

# PORSCHE

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**Application for Certification:** Initial Part 1

**Model Year:** 2027

**Durability Group:** VPRXGPGNNCV6

**Test Group:** VPRXJ03.0CV6

**Evaporative/Refueling Family(ies):** VPRXR0176RED  
VPRXR0190RP7

**Certification Summary Information Report Number(s):** CSI-VPRXJ03.0CV6-VPRXR0176RED  
CSI-VPRXJ03.0CV6-VPRXR0190RP7

**Durability Group Description:** Four Stroke, Otto Cycle, Gasoline-Fueled Direct Injection, Unheated Monolith Ceramic Catalyst

**Test Group Description:** 3.0 Liter 6-Cylinder LDT  
2.9 Liter 6-Cylinder PC

**Applicable Standards:** EPA Exhaust: BIN 70, INT-TIER 4  
CARB Exhaust: ULEV 70  
EPA Evap: Tier 3  
CARB Evap: LEV IV

**Carlines Covered:** Cayenne  
Cayenne Coupe  
Panamera  
Panamera 4

**Vehicles Tested:** Exhaust: ECFE-9YA-AT-24  
Evap: EC-9YA-AT-24  
Evap: ECFE-972TH-25

**Agency Response Requested By:** June 8, 2026

**Special Instructions:** N/A

**For Questions Contact:** emissions@porsche.us

# PORSCHE

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## Section 1~Correspondence and Communications

Persons Authorized to  
Contact Agencies:

Regulatory Affairs  
Porsche Cars North America, Inc.  
One Porsche Drive  
Atlanta, Georgia 30354  
E-mail: [emissions@porsche.us](mailto:emissions@porsche.us)

## Section 2~Durability Group Description

**Durability Group Name:** VPRXGPGNNCV6

**Combustion Cycle:** 4-stroke otto

**Engine Type:** 6-cylinder, v-shaped arrangement

**Fuel Used:** gasoline

**Basic Fuel Metering System:** direct injection

**Catalyst Construction:** Refer to Section 16.02

**Catalyst Type:** Refer to Section 16.02

**Model(s):**

Cayenne, Panamera
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**Catalyst Primary and Secondary Bricks:**

**Precious Metal Composition, Primary:**

**Precious Metal Composition, Secondary:**

**Precious Metal Loading, Primary (g):**

**Precious Metal Loading, Secondary (g):**

**Number of cans (lines):**

**Total Precious Metal Loading (g):**

Refer to Section 16.02
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**Particulate Filter:** Refer to Section 16.02

	<u>GS</u>	<u>% of Max GS</u>
Cayenne, Panamera	Refer to Section 16.02	

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## Section 3~Evaporative / Refueling Family Description

### Evaporative/Refueling Families

Please refer to Section 3 of the LDT Common Section for a detailed description of this Evaporative/ORVR system.

<b>Family Name</b>	<b>VPRXR0176RED</b>
<b>Carryover Family</b>	TPRXR0176RED
<b>Models Covered</b>	Cayenne Series (V6 and V8, non-hybrid)
<b>In-Use Performance</b>	To date, no Porsche vehicle ORVR systems have exhibited problems in the field.
<b>ORVR Family: Carryover</b>	Carried over ORVR family originally approved by EPA on 10/16/2002  (1) No substantial changes have been made from the previously certified system (2) Porsche is not aware of any in-use problems with this system as of this time (3) Please refer to the Porsche LDV/LDT Common Section documentation for the ORVR system description.

## Section 3~Evaporative / Refueling Family Description

### Evaporative/Refueling Families

Please refer to Section 3 of the LDV Common Section for a detailed description of this Evaporative/ORVR system.

<b>Family Name</b>	VPRXR0190RP7
<b>Carryover Family</b>	TPRXR0190RP7
<b>Models Covered</b>	Panamera
<b>In-Use Performance</b>	To date, no Porsche vehicle ORVR systems have exhibited problems in the field.
<b>ORVR Family</b>	Carried over ORVR family originally approved by EPA on 10/16/2002  (1) No substantial changes have been made from the previously certified system (2) Porsche is not aware of any in-use problems with this system as of this time

## Section 4~Durability Procedure Description

### Exhaust / Evaporative Deterioration

Based on Porsche's engineering judgment, all the vehicles described in this Application for Certification comply with all applicable useful life standards.

#### Exhaust Deterioration Factors (g/mile):

Method: Porsche SBC

**Cayenne**

<u>Basis</u>	<u>NMOG</u>	<u>NOx</u>	<u>NMOG + NOx</u>	<u>CO</u>	<u>HCHO</u>	<u>N2O</u>	<u>CH4</u>	<u>PM</u>	<u>NMHC</u>
150K *	0.0082	0.016	0.024	0.26	0.0001	0.0010	0.0034	0	0.0075

Method: Porsche SBC

**Panamera**

<u>Basis</u>	<u>NMOG</u>	<u>NOx</u>	<u>NMOG + NOx</u>	<u>CO</u>	<u>HCHO</u>	<u>N2O</u>	<u>CH4</u>	<u>PM</u>	<u>NMHC</u>
150K *	0.0106	0.0010	0.0116	0.29	0.0003	0.0002	0.0058	0.0001	0.0096

\* N2O and CH4 basis is 120K

#### Evaporative Deterioration Factors:

##### **VPRXR0176RED**

Audi ADP

<u>Basis</u>	<u>2-day</u>	<u>3-day</u>	<u>RL</u>	<u>ORVR</u>
150K	0.0108	0.0140	0.0000	0.007

##### **VPRXR0190RP7**

Porsche SBC

<u>Basis</u>	<u>2-day</u>	<u>3-day</u>	<u>RL</u>	<u>ORVR</u>
150K	0.0000	0.0000	0.000	0.001

## Section 5~Test Group Description

<b>Durability Group Name:</b>	VPRXGPGNNCV6
<b>Test Group Name:</b>	VPRXJ03.0CV6
<b>Certification Summary Information Reports:</b>	CSI-VPRXJ03.0CV6-VPRXR0176RED CSI-VPRXJ03.0CV6-VPRXR0190RP7
<b>No. Cylinders and Arrangement</b>	6-cylinder, v-shaped arrangement
<b>Engine Displacement:</b>	3.0 Liter 2.9 Liter
<b>Vehicle Classe(s):</b>	LDT3 PC
<b>NLEV Participation:</b>	No
<b>Emissions Standards Class:</b>	Federal: BIN 70, INT-TIER 4 California: ULEV 70
<b>Applicable Emissions Standards:</b>	Please refer to the Certification Summary Information Report in Section 7
<b>Hybrid Description:</b>	N/A

## Section 6~Test Vehicle Description

### 6.01>> Test Vehicles

	Test Vehicle ID	Vehicle/Config Purpose
<b>Certification Test Vehicles:</b>	ECFE-9YA-AT-24	Exhaust Emissions
	EC-9YA-AT-24	Evaporative Data (Cayenne)
	FE-972-AT-24	Evaporative Data (Panamera)
<b>Durability Test Vehicles:</b>	DDV-9YA-AT-24	Exhaust Durability
	DF-972-AT-24	Exhaust Durability

Test Vehicle Information	Exhaust	Evaporative	Evaporative
Test Group Name	RPRXT03.0CV6	RPRXT03.0CV6	RPRXV02.9PV6
Evaporative Family Name	RPRXR0176RED	RPRXR0176RED	RPRXR0190RP7
Test Vehicle ID	ECFE-9YA-AT-24	EC-9YA-AT-24	FE-972-AT-24
Test Vehicle Model Name	Cayenne	Cayenne	Panamera
Engine Code	DCB	DCB	CSZ
Displacement (L)	3.0	3.0	3.0
Rated Engine Power (HP)	348	348	348
Transmission	AT	AT	AT
Equivalent Test Weight (ETW) (lbs)	5250	5250	4750
Gross Vehicle Weight (lbs)	6250	6217	5523
Axle Ratio	3.21	3.21	3.36
Drive Mode for Testing	AWD	AWD	RWD
SIL usage	No	No	No
Start - Stop	Yes	Yes	Yes
Aged components	No	No	No
Fuel	Gasoline	Gasoline	Gasoline
Drive Source	ICE	ICE	ICE
Fuels stored separately or together	N/A	N/A	N/A
Fuels combusted separately or together	N/A	N/A	N/A
RESS type	N/A	N/A	N/A
Off-board charge capable	N/A	N/A	N/A
Regenerative Braking	N/A	N/A	N/A

*Note: blank cells or tables are intentionally blank*

## Section 6~Test Vehicle Description

### 6.02>> Test Parameters, Instructions

<b>Carlines</b>		Cayenne and Panamera		
<b>Engine Starting Procedures</b>		1) Depress brake pedal 2) Turn ignition key clockwise or press button to crank (do not depress accelerator pedal), release key/button as soon as engine starts 3) If engine fails to start within 15 seconds, turn ignition key to the OFF position or depress button, wait 10 seconds, then restart		
<b>Transmission Shift Schedules, Mode</b>	<b>Transmission</b>	Automatic, 8-speed		
	<b>1st to 2nd</b>	N/A		
	<b>2nd to 3rd</b>	N/A		
	<b>3rd to 4th</b>	N/A		
	<b>4th to 5th</b>	N/A		
	<b>5th to 6th</b>	N/A		
	<b>6th to 7th</b>	N/A		
	<b>7th to 8th</b>	N/A		
	<b>SS II.D.</b>	FTP – FTA; HWFE - HWA		
	<b>Transmission Mode</b>	Auto Mode: operate in "D" and auto mode only. Do not shift manually		
<b>Selectable modes</b>	<b>Start-stop</b>	Leave in default mode -- indicator on center console should not be illuminated		
	<b>Other (Sport, Wet, etc.)</b>	Leave all selectable mode buttons in default		
<b>Other</b>	<b>Cooling fan</b>	One road-speed fan, centered upright, front of vehicle		
	<b>Body apertures</b>	Leave all apertures closed		
	<b>Test lab considerations</b>	Porsche can supply instructions separately for E-Brake, Dyno Mode, Soak Area, and Canister loading		

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## Section 6~Test Vehicle Description

### 6.03>> Dynamometer Parameters

Vehicle ID	Trans	ETW [lbf]	Single Roll Coefficients (target)		
			A [lbf]	B [lbf/mph]	C [lbf/mph <sup>2</sup> ]
ECFE-9YA-AT-24	AT	5250	44.87	0.2634	0.02854
EC-9YA-AT-24	AT	5250	42.76	0.4385	0.02611
FE-972-AT-24	AT	4750	37.45	0.5333	0.01900

Vehicle ID	Trans	ETW [lbf]	Single Roll Coefficients (set)		
			A [lbf]	B [lbf/mph]	C [lbf/mph <sup>2</sup> ]
ECFE-9YA-AT-24	AT	5250	1.05	0.4200	0.02377
EC-9YA-AT-24	AT	5250	-11.19	0.5178	0.02326
FE-972-AT-24	AT	4750	22.61	0.28745	0.01955

Note: Porsche's RLHP measurement and calculation methods are available upon request.

Note: blank cells or tables are intentionally blank.

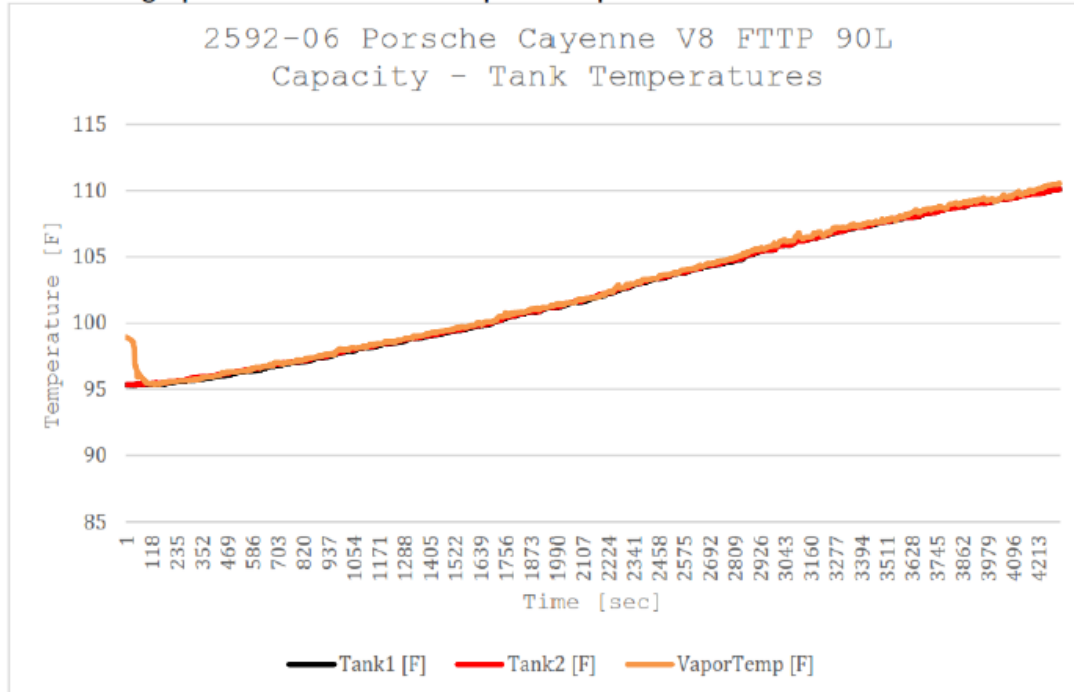
## Section 6~Test Vehicle Description

### 6.04>> FTTP Summary

<b>Carlines</b>	Cayenne	
Evaporative Testing Parameters	Canister Loading	Canister Working Capacity =176g
	FTTP REPORT ID *	150RED-2592-06

### TEST RESULTS

The graph below shows the temperature profile for the duration of the test.

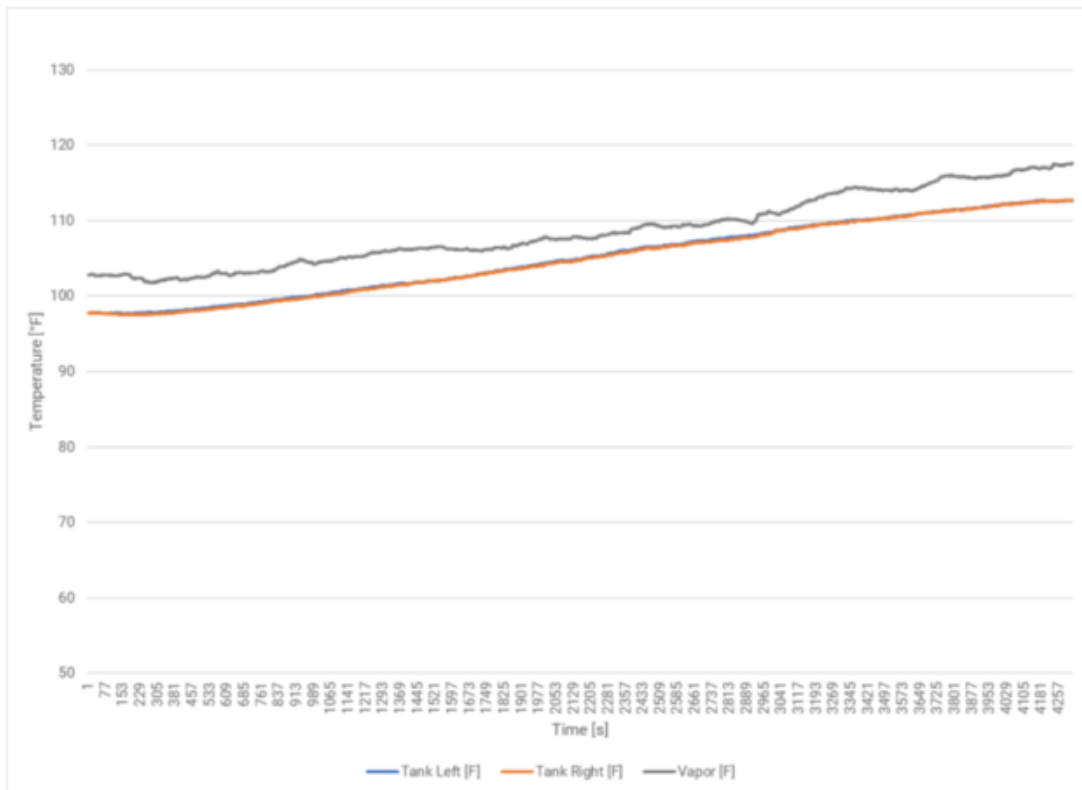


\* Full report is available for review

## Section 6~Test Vehicle Description

### 6.04>> FFTP Summary

<b>Carlines</b>	Panamera, all models except hybrids, 90 L tank	
Evaporative Testing Parameters	Canister Loading	Canister Working Capacity = 190g
	FFTP REPORT ID *	23051648



\* Full report is available for review

## **Section 6~Test Vehicle Description**

### **6.05>> Durability Test Vehicle(s)**

Available by request.

## Section 7~Test Results

### 7.01>> Exhaust / Evaporative Standards

#### Exhaust Standards:

Federal: **BIN 70, INT-TIER 4**

California: **ULEV 70**

Test Cycle	Constituent	Certification Standard (g/mi)		High Altitude (g/mi)	In-Use Standard (g/mi)	
		Federal	California		Federal	California
FTP	NMOG+NOx	0.070	0.070	0.105	0.070	0.070
	CO	1.7	1.7	1.7	1.7	1.7
	HCHO	0.004	0.004	0.004	0.004	0.004
	PM	0.003	0.003	0.003	0.003	0.003
	CH4	0.030	0.030	0.030	0.030	0.030
	N2O	0.010	0.010	0.010	0.010	0.010
HFET	NMOG+NOx	0.070	0.070	0.070	0.070	0.070
SFTP	Composite NMOG+NOx	0.080	--	0.080	0.080	--
	Composite CO	4.2	--	4.2	4.2	--
	Fleet Average NMOG+NOx	0.050	--	--	0.050	--
US06	NMOG+NOx	--	0.070	--	--	0.084
	CO	--	9.6	--	--	--
	PM	0.006	0.006	--	0.010	0.010
SC03	NMOG+NOx	--	0.050	--	--	--
	CO	--	1.7	--	--	--
Cold CO	CO	10.0	10.0	--	10.0	10.0
	NMHC	0.3	0.3	--	0.3	0.3
50 Deg F	NMOG+NOx	--	0.100	--	--	--
	CO	--	1.7	--	--	--
	HCHO	--	0.016	--	--	--

-- = N/A

#### Evaporative Standards: Cayenne

Test Cycle	Constituent	Certification Standard		High Altitude	In-Use Standard	
		Federal	California		Federal	California
2-Day	HC-EQUIV (g/test)	0.450	0.450	1.10	0.450	0.450
3-Day	HC-EQUIV (g/test)	0.450	0.450	1.10	0.450	0.450
Running Loss	HC-EQUIV (g/mi)	0.05	0.05	0.05	0.05	0.05
ORVR	HC-EQUIV (g/gal)	0.20	0.20	0.20	0.20	0.20
BETP	HC-EQUIV (g/test)	0.020	0.020	--	--	--

## Section 7~Test Results

### 7.01.01>> Exhaust / Evaporative Standards

#### Evaporative Standards: Panamera

Test Cycle	Constituent	<u>Certification Standard</u>		<u>High Altitude</u>	<u>In-Use Standard</u>	
		Federal	California		Federal	California
2-Day	HC-EQUIV (g/test)	0.400	0.400	0.85	0.400	0.400
3-Day	HC-EQUIV (g/test)	0.400	0.400	0.85	0.400	0.400
Running Loss	HC-EQUIV (g/mi)	0.05	0.05	0.05	0.05	0.05
ORVR	HC-EQUIV (g/gal)	0.20	0.20	0.20	0.20	0.20
BETP	HC-EQUIV (g/test)	0.020	0.020	N/A	N/A	N/A

## Section 7-Test Results

### 7.02>> GHG Compliance Statements / Certification Tests

GHG in-use standards: Please refer to the VW Group's final GHG Report for this Model Year.

Start-Stop: For all models in this test group, the Auto Start-Stop system defaults to ON. Therefore, in-use tests should be conducted in the Default mode, and no weighting of test data is required for demonstrating compliance with in-use GHG standards.

N<sub>2</sub>O and CH<sub>4</sub>: Please see attestations of GHG fleet averaging in Section 8.02. Porsche has elected to comply with N<sub>2</sub>O and CH<sub>4</sub> standards for all test groups of the following model year:

2027
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### Certification Tests

<b>Exhaust:</b>			
RPRX10079348	FTP		
RPRX10079349	HFET		
RPRX10079350	US06		
RPRX10079377	SC03		
RPRX10079376	Cold CO		
RPRX10091720	50 F		

<b>Evaporative:</b>		(VPRXR0176RED)
RPRX10079772		2-Day Evap
RPRX10079773		3-Day Evap
RPRX10079775		Running Loss
RPRX10079774		ORVR
MPRX10065421		BETP

<b>GHG Compliance:</b>	
RPRX10079515	FTP
RPRX10079512	HFET

<b>Evaporative:</b>		(VPRXR0190RP7)
RPRX10082417		2-Day Evap
RPRX10082438		3-Day Evap
RPRX10082462		Running Loss
RPRX10082434		ORVR
RPRX10082495		BETP

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## **Section 7-Test Results**

### **7.03>> CSI Report, Evap Family VPRXR0176RED**

The Certification Summary Information (CSI) report begins on the following page.

## Certification Summary Information Report

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

## Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	03/23/2026 03:32:27 PM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	Plastic				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	No	<b>Air Intake System Vapor Storage Device Description</b>	--				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	176	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	1	<b>Bleed Canister Total Working Capacity (grams)</b>	176				
<b>Mfr Evaporative/Refueling Family Comments</b>	Evap system for Cayenne; all ICE, non-hybrid models						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	Yes						
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>				
VPRXR0176RED-001	50 State	0.02	--				
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
Porsche AG	1 - Porsche	405 - Cayenne Coupe	Federal	All Wheel Drive	Semi-Automatic	8	Yes
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
<b>Engine Description</b>							
<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--				
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--				
<b>Engine Block Arrangement</b>	V-shaped engine	<b>Mfr Engine Block Arrangement Description</b>	--				
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	0W40				
<b>Number of Cylinders/Rotors</b>	6	<b>Mechanically Variable Compression Ratio Indicator</b>	N				

## Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED	
<b>After Treatment Device(s) (ATD)</b>				
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
<b>Mfr After Treatment Device (ATD) Comments</b>				
--				
<b>Direct Ozone Reduction (DOR) Device</b>				
Not Equipped				
<b>Mfr Emission Control Device Comments</b>				
TWC/DFI/WR-HO2S/HO2S/1TC/2CAC (Cayenne 3.0 L); 2TWC(2)/DFI/2WR-HO2S/2HO2S/2TC/2CAC (Panamera 2.9 L)				
<b>Engine Configuration Number 1</b>				
<b>Engine Displacement (liters)</b>	3.0	<b>Engine Rated Horsepower</b>	348	
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2	
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	1	
<b>Air Aspiration Device Configuration</b>	Single	<b>Charge Air Cooler Type</b>	Air	
<b>Air Aspiration Drive Method(s)</b>	Mechanical			
<b>Cylinder Deactivation</b>	No			
<b>Cylinder Deactivation Description</b>	--			
<b>Variable Valve Timing</b>	Yes			
<b>Variable Valve Timing System Description</b>	VarioCam			
<b>Variable Valve Lift?</b>	Yes			
<b>Variable Valve Lift System Description</b>	VarioCam Plus			
<b>Number of Knock Sensors</b>	1	<b>Number of Air/Fuel Sensors</b>	2	
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--	
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--	
<b>Mfr Air/Fuel Sensor Comments</b>	--			
<b>Exhaust Gas Recirculation</b>	No	<b>Cooled Exhaust Gas Recirculation</b>	No	
<b>EGR Type</b>	--	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--	
<b>Closed Loop Air Injection System</b>	No			
<b>Air Injection Type</b>	--	<b>Air Injection Type if 'Other'</b>	--	
<b>Mfr Engine Configuration Comments</b>	engine for Cayenne and Cayenne Coupe			

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Engine Configuration Number 2</b>			
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		

<b>Official Test Numbers</b>										
<b>Test Group</b>						<b>EPA City</b>	<b>EPA City</b>	<b>EPA</b>	<b>EPA</b>	<b>CREE</b>
<b>Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>	<b>Cold CO</b>	<b>Highway</b>	<b>Litmus</b>	<b>Litmus</b>	<b>Highway</b>	<b>Highway</b>	<b>Weighting</b>
Gasoline	RPRX91005432	RPRX91005430	RPRX10079377	RPRX10079376	RPRX91005431	Value	Threshold	Value	Threshold	Factor
						--	228.2	--	286.1	--

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

## Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED						
<b>Emission Data Vehicle Information</b>									
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								
<b>Vehicle Model</b>									
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Cayenne						
<b>Leak Family Details</b>									
Leak Family Identifier	--	Leak Family Name	--						
<b>Drive Sources and Fuel System Details</b>									
	<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
<b>Dynamometer Coefficients:</b>								
		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

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

**Test Results**

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

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

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	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

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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	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

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

## Test Results

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

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

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	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

<b>Test #</b>	<b>RPRX10079772</b>	<b>Test Procedure</b>	<b>23 - 2-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	RPRX10079720	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	01/20/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	2650	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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	0.450	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2209	0.0108	0.232	0.450	Pass

### Certification Summary Information Report

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

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.1940	0.014	0.208	0.450	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1940	0.014	0.208	0.450	Pass

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
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<b>Test #</b>	<b>RPRX10079774</b>	<b>Test Procedure</b>	<b>24 - Federal fuel refueling test (ORVR)</b>
<b>Exhaust Test # for this Evap Test</b>	RPRX10079746	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/02/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	6967	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.016	0.007	0.02	0.20	Pass

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Test #</b>	<b>RPRX10079775</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	RPRX10079745	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/17/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	4466	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--	<b>Road Speed Fan Usage</b>	--
<b>Drive Cycle Speed Tolerance Criteria</b>	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)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.000	0	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0	0.00	0.05	Pass

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
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**Emission Data Vehicle Information**

<b>Vehicle ID / Configuration</b>	ECFE-9YA-AT-24 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0
<b>Original Test Group Name</b>	RPRXT03.0CV6	<b>Original Evaporative/Refueling Family</b>	RPRXR0176RED
<b>Original Test Vehicle Model Year</b>	2024		
<b>Vehicle Model</b>			
<b>Represented Test Vehicle Make</b>	Porsche	<b>Represented Test Vehicle Model</b>	Cayenne

**Leak Family Details**

<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--
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**Drive Sources and Fuel System Details**

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--
<b>Fuel Cell Indicator</b>	--	<b>Rechargeable Energy Storage System, if 'Other'</b>	--
<b>Rechargeable Energy Storage System</b>	--		
<b>Off-board charge Capable Indicator</b>	--		
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	0.9994
<b>Odometer Correction Sign</b>	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
<b>Odometer Correction Units</b>	Miles		
<b>Engine Code</b>	DCB	<b>Rated Horsepower</b>	348
<b>Displacement (liters)</b>	3	<b>Air Aspiration Method, if 'Other'</b>	
<b>Air Aspiration Method</b>	Turbocharged	<b>Air Aspiration Device Configuration</b>	Parallel
<b>Number of Air Aspiration Devices</b>	2	<b>Drive Mode While Testing</b>	All Wheel Drive
<b>Charge Air Cooler Type</b>	Air	<b>Aged Emission Components</b>	4,000 (mi)
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Equivalent Test Weight (pounds)</b>	5250
<b>Curb Weight (lbs)</b>	4859	<b>N/V Ratio</b>	22.9
<b>GVWR (lbs)</b>	6250		
<b>Axle Ratio</b>	3.2	<b># of Transmission Gears</b>	8
<b>Transmission Type</b>	Semi-Automatic	<b>Creeper Gear</b>	No
<b>Transmission Lockup</b>	Yes		

## Certification Summary Information Report

Test Group	VPRXJ03.0CV6			Evaporative/Refueling Family			VPRXR0176RED
<b>Dynamometer Coefficients:</b>							
	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Test #</b>	<b>RPRX10079376</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	29 - Cold CO E10 Premium Gasoline (Tier 3)
<b>Test Date</b>	02/11/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	TCC10	<b>Fuel Calibration Number</b>	20
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4765	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	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

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

<b>Test Group</b>	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	0.0000	--	--	--	0.0003	--	0.000	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	0.0000	--	--	--	0.0003	--	0.000	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Test #</b>	<b>RPRX10091720</b>	<b>Test Procedure</b>	<b>52 - Fed. fuel 50 F exh.</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/03/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF2042	<b>Fuel Calibration Number</b>	216
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4520	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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	--	1.10	--	0.0082	--	0.019	99.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0297	--	1.10	--	--	--	0.054	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0193	--	--	--	0.0160	--	0.035	99.999	Pass

**Certification Summary Information Report**

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Test #</b>	<b>RPRX91005432</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/28/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	27626	<b>Fuel Calibration Number</b>	2
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5092	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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			--					
<b>Manufacturer Test Comments</b>		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	--	0.000	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	--	--	--	0.050	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	--	0.000	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	--	--	--	0.050	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Test #</b>	<b>RPRX10079512</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	01/27/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF0437	<b>Fuel Calibration Number</b>	314
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4310	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Test #</b>	<b>RPRX91005431</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/28/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	27626	<b>Fuel Calibration Number</b>	2
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5104	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>METHANE (CH4 - Methane)</b>	0.0003828	--
<b>CO (Carbon Monoxide)</b>	0.041138	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	3.5003059	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	0.4022212	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	4.3384905	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	31.1293716	--
<b>NOX (Nitrogen Oxide)</b>	0.004453	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.0002156	--
<b>NMOG (Non-methane organic gases)</b>	0.0002221	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.0005897	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	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

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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
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

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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Test #</b>	<b>RPRX10079377</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/02/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF2042	<b>Fuel Calibration Number</b>	216
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4505	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>HF2042</b>	<b>Fuel Calibration Number</b>	<b>216</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	08/24/2021
<b>Fuel Batch Calibration Effective Date</b>	08/24/2021	<b>Fuel Batch Calibration Ineffective Date</b>	08/24/2026
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.748
<b>Fuel Ethanol Volume Percent (%)</b>	10	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18000
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.825	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>W22</b>	<b>Fuel Calibration Number</b>	<b>24</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	01/19/2023
<b>Fuel Batch Calibration Effective Date</b>	01/19/2023	<b>Fuel Batch Calibration Ineffective Date</b>	01/31/2028
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.741
<b>Fuel Ethanol Volume Percent (%)</b>	10.1	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17962
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.834	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>27626</b>	<b>Fuel Calibration Number</b>	<b>2</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	12/11/2018
<b>Fuel Batch Calibration Effective Date</b>	12/11/2018	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.742
<b>Fuel Ethanol Volume Percent (%)</b>	9.9	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18001
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.825	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>HF0437</b>	<b>Fuel Calibration Number</b>	<b>314</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	02/09/2023
<b>Fuel Batch Calibration Effective Date</b>	02/09/2023	<b>Fuel Batch Calibration Ineffective Date</b>	02/28/2026

## 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	0.743
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	--
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	--

**Certification Summary Information Report**

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
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**Consolidated List of Standards**

**Exhaust Standards**

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	1.10	--	--	--	0.0082	99.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0100	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.0160	99.999

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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

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

<b>Test Group</b>		VPRXJ03.0CV6			<b>Evaporative/Refueling Family</b>			VPRXR0176RED	
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert	
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-IV ULEV70	
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03	
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
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

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert	
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-IV ULEV70	
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE	
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
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

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert	
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 70	
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03	
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
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

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	Federal Tier 3 Bin 70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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

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

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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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**

<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	
<b>Test Procedure</b>	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0

<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	Federal
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap
<b>Test Procedure</b>	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.0108

<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	
<b>Test Procedure</b>	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	Federal
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap
<b>Test Procedure</b>	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED		
<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0
<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.0108
<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0
<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.014
<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0.014

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0176RED		
<b>Evaporative/Refueling Family</b>	VPRXR0176RED	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC	--	0.20	0.007

## Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0176RED
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
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		VPRXJ03.0CV6	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	
<b>Certification Region</b>					
CA	California + CAA Section 177 states		FA	Federal	
<b>Exhaust Emission Standard Level</b>					
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	

## Certification Summary Information Report

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				
<b>Transmission Type Code</b>					
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)		
<b>Drive System Code</b>					
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		
<b>Additional Terms and Acronyms</b>			
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

## **Section 7-Test Results**

### **7.04>> CSI Report, Evap Family VPRXR0190RP7**

The Certification Summary Information (CSI) report for this Test Group and second Evaporative Family combination begins on the following page.

## Certification Summary Information Report

<b>Manufacturer</b>	Porsche AG	<b>Manufacturer Code</b>	PRX						
<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7						
<b>Certificate Number</b>	--	<b>CARB Executive Order #</b>	--						
<b>Certificate Issue Date</b>	--	<b>Certificate Revision Date</b>	--						
<b>Certificate Effective Date</b>	--	<b>Conditional Certificate</b>	--						
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	04/20/2026 04:13:05 PM						
<b>Model Year</b>	2027								
<b>Test Group Information</b>									
<b>CSI Type</b>	New	<b>Running Change Reference Number</b>	--						
<b>GHG Exempt Status</b>	Not Exempt								
<b>Drive Sources and Fuel(s)</b>									
<b>Drive Source #1:</b>	Combustion Engine								
	<table border="1"> <thead> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> </thead> <tbody> <tr> <td>Gasoline</td><td>Spark Ignition Direct fuel injection</td><td>No</td></tr> </tbody> </table>			Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Gasoline	Spark Ignition Direct fuel injection	No
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Gasoline	Spark Ignition Direct fuel injection	No							
<b>Hybrid Indicator</b>	No								
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--						
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	--						
<b>Fuel Cell Indicator</b>	--	<b>EPA Vehicle Class</b>	LDV, LDT3						
<b>Federal Clean Fuel Vehicle</b>	No	<b>Federal Clean Fuel Vehicle Standard</b>	--						
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No						
<b>Durability Group Name</b>	VPRXGPGNNCV6	<b>Durability Group Equivalency Factor</b>	1						
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA, CA						
<b>Complies with HD GHG 2b/3 regulations?</b>	No								
<b>Introduction into Commerce Date</b>	--	<b>CAP2000 Conditional Certificate?</b>	N/A						
<b>Independent Commercial Importer?</b>	--	<b>Alternative Fuel Converter Certificate?</b>	--						
<b>SFTP Federal Composite Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	No						
<b>SFTP LEV-III Composite Compliance Indicator</b>	No								
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	VPRXJ03.0CV6						
<b>Test Group OBD Compliance Level</b>	Full - no deficiencies	<b>Number of Test Group OBD Deficiencies</b>	0						
<b>OBD Deficiencies Comments</b>	OBD approval E-26-102								
<b>Mfr Test Group Comments</b>	Cayenne, Cayenne Coupe, Panamera, Panamera 4; EDV testing performed in Drive mode.								
<b>Mfr Exhaust / Evap Standards Comments</b>	--								

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	03/23/2026 03:40:34 PM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	HDPE				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	No	<b>Air Intake System Vapor Storage Device Description</b>	--				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	190	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	--				
<b>Mfr Evaporative/Refueling Family Comments</b>	Evap system for all Panamera models (non-hybrids)						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	No						
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Models Covered by this Certificate</b>							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Porsche AG	1 - Porsche	605 - Panamera 4	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Porsche AG	1 - Porsche	600 - Panamera	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Porsche AG	1 - Porsche	600 - Panamera	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Porsche AG	1 - Porsche	605 - Panamera 4	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No

## Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	
<b>Engine Description</b>				
<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--	
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--	
<b>Engine Block Arrangement</b>	V-shaped engine	<b>Mfr Engine Block Arrangement Description</b>	--	
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	0W40	
<b>Number of Cylinders/Rotors</b>	6	<b>Mechanically Variable Compression Ratio Indicator</b>	N	
<b>After Treatment Device(s) (ATD)</b>				
<b>ATD Number</b>	<b>ATD Type</b>	<b>ATD Precious Metal</b>	<b>Substrate Material</b>	<b>Substrate Construction</b>
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
<b>Mfr After Treatment Device (ATD) Comments</b>				
--				
<b>Direct Ozone Reduction (DOR) Device</b>				
Not Equipped				
<b>Mfr Emission Control Device Comments</b>				
TWC/DFI/WR-HO2S/HO2S/1TC/2CAC (Cayenne 3.0 L); 2TWC(2)/DFI/2WR-HO2S/2HO2S/2TC/2CAC (Panamera 2.9 L)				
<b>Engine Configuration Number 1</b>				
<b>Engine Displacement (liters)</b>	3.0	<b>Engine Rated Horsepower</b>	348	
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2	
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	1	
<b>Air Aspiration Device Configuration</b>	Single	<b>Charge Air Cooler Type</b>	Air	
<b>Air Aspiration Drive Method(s)</b>	Mechanical			
<b>Cylinder Deactivation</b>	No			
<b>Cylinder Deactivation Description</b>	--			
<b>Variable Valve Timing</b>	Yes			
<b>Variable Valve Timing System Description</b>	VarioCam			
<b>Variable Valve Lift?</b>	Yes			
<b>Variable Valve Lift System Description</b>	VarioCam Plus			
<b>Number of Knock Sensors</b>	1	<b>Number of Air/Fuel Sensors</b>	2	
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--	
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--	
<b>Mfr Air/Fuel Sensor Comments</b>	--			
<b>Exhaust Gas Recirculation</b>	No	<b>Cooled Exhaust Gas Recirculation</b>	No	
<b>EGR Type</b>	--	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--	
<b>Closed Loop Air Injection System</b>	No			
<b>Air Injection Type</b>	--	<b>Air Injection Type if 'Other'</b>	--	
<b>Mfr Engine Configuration Comments</b>	engine for Cayenne and Cayenne Coupe			

**Certification Summary Information Report**

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Engine Configuration Number 2</b>			
<b>Engine Displacement (liters)</b>	2.9	<b>Engine Rated Horsepower</b>	348
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	2
<b>Air Aspiration Device Configuration</b>	Parallel	<b>Charge Air Cooler Type</b>	Air
<b>Air Aspiration Drive Method(s)</b>	Mechanical		
<b>Cylinder Deactivation</b>	No		
<b>Cylinder Deactivation Description</b>	--		
<b>Variable Valve Timing</b>	Yes		
<b>Variable Valve Timing System Description</b>	VarioCam		
<b>Variable Valve Lift?</b>	Yes		
<b>Variable Valve Lift System Description</b>	VarioCam Plus		
<b>Number of Knock Sensors</b>	1	<b>Number of Air/Fuel Sensors</b>	4
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--
<b>Air/Fuel Sensor # 3 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 3 Description</b>	--
<b>Air/Fuel Sensor # 4 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 4 Description</b>	--
<b>Mfr Air/Fuel Sensor Comments</b>	--		
<b>Exhaust Gas Recirculation</b>	No	<b>Cooled Exhaust Gas Recirculation</b>	--
<b>EGR Type</b>	--	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--
<b>Closed Loop Air Injection System</b>	--		
<b>Air Injection Type</b>	--	<b>Air Injection Type if 'Other'</b>	--
<b>Mfr Engine Configuration Comments</b>	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	VPRXR0190RP7						
<b>Emission Data Vehicle Information</b>									
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								
<b>Vehicle Model</b>									
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Cayenne						
<b>Leak Family Details</b>									
Leak Family Identifier	--	Leak Family Name	--						
<b>Drive Sources and Fuel System Details</b>									
	<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			VPRXR0190RP7
<b>Dynamometer Coefficients:</b>							
	Target Coefficients			Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10079376</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	29 - Cold CO E10 Premium Gasoline (Tier 3)
<b>Test Date</b>	02/11/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	TCC10	<b>Fuel Calibration Number</b>	20
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4765	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
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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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10079515</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	01/27/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF0437	<b>Fuel Calibration Number</b>	314
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4299	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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

<b>Test Group</b>	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0190RP7
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>
Carbon-Related Exhaust Emissions	397	397

<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
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	0.0000	--	--	--	0.0003	--	0.000	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	0.0000	--	--	--	0.0003	--	0.000	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10091720</b>	<b>Test Procedure</b>	<b>52 - Fed. fuel 50 F exh.</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/03/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF2042	<b>Fuel Calibration Number</b>	216
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4520	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

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

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	413.38	--

## Certification Summary Information Report

Test Group		VPRXJ03.0CV6		Evaporative/Refueling Family				VPRXR0190RP7				
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	--	1.10	--	0.0082	--	0.019	99.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0297	--	1.10	--	--	--	0.054	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0193	--	--	--	0.0160	--	0.035	99.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX91005432</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/28/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	27626	<b>Fuel Calibration Number</b>	2
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5092	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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					VPRXR0190RP7		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		415.1994934			--					
<b>Manufacturer Test Comments</b>		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	--	0.000	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	--	--	--	0.050	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	--	0.000	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	--	--	--	0.050	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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10079512</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	01/27/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF0437	<b>Fuel Calibration Number</b>	314
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4310	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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				VPRXR0190RP7		
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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX91005431</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/28/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	27626	<b>Fuel Calibration Number</b>	2
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5104	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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				VPRXR0190RP7		
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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10079350</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/02/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF2042	<b>Fuel Calibration Number</b>	216
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4489	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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				VPRXR0190RP7			
		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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX91005430</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/28/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	27626	<b>Fuel Calibration Number</b>	2
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5125	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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				VPRXR0190RP7		
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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10079377</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/02/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	HF2042	<b>Fuel Calibration Number</b>	216
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	VW Test Center California		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4505	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

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

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	436.47	--

**Manufacturer Test Comments**

CAYENNE BASE SC03 Test No. 20230202TC108

## Certification Summary Information Report

Test Group		VPRXJ03.0CV6				Evaporative/Refueling Family				VPRXR0190RP7		
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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
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**Emission Data Vehicle Information**

<b>Vehicle ID / Configuration</b>	FE-972-AT-24 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0
<b>Original Test Group Name</b>	RPRXV02.9PV6	<b>Original Evaporative/Refueling Family</b>	RPRXR0190RP7
<b>Original Test Vehicle Model Year</b>	2024		
<b>Vehicle Model</b>			
<b>Represented Test Vehicle Make</b>	Porsche	<b>Represented Test Vehicle Model</b>	Panamera

**Leak Family Details**

<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--
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**Drive Sources and Fuel System Details**

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--
<b>Fuel Cell Indicator</b>	--	<b>Rechargeable Energy Storage System, if 'Other'</b>	--
<b>Rechargeable Energy Storage System</b>	--		
<b>Off-board charge Capable Indicator</b>	--		
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	0.974
<b>Odometer Correction Sign</b>	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
<b>Odometer Correction Units</b>	Miles		
<b>Engine Code</b>	CSZ	<b>Rated Horsepower</b>	348
<b>Displacement (liters)</b>	2.9		
<b>Air Aspiration Method</b>	Turbocharged	<b>Air Aspiration Method, if 'Other'</b>	
<b>Number of Air Aspiration Devices</b>	2	<b>Air Aspiration Device Configuration</b>	Parallel
<b>Charge Air Cooler Type</b>	Air	<b>Drive Mode While Testing</b>	2-Wheel Drive, Rear
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)
<b>Curb Weight (lbs)</b>	4389	<b>Equivalent Test Weight (pounds)</b>	4750
<b>GVWR (lbs)</b>	5523	<b>N/V Ratio</b>	21.9
<b>Axle Ratio</b>	3.36		
<b>Transmission Type</b>	Automated Manual- Selectable (e.g. Automated Manual with paddles)	<b># of Transmission Gears</b>	8
<b>Transmission Lockup</b>	No	<b>Creep Gear</b>	No

**Dynamometer Coefficients:**

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	37.453	0.53329	0.018999	22.609	0.28745	0.019546	14.9

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
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**Emission Control Device Comments** --  
**Manufacturer Test Vehicle Comments** EVAP for Panamera; Internal vehicle ID: SE0112

<b>Test #</b>	<b>RPRX10082417</b>	<b>Test Procedure</b>	<b>23 - 2-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	RPRX10082411	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/04/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	6990	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.2384	--

**Manufacturer Test Comments** PANAMERA 2DD EVAP Test No. 23050183

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	0.2384	0	0.238	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2384	0	0.238	0.300	Pass

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10082438</b>	<b>Test Procedure</b>	<b>34 - Federal fuel 3-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	RPRX10082437	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/18/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	7080	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.2326	--

**Manufacturer Test Comments**

PANAMERA 3DD EVAP Test No. 23049159

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	0.2326	0	0.233	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2326	0	0.233	0.300	Pass

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10082434</b>	<b>Test Procedure</b>	<b>24 - Federal fuel refueling test (ORVR)</b>
<b>Exhaust Test # for this Evap Test</b>	RPRX10082418	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/02/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	6929	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC (Hydrocarbon for Running Loss and ORVR)</b>	0.0144	--

**Manufacturer Test Comments**

PANAMERA ORVR EVAP Test No. 23047326

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	0.014	0.001	0.02	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.014	0.001	0.02	0.20	Pass

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10082462</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	RPRX10082437	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/18/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	7051	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--	<b>Road Speed Fan Usage</b>	--
<b>Drive Cycle Speed Tolerance Criteria</b>	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)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0	--

**Manufacturer Test Comments**

PANAMERA RUNNING LOSS EVAP Test No. 23051648

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0	0.00	0.05	Pass

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Test #</b>	<b>RPRX10082495</b>	<b>Test Procedure</b>	<b>65 - Evap Canister Bleed Test</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/24/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	W22	<b>Fuel Calibration Number</b>	24
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Porsche AG, Labs and Engineering		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	7093	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--	<b>Road Speed Fan Usage</b>	--
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.013638	--

**Manufacturer Test Comments**                      PANAMERA BETP EVAP Test No. 23049405

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	0.0136	0	0.014	0.020	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0136	0	0.014	0.020	Pass

## Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0190RP7
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>HF2042</b>	<b>Fuel Calibration Number</b>	<b>216</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	08/24/2021
<b>Fuel Batch Calibration Effective Date</b>	08/24/2021	<b>Fuel Batch Calibration Ineffective Date</b>	08/24/2026
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.748
<b>Fuel Ethanol Volume Percent (%)</b>	10	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18000
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.825	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>W22</b>	<b>Fuel Calibration Number</b>	<b>24</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	01/19/2023
<b>Fuel Batch Calibration Effective Date</b>	01/19/2023	<b>Fuel Batch Calibration Ineffective Date</b>	01/31/2028
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.741
<b>Fuel Ethanol Volume Percent (%)</b>	10.1	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17962
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.834	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>27626</b>	<b>Fuel Calibration Number</b>	<b>2</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	12/11/2018
<b>Fuel Batch Calibration Effective Date</b>	12/11/2018	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.742
<b>Fuel Ethanol Volume Percent (%)</b>	9.9	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18001
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.825	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>HF0437</b>	<b>Fuel Calibration Number</b>	<b>314</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	02/09/2023
<b>Fuel Batch Calibration Effective Date</b>	02/09/2023	<b>Fuel Batch Calibration Ineffective Date</b>	02/28/2026

## Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0190RP7
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	--
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	--

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
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#### Consolidated List of Standards

**Exhaust Standards**

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	1.10	--	--	--	0.0082	99.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0100	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.0160	99.999

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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

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

<b>Test Group</b>		VPRXJ03.0CV6			<b>Evaporative/Refueling Family</b>			VPRXR0190RP7		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-IV ULEV70		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
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	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-IV ULEV70		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
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	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 70		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
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	

### Certification Summary Information Report

<b>Test Group</b>		VPRXJ03.0CV6			<b>Evaporative/Refueling Family</b>			VPRXR0190RP7		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 70		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
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	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 70		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.07	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0068	0.3	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 70		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
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

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	California LEV-IV ULEV70
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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

<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	
<b>Test Procedure</b>	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	Federal
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap
<b>Test Procedure</b>	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	Federal
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap
<b>Test Procedure</b>	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	Federal
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap
<b>Test Procedure</b>	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7		
<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0
<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC	--	0.20	0.001
<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC	--	0.20	0.001
<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

### Certification Summary Information Report

<b>Test Group</b>	VPRXJ03.0CV6	<b>Evaporative/Refueling Family</b>	VPRXR0190RP7		
<b>Evaporative/Refueling Family</b>	VPRXR0190RP7	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

## Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0190RP7
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
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		VPRXJ03.0CV6	Evaporative/Refueling Family		VPRXR0190RP7
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	
<b>Certification Region</b>					
CA	California + CAA Section 177 states		FA	Federal	
<b>Exhaust Emission Standard Level</b>					
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	

## Certification Summary Information Report

Test Group		VPRXJ03.0CV6	Evaporative/Refueling Family	VPRXR0190RP7
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			
<b>Transmission Type Code</b>				
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)	
<b>Drive System Code</b>				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	

### Certification Summary Information Report

Test Group	VPRXJ03.0CV6	Evaporative/Refueling Family		VPRXR0190RP7
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
<b>Additional Terms and Acronyms</b>				
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	

## Section 8~Manufacturer Statements

### 8.01>> Emission Testing Waiver Statements

<b>Fuel Spitback</b>	In accordance with 40 CFR 86.1829-15(e)(5), Porsche hereby certifies that the vehicles covered by this test group inherently meet the fuel dispensing spitback standard for the full useful life of the vehicles as part of compliance with the refueling emissions standard.
<b>Total Hydrocarbon</b>	In accordance with 40 CFR 86.1829-15(c), Porsche hereby certifies that, based upon good engineering judgment and previous emissions testing, vehicles of this test group comply with applicable total hydrocarbon emissions standards.
<b>Formaldehyde Emissions</b>	Based on prior emissions testing, as allowed by 40 CFR 86.1829-15(e)(5), Porsche attests that vehicles in this test group comply with applicable formaldehyde standards.
<b>Particulate Matter</b>	For vehicles in test groups certified to Tier-4 standards, Porsche hereby certifies, in accordance with 40 CFR 86.1829-15(d)(9), that the vehicles of this test group comply with the Particulate Matter standard for -7 °C.
<b>N2O Compliance</b>	Porsche has elected not to include N2O in its GHG fleet averaging calculations. Compliance with the N2O standards on the FTP cycle is indicated in the CSI report(s) in Section 7.
<b>CH4 Compliance</b>	Porsche has elected not to include CH4 in its GHG fleet averaging calculations. Compliance with the CH4 standards on the FTP cycle is indicated in the CSI report(s) in Section 7.
<b>FTP High Altitude Compliance and Strategies</b>	In accordance with 40 CFR 86.1829-15 (c), Porsche attests that emissions control strategies used at low altitude are similarly used across all altitudes, and that the vehicles in this test group comply with all applicable emissions standards at high altitude.
<b>Evaporative / Refueling Emissions Testing at High Altitude</b>	In accordance with 40 CFR 86.1829-01 (b) (2) (ii) (B), Porsche certifies that, based upon good engineering judgment and appropriate emissions tests, vehicles of this test group comply with applicable evaporative/refueling emissions standards at high altitude.
<b>OBD Performance Warranty Test</b>	Porsche attests that the emission control diagnostic system for all vehicles in this test group comply with all the performance warranty test requirements of 40 CFR 86.1844-01(d)(9)(iv).
<b>Testing of Configurations</b>	The worst-case configuration has been verified by development testing. At the final stages of development testing Porsche ensures all tested configurations and sub-configurations meet criteria pollutant standards.
<b>Transmission modes, and other modes</b>	Porsche vehicles typically have multiple driver-selectable driving / transmission modes, such as "Sport" and "Sport Plus", which can be driven over emission test cycles. Porsche evaluates emission performance to ensure all modes meet emissions standards. These modes, and other modes that may adapt to real-world driving conditions, such as "Towing" and "Off-Road", in that they may initiate alternate transmission scheduling and engine parameters, are described in the AECD description, Section 16. Emission standards are met in all modes.
<b>Production Intent Calibrations</b>	Porsche attests that final development testing is conducted with production-intent calibrations, and that test vehicles are fully representative of the final products.

## Section 8~Manufacturer Statements

### 8.02>> Manufacturer Attestations

<b>SFTP Air/Fuel Ratio Requirements</b>	For vehicles in test groups certified to Interim Tier-4 standards, in accordance with 40 CFR 86.1811-17(d), Porsche hereby attests that for all vehicles of this test group, at no time is the air/fuel ratio richer than the leanest mixture required to obtain maximum torque, plus a tolerance of 6%.
<b>Lean-on-Cruise Calibration Strategies</b>	For vehicles in test groups certified to Interim Tier-4 standards, Porsche hereby attests that any lean-on-cruise calibration strategies comply with terms in accordance with 40 CFR 86.1811-17(d)(4).
<b>91 RON</b>	As required by VPCD 97-01, Porsche attests that calibrations are designed to operate on 91 RON gasoline with no need for spark adjustment. Knock sensors have no influence on fuel economy or emissions results, beyond normal test variability.
<b>Adjustable Parameters and Tamper Resistance</b>	Porsche attests that no calibration parameters are adjustable, and therefore no tamper resistance measures are required.
<b>Cold Temperature Defeat Device (Continuity of Emissions)</b>	Based on engineering evaluation of emissions data at ambient, cold, and intermediate temperatures, Porsche hereby attests that this test group complies with the prohibition of defeat device requirements described in 40 CFR 86.1809. Please refer to the Final Part 2 Common Application for supporting data and analysis.
<b>A/C Specific Calibrations</b>	For vehicles in test groups certified to Interim Tier-4 standards, as required by 40 CFR 86.1811-17(d)(4), Porsche hereby attests that no A/C-On specific calibrations are employed which unnecessarily reduce the effectiveness of NMOG+Nox emissions control under reasonably expected real world conditions.
<b>Leak-Free Exhaust System</b>	Porsche has conducted a thorough engineering analysis to ensure that the complete exhaust systems described in this Application for Certification are designed to facilitate leak-free assembly, installation and operation for the full useful life of the vehicle, as required by CFR 86.1844.01(d)(16). Porsche further attests that such repairs as might be necessary on a properly maintained vehicle throughout its full useful life can be performed in such a manner as to maintain leak-free operation, using tools commonly available in a motor vehicle dealership or independent repair facility.
<b>California ASM and Inspection / Maintenance Standards</b>	Porsche hereby certifies that all vehicles in this test group are designed to comply with OBD inspection requirements specified in ARB MAC#99-05.
<b>California Fill Pipe Standards</b>	In accordance with the Title 13, California Code of Regulations Section 2235, Porsche hereby certifies that based upon good engineering judgment and previous emissions testing, vehicles of this test group comply with the applicable fill pipe requirements.
<b>GHG Compliance</b>	As part of the Volkswagen Group of America, Porsche is not subject to GHG compliance as an independent entity. GHG compliance is managed at the Group level by VWGoA.
<b>Criteria Pollutant Fleet Averages and Phase-Ins</b>	As part of the Volkswagen Group of America, Porsche is not subject to these requirements as an independent entity. Fleet emission compliance is managed at the Group level by VWGoA.

## Section 8~Manufacturer Statements

### 8.02>> Manufacturer Attestations

<b>Production Vehicle same as Test Vehicle statement</b>	The production vehicles represented by the particular engine families will be in all material respects of the same design as those for which vehicle approval is granted.
<b>California LEV IV SC03 Standards</b>	Porsche hereby attests that vehicles in this test group meet applicable standards in accordance with 13 CCR 1961.4(d)(4).
<b>Partial Soak Standard(s)</b>	Vehicles in this test group are not part of Porsche's phase in for Partial Soak as set forth in 13 CCR 1961.4(d)(2)(B)1)
<b>Quick Drive-Away Phase-In</b>	Vehicles in this test group are not part of Porsche's phase in for Quick drive-away as set forth in 13 CCR 1961.4(d)(2)(C)1(a))
<b>Partial Soak Phase-In</b>	Vehicles in this test group are not part of Porsche's phase in for Partial Soak as set forth in 13 CCR 1961.4(d)(2)(B)1)
<b>Intermediate Soak Compliance Statement</b>	In accordance with 40 CFR 86.1829-15 (d)(7), Porsche hereby certifies that vehicles in this test group comply with the intermediate soak standards of 40 CFR 86.1811-27 (b)(4)(ii) for soak times not covered by testing.
<b>LEV IV PM Attestation (in lieu of data submission)</b>	Starting in MY26 - For all test groups that are certified to LEV IV PM standards for which test data is not submitted, the manufacturer must, in accordance with good engineering practices, attest that such test groups will comply with the applicable LEV IV PM standards.
<b>California LEV IV SC03 Standards</b>	Porsche hereby attests that vehicles in this test group meet applicable standards in accordance with 13 CCR 1961.4(d)(4).
<b>ORVR-Safety Statement</b>	Porsche is using standard technology in all MY2027 vehicles ORVR systems, as mentioned in the Pre-Certification meeting. In accordance with EPA Guidance letter Cisd-06-06, ORVR application will not be submitted.

## **Section 9~OBD Description**

### **9.01>> OBD System Description**

The OBD Application for this test group was submitted to EV-CIS as the following stand-alone PDF document:

CBI\_VPRXJ03.0CV6\_OBD Application

## **Section 9~OBD Description**

### **9.02>> ARB OBD Approval**

Please refer to Section 16.

## **Section 10~Description of Alternate-Fueled Vehicles**

This section is Not Applicable (Porsche has no Alternate-Fueled Vehicles).

## Section 11~AECD Description

Please refer to Section 16.

## Section 12~Test Parameters and Description of Vehicles Covered by Certificate

### 12.01>> Vehicle Description and Parameters

<b>Carline</b>		400	400	405	405
<b>Model Name</b>		Cayenne	Cayenne	Cayenne Coupe	Cayenne Coupe
<b>Vehicle Classification</b>		LDT3	LDT3	LDT3	LDT3
<b>Sales Area</b>		50 State	50 State	50 State	50 State
<b>Transmission</b>		AT	AT	AT	AT
<b>Engine Displ. (L)</b>		3.0	3.0	3.0	3.0
<b>Engine Code</b>		DCB	DCB	DCB	DCB
<b>Catalysts</b>		See Section 2	See Section 2	See Section 2	See Section 2
<b>EGR Type</b>		Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Air Pump Type</b>		None	None	None	None
<b>Intake Air Aspiration Method</b>		Turbocharged	Turbocharged	Turbocharged	Turbocharged
<b>Idle Start/Stop</b>		Default On	Default On	Default On	Default On
<b>Drive Type</b>		AWD	AWD	AWD	AWD
<b>Starting Procedure</b>		See Section 6.02	See Section 6.02	See Section 6.02	See Section 6.02
<b>Cooling Fan</b>					
<b>Drive Accuracy Per 1066.425</b>		Yes	Yes	Yes	Yes
<b>SIL</b>		None	None	None	None
<b>Fuel System Type</b>		Direct Injection	Direct Injection	Direct Injection	Direct Injection
<b>Fuel Tank Vol. (Gal)</b>		23.8	23.8	23.8	23.8
<b>Optional Tank (Gal)</b>		N/A	N/A	N/A	N/A
<b>Canister Working Capacity (g)</b>		176	176	176	176
<b>Canister Bed Vol (L)</b>		2.79	2.79	2.79	2.79
<b>Fuel Temperature Profile</b>		See Section 6.04	See Section 6.04	See Section 6.04	See Section 6.04
<b>ETW (Lb)</b>		5250	5250	5250	5250
<b>Curb Weight</b>		4912	4905	4885	4878
<b>Gross Vehicle Weight</b>		6250	6250	6217	6217
<b>Test Horsepower</b>		348	348	348	348
<b>Shift Schedules</b>		See Section 6	See Section 6	See Section 6	See Section 6
<b>Cooling Fan Configuration</b>					
<b>Axle Ratio</b>		3.21	3.21	3.21	3.21
<b>N/V Ratio</b>		23.0	23.0	23.3	23.3
<b>Tire Sizes</b>	<b>Front</b>	285 / 45 R21 113V	285 / 45 R21 113V	285 / 45 R21 113V	285 / 45 R21 113V
	<b>Rear</b>	315 / 40 R21 115V	315 / 40 R21 115V	315 / 40 R21 115V	315 / 40 R21 115V
<b>RLHP</b>		18.3	17.2	18.4	17.3
<b>Single Roll Coefficients (target)</b>	<b>A (lbf)</b>	52.27	45.95	50.13	43.84
	<b>B [lbf/mph]</b>	0.2381	0.2381	0.4132	0.4132
	<b>C [lbf/mph<sup>2</sup>]</b>	0.02910	0.02857	0.02674	0.02614

Note: RLHP details for all model types and sub-configurations are available from Porsche upon request.

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## Section 12~Test Parameters and Description of Vehicles Covered by Certificate

### 12.01.02>< Vehicle Description Continued

<b>Carline</b>		600	605	605	
<b>Model Name</b>		Panamera	Panamera 4	Panamera 4	
<b>Vehicle Classification</b>		PC	PC	PC	
<b>Sales Area</b>		50 State	50 State	50 State	
<b>Transmission</b>		AT	AT	AT	
<b>Engine Displ. (L)</b>		2.9	2.9	2.9	
<b>Engine Code</b>		CSZ	CSZ	CSZ	
<b>Catalysts</b>		See Section 2	See Section 2	See Section 2	
<b>EGR Type</b>		Not Applicable	Not Applicable	Not Applicable	
<b>Air Pump Type</b>		None	None	None	
<b>Intake Air Aspiration Method</b>		Turbocharged	Turbocharged	Turbocharged	
<b>Idle Start/Stop</b>		Default On	Default On	Default On	
<b>Drive Type</b>		RWD	AWD	AWD	
<b>Starting Procedure</b>		See Section 6.02	See Section 6.02	See Section 6.02	
<b>Cooling Fan</b>					
<b>Drive Accuracy Per 1066.425</b>		Yes	Yes	Yes	
<b>SIL</b>		None	None	None	
<b>Fuel System Type</b>		Direct Injection	Direct Injection	Direct Injection	
<b>Fuel Tank Vol. (Gal)</b>		23.8	23.8	23.8	
<b>Optional Tank (Gal)</b>		N/A	N/A	N/A	
<b>Canister Working Capacity (g)</b>		190	190	190	
<b>Canister Bed Vol. (L)</b>		3,3	3,3	3,3	
<b>Fuel Temperature Profile</b>		See Section 6	See Section 6	See Section 6	
<b>ETW [Lb]</b>		4750	4750	4750	
<b>Curb Weight</b>		4425	4508	4511	
<b>Gross Vehicle Weight</b>		5523	5600	5600	
<b>Test Horsepower</b>		348	348	348	
<b>Shift Schedules</b>		See Section 6	See Section 6	See Section 6	
<b>Cooling Fan Configuration</b>					
<b>Axle Ratio</b>		3.36	3.36	3.36	
<b>N/V Ratio</b>		22.0	21.7	21.7	
<b>Tire Sizes</b>	<b>Front</b>	265 / 45 ZR19	275 / 35 ZR21	275 / 35 ZR21	
	<b>Rear</b>	295 / 40 ZR19	325 / 30 ZR21	325 / 30 ZR21	
<b>RLHP</b>		14.9	15.6	13.9	
<b>Single Roll Coefficients (target)</b>	<b>A [lbf]</b>	37.45	40.22	29.54	
	<b>B [lbf/mph]</b>	0.5333	0.6795	0.6154	
	<b>C [lbf/mph<sup>2</sup>]</b>	0.01900	0.01700	0.01753	

Note: blank cells or tables are intentionally blank.

## **Section 13~Projected Sales**

### **13.01>> Sales / Phase-ins**

Confidential. See Section 16 in CBI version.

## Section 14~Request for Certification

### 14.01>> Statement of Compliance

Porsche states that any element of design, system, or emission control device installed on or incorporated in Porsche's new motor vehicles or new motor vehicle engines for the purpose of complying with standards prescribed under section 202 of the Clean Air Act, will not, to the best of Porsche's information and belief, cause the emission into the ambient air of pollutants in the operation of its motor vehicles or motor vehicle engines which cause or contribute to an unreasonable risk to public health or welfare except as specifically permitted by the standards prescribed under section 202 of the Clean Air Act. Porsche further states that any element of design, system, or emission control device installed or incorporated in Porsche's new motor vehicles or motor vehicle engines for the purpose of complying with standards prescribed under section 202 of the Clean Air Act, will not, to the best of Porsche's information and belief, cause or contribute to an unreasonable risk to public safety.

The term pollutants means:

- a. Diesel particulates
- b. Nickel
- c. MMT combustion products
- d. Ammonia
- e. Sulfates
- f. Hydrogen sulfide
- g. Hydrogen cyanide
- h. Ruthenium combustion products
- i. Nitrosamines,

or any other pollutant, which Porsche has identified, which can reasonably be expected to be emitted from these vehicles.

All vehicles have been tested in accordance with good engineering practice to ascertain that such test vehicles meet the requirements of this section for the useful life of the vehicle.

The test vehicles with respect to which data are submitted are in all materials respects as described in the application for certification, have been tested in accordance with the applicable test procedures utilizing the fuels and equipment described in the application for certification, they meet the requirements of such tests, and on the basis of such tests, they conform to the requirements of the regulations in 40CFR, Part 86, Subpart A.

Signed and dated by:



April 22, 2026

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Michael Scott – Porsche Cars North America, Inc.

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## Section 15~Other Information

### 15.01>> EPA Fee Filing Form

Appears on the following page.

**Khamphouvong, Peter (PCNA-BR2)**

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**From:** fees@epa.gov  
**Sent:** Monday, April 13, 2026 8:49 AM  
**To:** Khamphouvong, Peter (PCNA-BR2)  
**Subject:** Confirmation of Certification Fees Payment

ATTENTION: This is an external email. Do not click links or open attachments unless you recognize the sender and know the content is safe. Please use the Phish Alert Button in your Outlook ribbon to report suspicious emails.

To the representative for Porsche AG:

Your certification Fee Filing Form(s) submitted for the following family or test group(s) and the associated financial documentation for your payment of \$258536.00 were received on 04/13/2026.

- VPRXJ03.0CV6
- VPRXJ03.0HV6
- VPRXJ04.0CE8
- VPRXJ04.0HV8
- VPRXT00.0ECT
- VPRXT00.0EMT
- VPRXT04.0CV8
- VPRXV00.0EMS

This message indicates only that EPA has received record of your payment and form(s) for the above certification fee. It does not constitute the granting of a Certificate of Conformity by EPA or convey any information about the status of your certification application for the subject family or test group(s).

Please do not respond to this email. If you have any questions regarding certification of the family or test group(s), please contact your EPA Certification Representative; for questions on fees, contact Fees@epa.gov.

# US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

## General Information

**Date:** 03/31/2026

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

PRX

Manufacturer Name \*

Porsche Cars North America

Contact Name \*

Peter Khamphouvong

Contact Email Address \*

peter.khamphouvong@porsche.us

Contact Phone \*

6787091264

Calendar Year complete application submitted to EPA \*

2026

**PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2026, through December 31, 2026. The applicable fee is determined by the**

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

Engine Family / Evaporative Family / Test Group \*

VPRXJ03.0CV6

### Certificate Request Type (Industry Sector Code)

Certificate Request Type \*

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? \*

No

## Payment Information

Amount Owed

\$32,317.00

Payment Type \*

Offline ACH

Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

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

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

## Section 16~Confidential Information

None.

END OF DOCUMENT