

Certification Summary Information Report

Manufacturer	Porsche AG	Manufacturer Code	PRX
Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Certificate Number	VPRXJ03.0HV6-013	CARB Executive Order #	--
Certificate Issue Date	07/22/2026	Certificate Revision Date	--
Certificate Effective Date	07/22/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	07/06/2026 10:11:58 AM
Model Year	2027		

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Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
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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	--	--

Drive Source #2: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition Direct fuel injection	No

Hybrid Indicator	Yes		
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	LDV, LDT4
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	VPRXHHGNNCH6	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	07/13/2026	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	VPRXJ04.0HV8
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	APPROVAL E-26-101: SAE J1979-2 IMPLEMENTATION - CAYENNE E-HYBRID, CAYENNE S E-HYBRID; PCV MONITORING ALTERNATE PHASE-IN IMPLEMENTATION - PANAMERA 4 E-HYBRID, PANAMERA 4S E-HYBRID; SAE J1979-2 IMPLEMENTATION		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/23/2026 03:48:02 PM				
Integrated ORVR?	No	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	Stainless Steel				
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	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	Evap system for all Cayenne hybrid (PHEV) models						
Leak Family Details							
Leak Family Indicator	No						
Canister Bleed Test Indicator	No	Applicability of Evaporative Canister Bleed Test	--				
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	--						
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	435 - Cayenne E-Hybrid Coupe	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	435 - Cayenne E-Hybrid Coupe	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	430 - Cayenne E-Hybrid	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	440 - Cayenne S E-Hybrid	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	430 - Cayenne E-Hybrid	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	445 - Cayenne S E-Hybrid Coupe	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	445 - Cayenne S E-Hybrid Coupe	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	440 - Cayenne S E-Hybrid	Federal	All Wheel Drive	Semi-Automatic	8	Yes

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH	
Engine Description				
Hybrid Type	IC Engine/Electric Motor	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	
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				
--				
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	Inlet valve is variable			
Number of Knock Sensors	4	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	--	
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	TWC/MAP/DFI/WR-HO2S/HO2S/1TC/2CAC			

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Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Engine Configuration Number 2			
Engine Displacement (liters)	3.0	Engine Rated Horsepower	300
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	Inlet valve is variable		
Number of Knock Sensors	4	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	--
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	TWC/MAP/DFI/WR-HO2S/HO2S/1TC/2CAC		

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Engine Configuration Number 3			
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	4	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	Panamera 4S E-Hybrid (PHEV)		

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Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH							
Engine Configuration Number 4										
Engine Displacement (liters)	2.9	Engine Rated Horsepower	300							
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	4	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	Panamera 4 E-Hybrid (PHEV)									
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	RPRX10085338	RPRX10085340	RPRX10085341	RPRX10085342	RPRX10085339	--	--	--	--	--
Gasoline	RPRX10085338	RPRX10085340	RPRX10085341	RPRX10085342	RPRX10085339	21.8	228.2	29.3	286.1	--
SFTP LEV-III Official Test Numbers										
Test Group Fuel	FTP	US06	SC03							
Gasoline	RPRX10085338	RPRX10085340	RPRX10085341							

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Test Group		VPRXJ03.0HV6	Evaporative/Refueling Family		VPRXR0176REH
Official Charge Depleting Test Numbers					
Test Group Fuel		UDDS		Highway	
Electricity		RPRX10085344		RPRX10085345	
Gasoline		RPRX10085344		RPRX10085345	
Hybrid Electric Vehicle And Fuel Cell Information					
Rechargeable Energy Storage System		Battery(s)		Rechargeable Energy Storage System, if Other	
Battery Type		Lithium Ion		Number of Battery Packs	
Total Voltage of Battery Packs		360		Battery Energy Capacity	
Battery Specific Energy		161		Battery Charger Type	
Number of Capacitors		--		Capacitor Rating (In Farads)	
Mfr Capacitor Comments		--			
Hydraulic System Description		--			
Regenerative Braking Type		Electrical Regen Brake			
Regenerative Braking Source		Both		Driver Controlled Regenerative Braking	
Mfr Regenerative Braking Description		--			
Drive Motor(s)/Generator(s)		2			
Motor/Generator Type 1		DC Brushless		Rated Motor/Generator Power	
Motor/Generator Type 2		DC Brushless		Rated Motor/Generator Power	
Mfr Fuel Cell Description		--			
Fuel Cell On-Board H2 Storage Capacity (kg)		--		Usable H2 Fill Capacity (kg)	
Mfr Hybrid Electric/ Electric Vehicle Comments		130kW for Cayenne PHEVs and 140 kW for Panamera PHEVs			

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Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
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Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-9YAH-24 / 3	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	RPRXT03.0CH6	Original Evaporative/Refueling Family	RPRXR0176REH
Original Test Vehicle Model Year	2024		

Vehicle Model

Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Cayenne E-Hybrid
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
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	0	Odometer Correction Factor	1
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	1	Air Aspiration Device Configuration	Single
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)	5525	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	6889	N/V Ratio	24
Axle Ratio	3.21		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

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	49.86	0.0383	0.03191	22.48	0.1809	0.03197	17.5

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH						
Emission Control Device Comments	TWC/MAP/DFI/WR-HO2S/HO2S/1TC/2CAC								
Manufacturer Test Vehicle Comments	Cayenne E-Hybrid (plug-in hybrid), EVAP Configuration								
Test #	RPRX10084707	Test Procedure	23 - 2-day evap						
Exhaust Test # for this Evap Test	RPRX10084704	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	EPA Assigned						
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	5309	Odometer Units	M						
4WD Test Dyno	Yes	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						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.1223</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1223	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1223	--							
Manufacturer Test Comments									
2-day evap, E10 fuel; Porsche test number 23059064									
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	0.1223	0.003	0.125	0.5	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1223	0.003	0.125	0.5	Pass	

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Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10084709	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	RPRX10084705	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/27/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	EPA Assigned
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	4619	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2156	--

Manufacturer Test Comments

3-day evap, E10 fuel; Porsche test number 23047273

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	0.2156	0.0067	0.222	0.5	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2156	0.0067	0.222	0.5	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH						
Test #	RPRX10084708	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	RPRX10084704	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	11/03/2023	Fuel	Gasoline						
Fuel Batch ID	W22	Fuel Calibration Number	24						
Vehicle Class	N/A	DF Type	EPA Assigned						
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	4627	Odometer Units	M						
4WD Test Dyno	Yes	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						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC (Hydrocarbon for Running Loss and ORVR)</td> <td>0.0048</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC (Hydrocarbon for Running Loss and ORVR)	0.0048	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.0048	--							
Manufacturer Test Comments									
ORVR for evap; E10 fuel; Porsche test number 23047275									
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	0.005	0.005	0.01	0.2	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.005	0.005	0.01	0.2	Pass	

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Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10084754	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	RPRX10084705	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/27/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	EPA Assigned
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	4601	Odometer Units	M
4WD Test Dyno	Yes	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	--

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 23047270

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	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH									
Emission Data Vehicle Information												
Vehicle ID / Configuration	ECFE-9YASH-24 / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	RPRXT03.0CH6	Original Evaporative/Refueling Family	RPRXR0176REH									
Original Test Vehicle Model Year	2024											
Vehicle Model												
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Cayenne S E-Hybrid									
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> <tr> <td>2</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
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	0	Odometer Correction Factor	1									
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	1	Air Aspiration Device Configuration	Single									
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)	5531	Equivalent Test Weight (pounds)	6000									
GVWR (lbs)	6878	N/V Ratio	24									
Axle Ratio	3.21											
Transmission Type	Semi-Automatic	# of Transmission Gears	8									
Transmission Lockup	Yes	Creeper Gear	No									

Certification Summary Information Report

Test Group		VPRXJ03.0HV6			Evaporative/Refueling Family		VPRXR0176REH	
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	47.39	0.24204	0.028385	-12.302	0.32916	0.02499	17.4	
Cold CO	52.133	0.26592	0.031226	-19.826	0.14096	0.0291	N/A	
US06	47.39	0.24204	0.028385	-12.302	0.32916	0.02499	N/A	
Emission Control Device Comments		TWC/MAP/DFI/WR-HO2S/HO2S/1TC/2CAC						
Manufacturer Test Vehicle Comments		Cayenne S E-Hybrid Coupe (plug-in hybrid) EDV Configuration, V6 engine						

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085338	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	12/06/2023	Fuel	Gasoline
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4435	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	492.77	--
FE BAG 1 (Bag 1 Fuel Economy)	17.4	17.4
CO2 BAG 2 (Bag 2 Carbon Dioxide)	252.71	--
FE BAG 2 (Bag 2 Fuel Economy)	34.02	34.02
CO2 BAG 3 (Bag 3 Carbon Dioxide)	362.44	--
FE BAG 3 (Bag 3 Fuel Economy)	23.68	23.68
CO2 BAG 4 (Bag 4 Carbon Dioxide)	242.58	--
FE BAG 4 (Bag 4 Fuel Economy)	35.44	35.44
METHANE (CH4 - Methane)	0.0031	--
CO (Carbon Monoxide)	0.3211	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4106	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2747	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.1099	--
MFR FE (Manufacturer Fuel Economy)	26.04	26.04
NOX (Nitrogen Oxide)	0.0075	--
N2O (Nitrous Oxide)	0.001	--
HC-NM (Non-methane Hydrocarbon)	0.0114	--
NMOG (Non-methane organic gases)	0.0126	--
PM (Particulate Matter)	0.0016	--
HC-TOTAL (Total Hydrocarbon)	0.0144	--

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Certification Summary Information Report

Test Group		VPRXJ03.0HV6				Evaporative/Refueling Family				VPRXR0176REH		
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	0.0031	--	--	--	0.0059	--	0.009	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.001	--	--	--	0.0023	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.32	--	--	--	0.09	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.48	--	--	--	0.09	--	0.5	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	0.0126	--	1.1	--	0.0044	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0201	--	1.1	--	--	--	0.034	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.03	--	1.1	--	0.0137	--	0.03	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0075	--	--	--	0.0093	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0016	--	--	--	0	--	0.002	0.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0031	--	--	--	0.0059	--	0.009	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.001	--	--	--	0.0023	--	0.003	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.32	--	--	--	0.09	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO-COMP	0.48	--	--	--	0.09	--	0.5	4.2	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0126	--	1.1	--	0.0044	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0201	--	1.1	--	--	--	0.034	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX-COMP	0.03	--	--	--	0.0137	--	0.03	0.080	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0075	--	--	--	0.0093	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0016	--	--	--	0	--	0.002	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	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085342	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	12/08/2023	Fuel	Gasoline
Fuel Batch ID	HF2043	Fuel Calibration Number	20
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4556	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	687.73	--
FE BAG 1 (Bag 1 Fuel Economy)	12.49	12.49
CO2 BAG 2 (Bag 2 Carbon Dioxide)	523.05	--
FE BAG 2 (Bag 2 Fuel Economy)	16.48	16.48
CO2 BAG 3 (Bag 3 Carbon Dioxide)	502.99	--
FE BAG 3 (Bag 3 Fuel Economy)	17.12	17.12
CO2 BAG 4 (Bag 4 Carbon Dioxide)	292.75	--
FE BAG 4 (Bag 4 Fuel Economy)	29.44	29.44
METHANE (CH4 - Methane)	0.0046	--
CO (Carbon Monoxide)	0.6341	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3032	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6779	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.9845	--
MFR FE (Manufacturer Fuel Economy)	17.8	17.8
NOX (Nitrogen Oxide)	0.0046	--
N2O (Nitrous Oxide)	0.0004	--
HC-NM (Non-methane Hydrocarbon)	0.0304	--
NMOG (Non-methane organic gases)	0.0335	--
HC-TOTAL (Total Hydrocarbon)	0.0349	--

Certification Summary Information Report

Test Group		VPRXJ03.0HV6			Evaporative/Refueling Family				VPRXR0176REH			
		Test Result Name		Unrounded Test Result			Verify Calculated CREE/OPT-CREE					
		Carbon-Related Exhaust Emissions		485			--					
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		483.73			--					
Manufacturer Test Comments		Cayenne S E-Hybrid; CS COLD CO E10; Internal Test #20231208TC104										
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	0.63	--	--	--	0.09	--	0.7	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.03	--	--	--	0.0038	--	0	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV70	CO	0.63	--	--	--	0.09	--	0.7	12.5	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085343	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	12/12/2023	Fuel	N/A
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4587	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	500.42	--
FE BAG 1 (Bag 1 Fuel Economy)	17.14	17.14
CO2 BAG 2 (Bag 2 Carbon Dioxide)	274.36	--
FE BAG 2 (Bag 2 Fuel Economy)	31.31	31.31
CO2 BAG 3 (Bag 3 Carbon Dioxide)	365.4	--
FE BAG 3 (Bag 3 Fuel Economy)	23.52	23.52
CO2 BAG 4 (Bag 4 Carbon Dioxide)	251.67	--
FE BAG 4 (Bag 4 Fuel Economy)	34.15	34.15
METHANE (CH4 - Methane)	0.0028	--
CO (Carbon Monoxide)	0.2548	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.5472	--
DT-EER (Drive Trace Energy Economy Rating)	-1.0672	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.3956	--
MFR FE (Manufacturer Fuel Economy)	25.3	25.3
NOX (Nitrogen Oxide)	0.003	--
N2O (Nitrous Oxide)	0.001	--
HC-NM (Non-methane Hydrocarbon)	0.0147	--
NMOG (Non-methane organic gases)	0.0162	--
PM (Particulate Matter)	0.002	--
HC-TOTAL (Total Hydrocarbon)	0.0174	--

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Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085339	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	12/06/2023	Fuel	Gasoline
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4450	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0011	--
CO (Carbon Monoxide)	0.1274	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.7916	--
DT-EER (Drive Trace Energy Economy Rating)	-1.4204	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.3934	--
MFR FE (Manufacturer Fuel Economy)	33.72	33.72
NOX (Nitrogen Oxide)	0.0019	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0008	--
NMOG (Non-methane organic gases)	0.0009	--
PM (Particulate Matter)	0.0006	--
HC-TOTAL (Total Hydrocarbon)	0.002	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	255	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	254.84	--

Manufacturer Test Comments

Cayenne S E-Hybrid models; CS HFET E10; Internal test #20231206TC102

Certification Summary Information Report

Test Group		VPRXJ03.0HV6				Evaporative/Refueling Family				VPRXR0176REH		
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	0.0009	--	1.1	--	0.0044	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0028	--	1.1	--	--	--	0.016	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0019	--	--	--	0.0093	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0009	--	1.1	--	0.0044	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0028	--	1.1	--	--	--	0.016	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0019	--	--	--	0.0093	--	0.011	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	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085340	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	12/06/2023	Fuel	Gasoline
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4474	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	538.84	--
FE BAG 1 (Bag 1 Fuel Economy)	15.95	15.95
CO2 BAG 2 (Bag 2 Carbon Dioxide)	348.71	--
FE BAG 2 (Bag 2 Fuel Economy)	24.61	24.61
METHANE (CH4 - Methane)	0.0032	--
CO (Carbon Monoxide)	0.4119	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.2198	--
DT-EER (Drive Trace Energy Economy Rating)	-1.8906	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.357	--
MFR FE (Manufacturer Fuel Economy)	21.96	21.96
NOX (Nitrogen Oxide)	0.0177	--
N2O (Nitrous Oxide)	0.0002	--
HC-NM (Non-methane Hydrocarbon)	0.003	--
NMOG (Non-methane organic gases)	0.0031	--
PM (Particulate Matter)	0.0012	--
HC-TOTAL (Total Hydrocarbon)	0.0061	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	392	--

Certification Summary Information Report

Test Group		VPRXJ03.0HV6				Evaporative/Refueling Family				VPRXR0176REH		
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		390.91		--						
Manufacturer Test Comments		Cayenne S E-Hybrid; CS US06 E10; Internal Test #20231206TC103										
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	0.41	--	--	--	0.09	--	0.5	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0031	--	1.1	--	0.0044	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0177	--	--	--	0.0093	--	0.027	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0012	--	--	--	0	--	0.001	0.006	Pass
CA	4,000 miles	California LEV-IV ULEV70	CO	0.41	--	--	--	0.09	--	0.5	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0031	--	--	--	0.0044	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0177	--	--	--	0.0093	--	0.027	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0012	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085341	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	12/18/2023	Fuel	Gasoline
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4687	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0045	--
CO (Carbon Monoxide)	0.4473	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.366	--
DT-EER (Drive Trace Energy Economy Rating)	0.2764	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.034	--
MFR FE (Manufacturer Fuel Economy)	20.74	20.74
NOX (Nitrogen Oxide)	0.0065	--
N2O (Nitrous Oxide)	0.0006	--
HC-NM (Non-methane Hydrocarbon)	0.0026	--
NMOG (Non-methane organic gases)	0.0027	--
HC-TOTAL (Total Hydrocarbon)	0.007	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	415	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	414.01	--

Manufacturer Test Comments

Cayenne S E-Hybrid models; CS SC03 E10; Internal Test #20231218TC108

Certification Summary Information Report

Test Group		VPRXJ03.0HV6				Evaporative/Refueling Family				VPRXR0176REH		
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	0.45	--	--	--	0.09	--	0.5	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0027	--	1.1	--	0.0044	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0065	--	--	--	0.0093	--	0.016	999.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	CO	0.45	--	--	--	0.09	--	0.5	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0027	--	--	--	0.0044	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0065	--	--	--	0.0093	--	0.016	999.999	Pass

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085344	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/19/2023	Fuel	N/A
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4691	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
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	237.6	Recharge Event Energy (kiloWatt-hours)	17.5286
Charge Depleting Range (Calculated miles)	52.15	Charge Depleting Range (Actual miles)	44.02
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	38.52	Equivalent All Electric Range (miles)	47.43
Number of Charge Depleting Bags/Phases Conducted	9	Transition Bag/Phase Number	6
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.44	
	Average System Voltage	393.48	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.84	
	Drive Trace Energy Economy Rating	-1.065	
	Drive Trace Inertia Work Ratio Rating	-2.151	
	Formaldehyde	0	
	Integrated Amp-hours	7.12	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	2.76	
	System Start State of Charge Watt-hours	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	384.33	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	0.26	
	Drive Trace Energy Economy Rating	0.022	
	Drive Trace Inertia Work Ratio Rating	-0.246	
	Formaldehyde	0	
	Integrated Amp-hours	14.29	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	5.483	
	System Start State of Charge Watt-hours	2.76	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	373.57	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.12	
	Drive Trace Energy Economy Rating	-0.316	
	Drive Trace Inertia Work Ratio Rating	-0.908	
	Formaldehyde	0	
	Integrated Amp-hours	21.65	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	8.199	
	System Start State of Charge Watt-hours	5.483	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	365.98	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	0.37	
	Drive Trace Energy Economy Rating	-0.39	
	Drive Trace Inertia Work Ratio Rating	0.356	
	Formaldehyde	0	
	Integrated Amp-hours	29.04	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	10.863	
	System Start State of Charge Watt-hours	8.199	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	359.28	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	0.17	
	Drive Trace Energy Economy Rating	-0.8	
	Drive Trace Inertia Work Ratio Rating	-0.164	
	Formaldehyde	0	
	Integrated Amp-hours	36.58	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	13.532	
	System Start State of Charge Watt-hours	10.863	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.44	
	Average System Voltage	357.33	
	CH4 - Methane	0	
	Carbon Monoxide	0.28	
	Carbon dioxide	234.32	
	Carbon-Related Exhaust Emissions	235	
	Drive Trace Absolute Speed Change Rating	0.91	
	Drive Trace Energy Economy Rating	0.029	
	Drive Trace Inertia Work Ratio Rating	0.824	
	Formaldehyde	0	
	Integrated Amp-hours	38.31	
	Manufacturer Fuel Economy	36.62	
	Nitrogen Oxide	0.01	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0.03	
	Non-methane organic gases	0.033	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	235	
	Particulate Matter	0.0006	
	System End State of Charge Watt-hours	14.104	
	System Start State of Charge Watt-hours	13.532	
	Total Hydrocarbon	0.03	

Charge Depleting Bag/Phase #7

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	358.19	
	CH4 - Methane	0	
	Carbon Monoxide	0.17	
	Carbon dioxide	290.41	
	Carbon-Related Exhaust Emissions	291	
	Drive Trace Absolute Speed Change Rating	1.53	
	Drive Trace Energy Economy Rating	0.671	
	Drive Trace Inertia Work Ratio Rating	2.261	
	Formaldehyde	0	
	Integrated Amp-hours	38.13	
	Manufacturer Fuel Economy	29.59	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	291	
	Particulate Matter	0.0009	
	System End State of Charge Watt-hours	14.002	
	System Start State of Charge Watt-hours	14.104	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	357.93	
	CH4 - Methane	0	
	Carbon Monoxide	0.19	
	Carbon dioxide	281.8	
	Carbon-Related Exhaust Emissions	282	
	Drive Trace Absolute Speed Change Rating	0.61	
	Drive Trace Energy Economy Rating	0.026	
	Drive Trace Inertia Work Ratio Rating	0.443	
	Formaldehyde	0	
	Integrated Amp-hours	38.04	
	Manufacturer Fuel Economy	30.49	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	282	
	Particulate Matter	0.0021	
	System End State of Charge Watt-hours	13.93	
	System Start State of Charge Watt-hours	14.002	
	Total Hydrocarbon	0	
Charge Depleting Bag/Phase #9			

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH																																												
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.45</td></tr><tr><td>Average System Voltage</td><td>357.98</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0.12</td></tr><tr><td>Carbon dioxide</td><td>295.53</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>296</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>1.89</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.011</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>2.493</td></tr><tr><td>Formaldehyde</td><td>0</td></tr><tr><td>Integrated Amp-hours</td><td>37.77</td></tr><tr><td>Manufacturer Fuel Economy</td><td>29.08</td></tr><tr><td>Nitrogen Oxide</td><td>0.01</td></tr><tr><td>Nitrous Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Optional Carbon-Related Exhaust Emissions</td><td>296</td></tr><tr><td>System End State of Charge Watt-hours</td><td>13.798</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>13.93</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>			Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.45	Average System Voltage	357.98	CH4 - Methane	0	Carbon Monoxide	0.12	Carbon dioxide	295.53	Carbon-Related Exhaust Emissions	296	Drive Trace Absolute Speed Change Rating	1.89	Drive Trace Energy Economy Rating	1.011	Drive Trace Inertia Work Ratio Rating	2.493	Formaldehyde	0	Integrated Amp-hours	37.77	Manufacturer Fuel Economy	29.08	Nitrogen Oxide	0.01	Nitrous Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	Optional Carbon-Related Exhaust Emissions	296	System End State of Charge Watt-hours	13.798	System Start State of Charge Watt-hours	13.93	Total Hydrocarbon	0
	Test Result/Emission Name	Unrounded Test Result																																													
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	Nitrous Oxide	0																																													
	Non-methane Hydrocarbon	0																																													
	Non-methane organic gases	0																																													
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	System Start State of Charge Watt-hours	13.93																																													
	Total Hydrocarbon	0																																													
	Manufacturer Test Comments																																														
	CD UDDS test, Cayenne S PHEV Coupe, Internal Test No.:20231219TC105																																														

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10085345	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/20/2023	Fuel	N/A
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4691	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
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	238.4	Recharge Event Energy (kiloWatt-hours)	17.431
Charge Depleting Range (Calculated miles)	51.28	Charge Depleting Range (Actual miles)	40.3
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	31.78	Equivalent All Electric Range (miles)	45.77
Number of Charge Depleting Bags/Phases Conducted	7	Transition Bag/Phase Number	5
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.25	
	Average System Voltage	387.71	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	7.35	
	Drive Trace Energy Economy Rating	0.443	
	Drive Trace Inertia Work Ratio Rating	8.76	
	Formaldehyde	0	
	Integrated Amp-hours	9.34	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	3.604	
	System Start State of Charge Watt-hours	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.26	
	Average System Voltage	375.38	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	6.55	
	Drive Trace Energy Economy Rating	-0.151	
	Drive Trace Inertia Work Ratio Rating	8.202	
	Formaldehyde	0	
	Integrated Amp-hours	18.63	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	7.065	
	System Start State of Charge Watt-hours	3.604	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.25	
	Average System Voltage	364.03	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	5.39	
	Drive Trace Energy Economy Rating	-0.15	
	Drive Trace Inertia Work Ratio Rating	6.649	
	Formaldehyde	0	
	Integrated Amp-hours	28.14	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	10.494	
	System Start State of Charge Watt-hours	7.065	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.25	
	Average System Voltage	355.04	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	6.49	
	Drive Trace Energy Economy Rating	-0.272	
	Drive Trace Inertia Work Ratio Rating	7.843	
	Formaldehyde	0	
	Integrated Amp-hours	37.83	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	Particulate Matter	0	
	System End State of Charge Watt-hours	13.906	
	System Start State of Charge Watt-hours	10.494	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.25	
	Average System Voltage	359.29	
	CH4 - Methane	0	
	Carbon Monoxide	0.34	
	Carbon dioxide	278.17	
	Carbon-Related Exhaust Emissions	279	
	Drive Trace Absolute Speed Change Rating	-0.09	
	Drive Trace Energy Economy Rating	-0.899	
	Drive Trace Inertia Work Ratio Rating	-0.006	
	Formaldehyde	0	
	Integrated Amp-hours	37.11	
	Manufacturer Fuel Economy	30.85	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0.02	
	Non-methane organic gases	0.022	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	280	
	Particulate Matter	0.00034	
	System End State of Charge Watt-hours	13.649	
	System Start State of Charge Watt-hours	13.906	
	Total Hydrocarbon	0.02	

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.24	
	Average System Voltage	359.18	
	CH4 - Methane	0	
	Carbon Monoxide	0.23	
	Carbon dioxide	249.68	
	Carbon-Related Exhaust Emissions	250	
	Drive Trace Absolute Speed Change Rating	-1.18	
	Drive Trace Energy Economy Rating	-1.196	
	Drive Trace Inertia Work Ratio Rating	-1.415	
	Formaldehyde	0	
	Integrated Amp-hours	37.01	
	Manufacturer Fuel Economy	34.4	
	Nitrogen Oxide	0	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	251	
	Particulate Matter	0.00026	
	System End State of Charge Watt-hours	13.602	
	System Start State of Charge Watt-hours	13.649	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #7

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Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
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Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-9YASH-24 / 1	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	RPRXT03.0CH6	Original Evaporative/Refueling Family	RPRXR0176REH
Original Test Vehicle Model Year	2024		

Vehicle Model

Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Cayenne S E-Hybrid
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
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	0	Odometer Correction Factor	1
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	1	Air Aspiration Device Configuration	Single
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)	5549	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	6878	N/V Ratio	24
Axle Ratio	3.21		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

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	56.09	0.31187	0.028501	-0.097	0.32312	0.025637	19.1

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Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10084526	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	11/29/2023	Fuel	Gasoline
Fuel Batch ID	HF0437	Fuel Calibration Number	420
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4257	Odometer Units	M
4WD Test Dyno	Yes	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	492.79	--
FE BAG 1 (Bag 1 Fuel Economy)	18.05	18.05
CO2 BAG 2 (Bag 2 Carbon Dioxide)	263.02	--
FE BAG 2 (Bag 2 Fuel Economy)	33.92	33.92
CO2 BAG 3 (Bag 3 Carbon Dioxide)	387.91	--
FE BAG 3 (Bag 3 Fuel Economy)	22.96	22.96
CO2 BAG 4 (Bag 4 Carbon Dioxide)	252.45	--
FE BAG 4 (Bag 4 Fuel Economy)	35.33	35.33
METHANE (CH4 - Methane)	0.0025	--
CO (Carbon Monoxide)	0.2968	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.2408	--
DT-EER (Drive Trace Energy Economy Rating)	-1.5747	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.6032	--
MFR FE (Manufacturer Fuel Economy)	26.06	26.06
NOX (Nitrogen Oxide)	0.0052	--
N2O (Nitrous Oxide)	0.0009	--
HC-NM (Non-methane Hydrocarbon)	0.0138	--
NMOG (Non-methane organic gases)	0.0142	--
PM (Particulate Matter)	0.0021	--
HC-TOTAL (Total Hydrocarbon)	0.0163	--

Certification Summary Information Report

Test Group		VPRXJ03.0HV6			Evaporative/Refueling Family				VPRXR0176REH			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		343		343						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		341.88		--						
Manufacturer Test Comments		Cayenne S E-Hybrid (V6 PHEV, blended); CS UDDS E0; for fuel economy/GHG; Porsche Test Number 20231129TC201										
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	0.0025	--	--	--	0.0059	--	0.008	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0009	--	--	--	0.0023	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.3	--	--	--	0.09	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	343	--	--	--	0	--	343	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0142	--	1.1	--	0.0044	--	0.019	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0194	--	1.1	--	--	--	0.033	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0052	--	--	--	0.0093	--	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0021	--	--	--	0	--	0.002	0.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0025	--	--	--	0.0059	--	0.008	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.0009	--	--	--	0.0023	--	0.003	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.3	--	--	--	0.09	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0142	--	1.1	--	0.0044	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0194	--	1.1	--	--	--	0.033	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0052	--	--	--	0.0093	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0021	--	--	--	0	--	0.002	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	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10084527	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	11/29/2023	Fuel	Gasoline
Fuel Batch ID	HF0437	Fuel Calibration Number	420
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW Test Center California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4272	Odometer Units	M
4WD Test Dyno	Yes	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
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.0018	--	
CO (Carbon Monoxide)	0.2385	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.9453	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.8162	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.254	--	
MFR FE (Manufacturer Fuel Economy)	32.46	32.46	
NOX (Nitrogen Oxide)	0.0008	--	
N2O (Nitrous Oxide)	0.0001	--	
HC-NM (Non-methane Hydrocarbon)	0.0052	--	
NMOG (Non-methane organic gases)	0.0054	--	
PM (Particulate Matter)	0.0006	--	
HC-TOTAL (Total Hydrocarbon)	0.007	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	275	274	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	274.43	--	
Manufacturer Test Comments	Cayenne S E-Hybrid (V6 PHEV, blended); CS Hwy E0; for FE/GHG; Porsche Test Number 20231129TC202 FEDV1		

Certification Summary Information Report

Test Group		VPRXJ03.0HV6			Evaporative/Refueling Family					VPRXR0176REH		
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	274	--	--	--	0	--	274	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0054	--	1.1	--	0.0044	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0062	--	1.1	--	--	--	0.02	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0008	--	--	--	0.0093	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0054	--	1.1	--	0.0044	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0062	--	1.1	--	--	--	0.02	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0008	--	--	--	0.0093	--	0.01	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	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
Fuel Properties			
Fuel Batch ID	HF2042	Fuel Calibration Number	337
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/29/2022
Fuel Batch Calibration Effective Date	03/29/2022	Fuel Batch Calibration Ineffective Date	03/31/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17890
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.821	Weight Fraction CO2	--
Fuel Batch ID	HF2043	Fuel Calibration Number	20
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	10/30/2020
Fuel Batch Calibration Effective Date	10/30/2020	Fuel Batch Calibration Ineffective Date	10/30/2024
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 (%)	10	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	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	HF0437	Fuel Calibration Number	420
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	07/06/2023
Fuel Batch Calibration Effective Date	07/06/2023	Fuel Batch Calibration Ineffective Date	07/31/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
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)	18591
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		VPRXJ03.0HV6			Evaporative/Refueling Family		VPRXR0176REH		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 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	--	--	--	--	--	--	0.09	999.9
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0044	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 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	--	--	--	--	--	--	0.0059	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0023	0.010
150,000 miles	CO	--	--	--	--	--	--	0.09	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0.09	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0044	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.0137	0.070
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0.0137	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group	VPRXJ03.0HV6				Evaporative/Refueling Family			VPRXR0176REH	
Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDT4 (ALVW > 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	--	--	--	--	--	--	0.0059	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0023	0.010
150,000 miles	CO	--	--	--	--	--	--	0.09	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0.09	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.9
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0044	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.0137	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.1	--	--	--	0.0137	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDT4 (ALVW > 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	--	--	1.1	--	--	--	0.0044	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.0137	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999

Certification Summary Information Report

Test Group		VPRXJ03.0HV6			Evaporative/Refueling Family			VPRXR0176REH	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 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	--	--	--	--	--	--	0.09	999.9
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0044	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 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	--	--	1.1	--	--	--	0.0044	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.0137	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 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	--	--	--	--	--	--	0.09	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.0038	0.3

Certification Summary Information Report

Test Group		VPRXJ03.0HV6			Evaporative/Refueling Family			VPRXR0176REH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 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
4,000 miles	CO	--	--	--	--	--	--	0.09	999.9
150,000 miles	NMOG	--	--	--	--	--	--	0.0044	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 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
4,000 miles	CO	--	--	--	--	--	--	0.09	999.9
150,000 miles	NMOG	--	--	--	--	--	--	0.0044	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0093	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 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	--	--	--	--	--	--	0.09	12.5

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group		VPRXJ03.0HV6		Evaporative/Refueling Family		VPRXR0176REH	
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.005		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.003		
Evaporative/Refueling Family		VPRXR0176REH		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		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
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		VPRXR0176REH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0067		

Certification Summary Information Report

Test Group		VPRXJ03.0HV6		Evaporative/Refueling Family		VPRXR0176REH	
Evaporative/Refueling Family		VPRXR0176REH		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	0.005		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0067		
Evaporative/Refueling Family		VPRXR0176REH		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	--	0.500	0.003		

Certification Summary Information Report

Test Group		VPRXJ03.0HV6	Evaporative/Refueling Family	VPRXR0176REH
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		VPRXJ03.0HV6	Evaporative/Refueling Family		VPRXR0176REH
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	