	0.2209	0.0108	0.232	0.45	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2209	0.0108	0.232	0.45	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079773	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	RPRX10079745	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/18/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4484	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.194	--

Manufacturer Test Comments 3-day evap, E10 fuel; Porsche test number 23031890

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	0.194	0.014	0.208	0.45	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.194	0.014	0.208	0.45	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Test #	RPRX10079774	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	RPRX10079746	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/02/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6967	Odometer Units	M
4WD Test Dyno	Yes	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)
HC (Hydrocarbon for Running Loss and ORVR)	0.0165	--

Manufacturer Test Comments ORVR for evap; E10 fuel; Porsche test number 23000162

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.016	0.007	0.02	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.016	0.007	0.02	0.2	Pass

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Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079775	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	RPRX10079745	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/17/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4466	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--	Road Speed Fan Usage	--
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

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 Running Loss test, E10 fuel; Porsche test number 23033952

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.05	Pass

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Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED						
Emission Data Vehicle Information									
Vehicle ID / Configuration	ECFE-9YA-AT-24 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RPRXT03.0CV6	Original Evaporative/Refueling Family	RPRXR0176RED						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Cayenne						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9994						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	DCB	Rated Horsepower	348						
Displacement (liters)	3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel						
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4859	Equivalent Test Weight (pounds)	5250						
GVWR (lbs)	6250	N/V Ratio	22.9						
Axle Ratio	3.2								
Transmission Type	Semi-Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creeper Gear	No						

Certification Summary Information Report

Test Group	VPRXJ03.0CV6			Evaporative/Refueling Family			VPRXR0176RED
Dynamometer Coefficients:							
	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	44.872	0.26339	0.028542	-10.247	0.28716	0.025194	17.3
Cold CO	49.368	0.2898	0.031395	-23.762	0.13918	0.029293	N/A
US06	44.872	0.26339	0.028542	-10.247	0.28716	0.025194	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	Porsche Internal Name: SE0496 Emissions Worst Case						

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079376	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	02/11/2023	Fuel	Gasoline
Fuel Batch ID	TCC10	Fuel Calibration Number	20
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4765	Odometer Units	M
4WD Test Dyno	Yes	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)	0.0128	--
CO (Carbon Monoxide)	0.5324	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.1703	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2587	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.2477	--
MFR FE (Manufacturer Fuel Economy)	17.86	17.86
NOX (Nitrogen Oxide)	0.0271	--
N2O (Nitrous Oxide)	0.001	--
HC-NM (Non-methane Hydrocarbon)	0.0699	--
NMOG (Non-methane organic gases)	0.077	--
HC-TOTAL (Total Hydrocarbon)	0.0823	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	483	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	481.95	--

Manufacturer Test Comments

CAYENNE BASE COLD CO Test No. 20230211TC101

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 70	CO	0.53	--	--	--	0.07	--	0.6	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.07	--	--	--	0.0068	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV70	CO	0.53	--	--	--	0.07	--	0.6	12.5	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079515	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	01/27/2023	Fuel	Gasoline
Fuel Batch ID	HF0437	Fuel Calibration Number	314
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4299	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	424.33	--
FE BAG 1 (Bag 1 Fuel Economy)	20.85	20.85
CO2 BAG 2 (Bag 2 Carbon Dioxide)	403.99	--
FE BAG 2 (Bag 2 Fuel Economy)	21.93	21.93
CO2 BAG 3 (Bag 3 Carbon Dioxide)	363.15	--
FE BAG 3 (Bag 3 Fuel Economy)	24.36	24.36
METHANE (CH4 - Methane)	0.0033	--
CO (Carbon Monoxide)	0.1337	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.198	--
DT-EER (Drive Trace Energy Economy Rating)	0.2298	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.099	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	22.3	22.3
NOX (Nitrogen Oxide)	0.0325	--
N2O (Nitrous Oxide)	0.0007	--
HC-NM (Non-methane Hydrocarbon)	0.0095	--
NMOG (Non-methane organic gases)	0.0098	--
PM (Particulate Matter)	0.0013	--
HC-TOTAL (Total Hydrocarbon)	0.0127	--

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	397	397

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	396.98	--

Manufacturer Test Comments CAYENNE BASE FTP75 GHG FE Test No. 20230127TC205

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 70	METHANE	0.0033	--	--	--	0.0017	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0007	--	--	--	0	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.13	--	--	--	0.07	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	397	--	--	--	0	--	397	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	HCHO	0	--	--	--	0.0003	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0098	--	1.1	--	0.0074	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0423	--	1.1	--	--	--	0.061	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0325	--	--	--	0.0114	--	0.044	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0013	--	--	--	0	--	0.001	0.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0033	--	--	--	0.0017	--	0.005	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.0007	--	--	--	0	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.13	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	HCHO	0	--	--	--	0.0003	--	0	0.004	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0098	--	1.1	--	0.0074	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0423	--	1.1	--	--	--	0.061	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0325	--	--	--	0.0114	--	0.044	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0013	--	--	--	0	--	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10091720	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/03/2023	Fuel	Gasoline
Fuel Batch ID	HF2042	Fuel Calibration Number	216
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4520	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	458.89	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	374.32	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	374.32	--
METHANE (CH4 - Methane)	0.0018	--
CO (Carbon Monoxide)	0.1215	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.3709	--
DT-EER (Drive Trace Energy Economy Rating)	0.1646	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3184	--
MFR FE (Manufacturer Fuel Economy)	20.86	20.86
NOX (Nitrogen Oxide)	0.0193	--
N2O (Nitrous Oxide)	0.0013	--
HC-NM (Non-methane Hydrocarbon)	0.0095	--
NMOG (Non-methane organic gases)	0.0104	--
PM (Particulate Matter)	0.0026	--
HC-TOTAL (Total Hydrocarbon)	0.0113	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	413	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	413.38	--

Certification Summary Information Report

Test Group		VPRXJ03.0CV6		Evaporative/Refueling Family				VPRXR0176RED				
Manufacturer Test Comments		CAYENNE BASE 50F EMISSIONS Test No. 20230203TC101										
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 ULEV70	CO	0.12	--	--	--	0.26	--	0.4	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0104	--	1.1	--	0.0082	--	0.019	99.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0297	--	1.1	--	--	--	0.054	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0193	--	--	--	0.016	--	0.035	99.999	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX91005432	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2023	Fuel	Gasoline
Fuel Batch ID	27626	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5092	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	450.6746216	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	420.0603027	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	379.248291	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0023236	--
CO (Carbon Monoxide)	0.0770797	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.5117806	--
DT-EER (Drive Trace Energy Economy Rating)	1.6117091	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4344615	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0213519	--
N2O (Nitrous Oxide)	0.0002892	--
HC-NM (Non-methane Hydrocarbon)	0.009275	--
NMOG (Non-methane organic gases)	0.0102064	--
HC-TOTAL (Total Hydrocarbon)	0.011013	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Certification Summary Information Report

Test Group		VPRXJ03.0CV6			Evaporative/Refueling Family					VPRXR0176RED		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		415.1994934			--					
Manufacturer Test Comments		None Unrounded Result for the following test results were modified by Verify: FE BAG 3, MFR FE, FE BAG 2, FE BAG 1										
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 70	METHANE	0.0023	--	--	--	0.0017	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0003	--	--	--	0	--	0	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.08	--	--	--	0.07	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.21	--	--	--	0.07	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0102	--	1.1	--	0.0074	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0316	--	1.1	--	--	--	0.05	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0463	--	1.1	--	--	--	0.046	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0214	--	--	--	0.0114	--	0.033	999.999	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0023	--	--	--	0.0017	--	0.004	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.0003	--	--	--	0	--	0	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.08	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0102	--	1.1	--	0.0074	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0316	--	1.1	--	--	--	0.05	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0214	--	--	--	0.0114	--	0.033	999.999	Pass

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

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079512	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	01/27/2023	Fuel	Gasoline
Fuel Batch ID	HF0437	Fuel Calibration Number	314
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4310	Odometer Units	M
4WD Test Dyno	Yes	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)	0.0009	--
CO (Carbon Monoxide)	0.0131	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.0571	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4719	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.5771	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	33.05	33.05
NOX (Nitrogen Oxide)	0.0067	--
N2O (Nitrous Oxide)	0.0001	--
HC-NM (Non-methane Hydrocarbon)	0.0015	--
NMOG (Non-methane organic gases)	0.0015	--
PM (Particulate Matter)	0.0006	--
HC-TOTAL (Total Hydrocarbon)	0.0023	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	268	268

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	267.96	--

Manufacturer Test Comments

CAYENNE BASE HWY GHG FE Test No. 20230127TC206

Certification Summary Information Report

Test Group		VPRXJ03.0CV6				Evaporative/Refueling Family				VPRXR0176RED		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	268	--	--	--	0	--	268	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0015	--	1.04	--	0.0074	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0082	--	1.04	--	--	--	0.027	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0067	--	--	--	0.0114	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0015	--	1.04	--	0.0074	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0082	--	1.04	--	--	--	0.027	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0067	--	--	--	0.0114	--	0.018	999.999	Pass

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

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX91005431	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2023	Fuel	Gasoline
Fuel Batch ID	27626	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5104	Odometer Units	M
4WD Test Dyno	Yes	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)	0.0003828	--
CO (Carbon Monoxide)	0.041138	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.5003059	--
DT-EER (Drive Trace Energy Economy Rating)	0.4022212	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.3384905	--
MFR FE (Manufacturer Fuel Economy)	31.1293716	--
NOX (Nitrogen Oxide)	0.004453	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0002156	--
NMOG (Non-methane organic gases)	0.0002221	--
HC-TOTAL (Total Hydrocarbon)	0.0005897	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	276.3095093	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		VPRXJ03.0CV6				Evaporative/Refueling Family				VPRXR0176RED		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0002	--	1.04	--	0.0074	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0047	--	1.04	--	--	--	0.024	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0045	--	--	--	0.0114	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0002	--	1.04	--	0.0074	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0047	--	1.04	--	--	--	0.024	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0045	--	--	--	0.0114	--	0.016	999.999	Pass

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

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079350	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/02/2023	Fuel	Gasoline
Fuel Batch ID	HF2042	Fuel Calibration Number	216
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4489	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	656.69	--
FE BAG 1 (Bag 1 Fuel Economy)	13.13	13.13
CO2 BAG 2 (Bag 2 Carbon Dioxide)	373.66	--
FE BAG 2 (Bag 2 Fuel Economy)	23.08	23.08
METHANE (CH4 - Methane)	0.0027	--
CO (Carbon Monoxide)	0.1553	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.5279	--
DT-EER (Drive Trace Energy Economy Rating)	-1.5981	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.7086	--
MFR FE (Manufacturer Fuel Economy)	19.75	19.75
NOX (Nitrogen Oxide)	0.0104	--
N2O (Nitrous Oxide)	0.0003	--
HC-NM (Non-methane Hydrocarbon)	0.0034	--
NMOG (Non-methane organic gases)	0.0035	--
PM (Particulate Matter)	0.0032	--
HC-TOTAL (Total Hydrocarbon)	0.0061	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	437	--

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	436.63	--

Manufacturer Test Comments CAYENNE BASE US06 EMISSIONS Test No. 20230202TC103 corrected 4WD

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.16	--	--	--	0.07	--	0.2	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0035	--	1.03	--	0.0074	--	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0104	--	--	--	0.0114	--	0.022	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0032	--	--	--	0	--	0.003	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.16	--	--	--	0.07	--	0.2	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0035	--	1.03	--	0.0074	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0139	--	--	--	--	--	0.033	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0104	--	--	--	0.0114	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0032	--	--	--	0	--	0.003	0.006	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX91005430	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2023	Fuel	Gasoline
Fuel Batch ID	27626	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5125	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	679.5682373	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	377.0495911	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0063597	--
CO (Carbon Monoxide)	0.3134833	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.4535716	--
DT-EER (Drive Trace Energy Economy Rating)	-1.2848525	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.1547284	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0110549	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0049102	--
NMOG (Non-methane organic gases)	0.0050575	--
HC-TOTAL (Total Hydrocarbon)	0.0111259	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	443.9394226	--

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		VPRXJ03.0CV6				Evaporative/Refueling Family				VPRXR0176RED		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.31	--	--	--	0.07	--	0.4	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0051	--	1.03	--	0.0074	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0111	--	--	--	0.0114	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.31	--	--	--	0.07	--	0.4	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0051	--	1.03	--	0.0074	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0162	--	--	--	--	--	0.035	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0111	--	--	--	0.0114	--	0.022	999.999	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Test #	RPRX10079377	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/02/2023	Fuel	Gasoline
Fuel Batch ID	HF2042	Fuel Calibration Number	216
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4505	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0013	--
CO (Carbon Monoxide)	0.083	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.5785	--
DT-EER (Drive Trace Energy Economy Rating)	0.5505	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.8216	--
MFR FE (Manufacturer Fuel Economy)	19.76	19.76
NOX (Nitrogen Oxide)	0.0249	--
N2O (Nitrous Oxide)	0.0004	--
HC-NM (Non-methane Hydrocarbon)	0.0018	--
PM (Particulate Matter)	0.0026	--
HC-TOTAL (Total Hydrocarbon)	0.003	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	436	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	436.47	--

Manufacturer Test Comments CAYENNE BASE SC03 Test No. 20230202TC108

Certification Summary Information Report

Test Group		VPRXJ03.0CV6				Evaporative/Refueling Family				VPRXR0176RED		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.08	--	--	--	0.07	--	0.2	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0249	--	--	--	0.016	--	0.041	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.08	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0019	--	1.03	--	0.0074	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0268	--	--	--	--	--	0.046	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0249	--	--	--	0.0114	--	0.036	999.999	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Fuel Properties			
Fuel Batch ID	HF2042	Fuel Calibration Number	216
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/24/2021
Fuel Batch Calibration Effective Date	08/24/2021	Fuel Batch Calibration Ineffective Date	08/24/2026
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 (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18000
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	--
Fuel Batch ID	W22	Fuel Calibration Number	24
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/19/2023
Fuel Batch Calibration Effective Date	01/19/2023	Fuel Batch Calibration Ineffective Date	01/31/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.741
Fuel Ethanol Volume Percent (%)	10.1	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17962
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.834	Weight Fraction CO2	--
Fuel Batch ID	TCC10	Fuel Calibration Number	20
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	08/31/2022
Fuel Batch Calibration Effective Date	08/31/2022	Fuel Batch Calibration Ineffective Date	08/31/2025
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 (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17943
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	27626	Fuel Calibration Number	2
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/11/2018
Fuel Batch Calibration Effective Date	12/11/2018	Fuel Batch Calibration Ineffective Date	--

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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 (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18001
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	--
Fuel Batch ID	HF0437	Fuel Calibration Number	314
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/09/2023
Fuel Batch Calibration Effective Date	02/09/2023	Fuel Batch Calibration Ineffective Date	02/28/2026
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 (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18440
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	--

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	California LEV-IV ULEV70
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	--	--	--	--	--	--	0.26	1.7
4,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.016
4,000 miles	NMOG	--	--	1.1	--	--	--	0.0082	99.999
4,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.01	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.016	99.999

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	Federal Tier 3 Bin 70
Fuel	Gasoline	Test Procedure	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	METHANE	--	--	--	--	--	--	0.0017	0.030
120,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0.07	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.9
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0074	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	1	--	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.1	--	--	--	--	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0114	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	California LEV-IV ULEV70
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	--	--	1.04	--	--	--	0.0074	999.999
150,000 miles	NMOG+NOX	--	--	1.04	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0114	999.999

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	Federal Tier 3 Bin 70
Fuel	Gasoline	Test Procedure	SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0082	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.016	999.999

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	Federal Tier 3 Bin 70
Fuel	Gasoline	Test Procedure	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0074	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0114	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Certification Summary Information Report

Test Group		VPRXJ03.0CV6			Evaporative/Refueling Family			VPRXR0176RED		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70		
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	METHANE	--	--	--	--	--	--	0.0017	0.030	
120,000 miles	N2O	--	--	--	--	--	--	0	0.010	
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7	
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0074	999.999	
150,000 miles	NMOG+NOX	--	--	1.1	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.0114	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.003	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70		
Fuel		Gasoline			Test Procedure			Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
50,000 miles	CO	--	--	--	--	--	--	0.07	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0068	0.3	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70		
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	--	--	--	--	--	--	0.07	999.9	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0074	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.0114	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.006	

Certification Summary Information Report

Test Group		VPRXJ03.0CV6			Evaporative/Refueling Family			VPRXR0176RED		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70		
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	--	--	--	--	--	--	0.07	1.7	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0074	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.0114	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CREE	--	--	--	--	--	--	0	999.9	
150,000 miles	NMOG	--	--	1.04	--	--	--	0.0074	999.999	
150,000 miles	NMOG+NOX	--	--	1.04	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.0114	999.999	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70		
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	--	--	--	--	--	--	0.07	12.5	
Evaporative/Refueling Standards										

Certification Summary Information Report

Test Group		VPRXJ03.0CV6	Evaporative/Refueling Family		VPRXR0176RED
Evaporative/Refueling Family		VPRXR0176RED	Cert Region		California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)
Cert/In-Use Code		Both	Standard Level		
Test Procedure		Evap Canister Bleed Test			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0
Evaporative/Refueling Family		VPRXR0176RED	Cert Region		California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)
Cert/In-Use Code		Both	Standard Level		
Test Procedure		Federal fuel 3-day evap			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.014
Evaporative/Refueling Family		VPRXR0176RED	Cert Region		Federal
Cert/In-Use Code		Both	Standard Level		Federal Tier 3 Evap
Test Procedure		2-day evap			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.0108
Evaporative/Refueling Family		VPRXR0176RED	Cert Region		Federal
Cert/In-Use Code		Both	Standard Level		Federal Tier 3 Evap
Test Procedure		Federal 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		VPRXR0176RED	Cert Region		Federal
Cert/In-Use Code		Both	Standard Level		Federal Tier 3 Evap
Test Procedure		Federal fuel refueling test (ORVR)			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0.007

Certification Summary Information Report

Test Group	VPRXJ03.0CV6		Evaporative/Refueling Family	VPRXR0176RED	
Evaporative/Refueling Family	VPRXR0176RED		Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal 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	VPRXR0176RED		Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.0108
Evaporative/Refueling Family	VPRXR0176RED		Cert Region	Federal Federal Tier 3 Evap	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0
Evaporative/Refueling Family	VPRXR0176RED		Cert Region	Federal Federal Tier 3 Evap	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.014
Evaporative/Refueling Family	VPRXR0176RED		Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0.007

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Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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

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Test Group		VPRXJ03.0CV6	Evaporative/Refueling Family		VPRXR0176RED
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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Test Group		VPRXJ03.0CV6	Evaporative/Refueling Family		VPRXR0176RED
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		

Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
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