

Application for Certification: Initial Part 1

Model Year: 2027

Durability Group: VPRXHHGNNCH8

Test Group: VPRXJ04.0HV8

Evaporative/Refueling Family(ies): VPRXR0176REH
VPRXR0180RPH

Certification Summary Information Report Number(s): CSI-VPRXJ04.0HV8-VPRXR0176REH
CSI-VPRXJ04.0HV8-VPRXR0180RPH

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

Test Group Description: 4.0 Liter 8-Cylinder LDT
4.0 Liter 8-Cylinder PC

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

Carlines Covered: Cayenne Turbo e-Hybrid
Cayenne Turbo e-Hybrid Coupe
Panamera Turbo e-Hybrid
Panamera Turbo S e-Hybrid

Vehicles Tested: Exhaust: ECFE-9YATH-25
Evap: ECFE-9YAH-24
Evap: ECFE-972TH-25

Agency Response Requested By: August 3, 2026

Special Instructions: N/A

For Questions Contact: emissions@porsche.us

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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

Section 2~Durability Group Description

Durability Group Name: VPRXHHGNNCH8

Combustion Cycle: 4-stroke otto

Engine Type: 8-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 Turbo e-Hybrid, Panamera Turbo /S e-Hybrid

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

Particulate Filter: Refer to Section 16.02

Cayenne Turbo e-Hybrid, Panamera
Turbo /S e-Hybrid

GS % of Max GS
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 LDV/LDT Common Section for a detailed description of this Evaporative/ORVR system.

Family Name	VPRXR0176REH
Carryover Family	TPRXR0176REH
Models Covered	Cayenne Series (V6 and V8, hybrid)
In-Use Performance	To date, no Porsche vehicle ORVR systems have exhibited problems in the field.
ORVR Family: Carryover	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.

Family Name	VPRXR0180RPH
Carryover Family	TPRXR0180RPH
Models Covered	Panamera 4/4S e-Hybrid
In-Use Performance	To date, no Porsche vehicle ORVR systems have exhibited problems in the field.
ORVR Family	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 Turbo e-Hybrid, Panamera Turbo /S e-Hybrid

<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 *	0.01663	0.00058	0.01722	0.3429	0.00049	0.00117	0.002789	0.00023	0.0151

* N2O and CH4 basis is 120K

Evaporative Deterioration Factors:

VPRXR0176REH

Assigned DF

<u>Basis</u>	<u>2-day</u>	<u>3-day</u>	<u>RL</u>	<u>ORVR</u>
150K	0.0030	0.0067	0.0000	0.005

VPRXR0180RPH

Assigned DF

<u>Basis</u>	<u>2-day</u>	<u>3-day</u>	<u>RL</u>	<u>ORVR</u>
150K	0.003	0.007	0.00	0.005

Section 5~Test Group Description

Durability Group Name:	VPRXHHGNNCH8
Test Group Name:	VPRXJ04.0HV8
Certification Summary Information Reports:	CSI-VPRXJ04.0HV8-VPRXR0176REH CSI-VPRXJ04.0HV8-VPRXR0180RPH
No. Cylinders and Arrangement	8-cylinder, v-shaped arrangement
Engine Displacement:	4.0 Liter 4.0 Liter
Vehicle Classe(s):	LDT4 PC
NLEV Participation:	No
Emissions Standards Class:	Federal: BIN 70, INT-TIER 4 California: ULEV 70, LEV IV
Applicable Emissions Standards:	Please refer to the Certification Summary Information Report in Section 7
Hybrid Description:	Hybrid
High Voltage Battery Description:	Type : Lithium-Ion Nominal Voltage 360 Rated Capacity (Ah) : 2.4
Electric Motor Description:	Type : PMSM Rated Power (kW) : 102

Section 6~Test Vehicle Description

6.01>> Test Vehicles

	Test Vehicle ID	Vehicle/Config Purpose
Certification Test Vehicles:	ECFE-9YATH-25	Exhaust Emissions
	ECFE-9YAH-24	Evaporative Data (Cayenne)
	ECFE-972TH-25	Evaporative Data (Panamera)
Durability Test Vehicles:	ECFE-9YAH-24_2	Exhaust Durability
	DDV-972TH-25	Exhaust Durability

Test Vehicle Information	Exhaust	Evaporative	Evaporative
Test Group Name	SPRXT04.0CH8	RPRXT03.0CH6	SPRXV04.0PH8
Evaporative Family Name	SPRXR0176REH	RPRXR0176REH	SPRXR0180RPH
Test Vehicle ID	ECFE-9YATH-25	ECFE-9YAH-24	ECFE-972TH-25
Test Vehicle Model Name	Cayenne Turbo e-Hybrid Coupe	Cayenne E-Hybrid	Panamera Turbo E-Hybrid
Engine Code	DWH	DCB	DVT
Displacement (L)	4.0	3.0	4.0
Rated Engine Power (HP)	591	300	512
Transmission	SA-8	SA-8	AMS-8
Equivalent Test Weight (ETW) (lbs)	6500	6000	6000
Gross Vehicle Weight (lbs)	7044	6889	6239
Axle Ratio	2.95	3.21	3.15
Drive Mode for Testing	AWD	AWD	AWD
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

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Section 6~Test Vehicle Description

6.02>> Test Parameters, Instructions

Carlines		Cayenne and Panamera		
Engine Starting Procedures		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		
Transmission Shift Schedules, Mode	Transmission	Automatic, 8-speed		
	1st to 2nd	N/A		
	2nd to 3rd	N/A		
	3rd to 4th	N/A		
	4th to 5th	N/A		
	5th to 6th	N/A		
	6th to 7th	N/A		
	7th to 8th	N/A		
	SS II.D.	FTP – FTA; HWFE - HWA		
	Transmission Mode	Auto Mode: operate in "D" and auto mode only. Do not shift manually		
Selectable modes	Start-stop	Leave in default mode -- indicator on center console should not be illuminated		
	Other (Sport, Wet, etc.)	Leave all selectable mode buttons in default		
Other	Cooling fan	One road-speed fan, centered upright, front of vehicle		
	Body apertures	Leave all apertures closed		
	Test lab considerations	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 ²]
ECFE-9YATH-25	SA-8	6500	53.77	0.4642	0.02635
ECFE-9YAH-24	SA-8	6000	49.86	0.0384	0.03191
ECFE-972TH-25	AMS-8	6000	47.84	0.7113	0.01783

Vehicle ID	Trans	ETW [lbf]	Single Roll Coefficients (set)		
			A [lbf]	B [lbf/mph]	C [lbf/mph ²]
ECFE-9YATH-25	SA-8	6500	-2.35	0.5007	0.02287
ECFE-9YAH-24	SA-8	6000	22.48	0.1809	0.03197
ECFE-972TH-25	AMS-8	6000	9.13	0.28495	0.01817

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

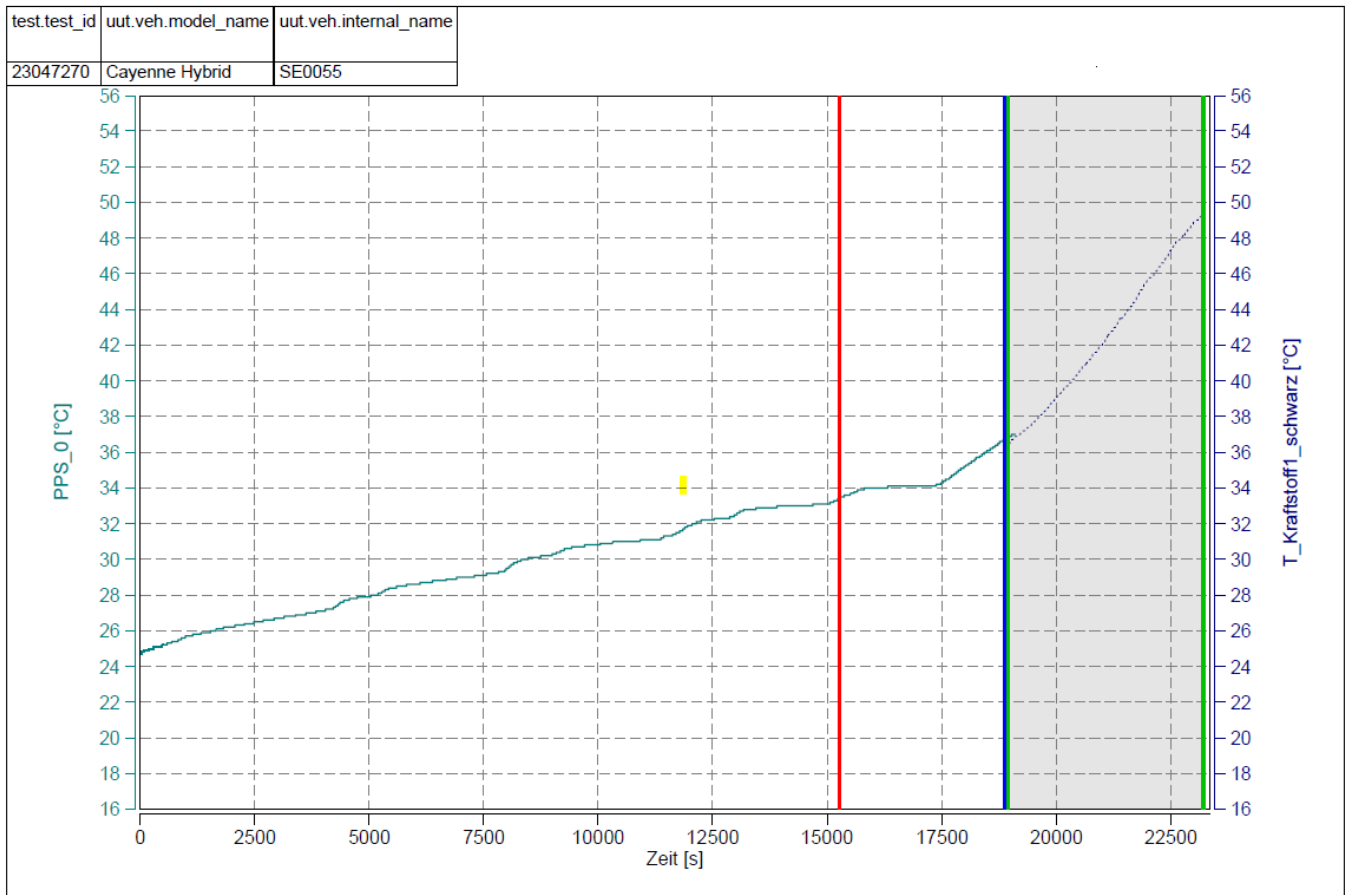
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Section 6~Test Vehicle Description

6.04>> FFTP Summary

Carlines	Cayenne E-Hybrid Base and S	
Evaporative Testing Parameters	Canister Loading	Canister Working Capacity = 176g
	FFTP REPORT ID *	23047270

TEST RESULTS



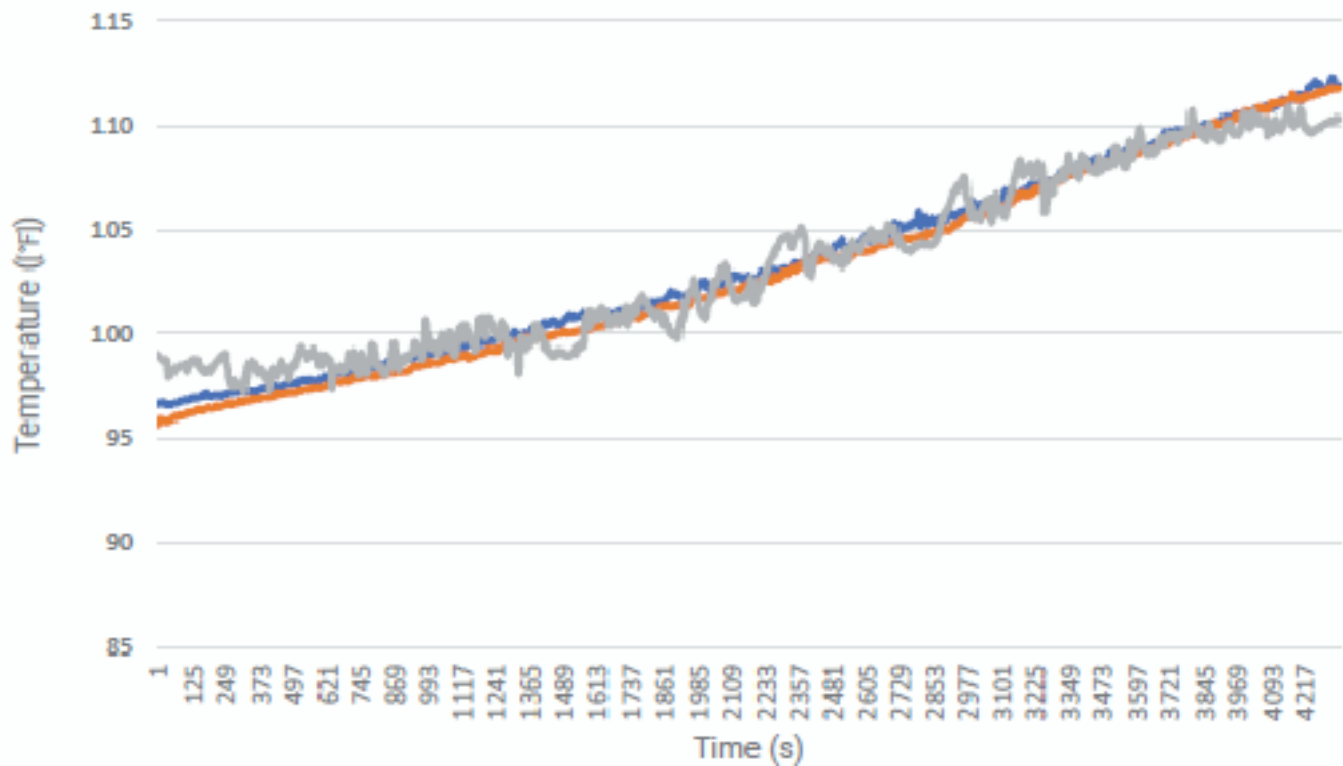
* Full report is available for review

Section 6~Test Vehicle Description

6.04>> FTTP Summary

Carlines	Panamera E-Hybrid; Panamera Turbo E-Hybrid	
Evaporative Testing Parameters	Canister Loading	Canister Working Capacity = 180g
	FTTP REPORT ID *	2407017_03

TEST RESULTS



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, LEV IV

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

Exhaust Standards: Federal: **BIN 70, INT-TIER4** California: **ULEV 70, LEV IV**

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	0.65	0.400	0.400
3-Day	HC-EQUIV (g/test)	0.400	0.400	0.65	0.400	0.400
Running Loss	HC-EQUIV (g/mi)	0.05	0.01	0.05	0.05	0.01
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.

N₂O and CH₄: Please see attestations of GHG fleet averaging in Section 8.02. Porsche has elected to comply with N₂O and CH₄ standards for all test groups of the following model year:

2027

Certification Tests

Exhaust:			
SPRX10087399	FTP		
SPRX10087400	HFET		
SPRX10087401	US06		
SPRX10087426	SC03		
SPRX10087431	Cold CO		
SPRX10087425	50 F		

Evaporative:		(VPRXR0176REH)
RPRX10084707	2-Day Evap	
RPRX10084709	3-Day Evap	
RPRX10084754	Running Loss	
RPRX10084708	ORVR	

GHG Compliance:	
SPRX10087467	FTP
SPRX10087468	HFET

Charge Depleting:				
Evaporative:		(VPRXR0180RPH)		
SPRX10087689	2-Day Evap			
SPRX10087692	3-Day Evap			
SPRX10087693	Running Loss			
SPRX10087694	ORVR			

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Section 7-Test Results

7.03>> CSI Report, Evap Family VPRXR0176REH

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

Certification Summary Information Report

Manufacturer	Porsche AG	Manufacturer Code	PRX
Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	07/06/2026 09:55:10 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
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Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Drive Source #2: Electric Motor

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	Fuels Combusted Together	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV, LDT4
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VPRXHHGNNCH8	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VPRXT04.0CH8
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	APPROVAL E-26-101 - SAE J1979-2 Implementation (VPRXJ03.0HV6, VPRXJ04.0HV8) Deficiency - Panamera Turbo e-Hybrid, Panamera Turbo S e-hybrid, Cayenne Turbo e-hybrid		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/23/2026 03:48:02 PM				
Integrated ORVR?	No	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	Stainless Steel				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	176	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	Evap system for all Cayenne hybrid (PHEV) models						
Leak Family Details							
Leak Family Indicator	No						
Canister Bleed Test Indicator	No	Applicability of Evaporative Canister Bleed Test	--				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Porsche AG	1 - Porsche	450 - Cayenne Turbo E-Hybrid	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	450 - Cayenne Turbo E-Hybrid	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	455 - Cayenne Turbo E-Hybrid Coupe	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Porsche AG	1 - Porsche	455 - Cayenne Turbo E-Hybrid Coupe	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
Engine Description							
Hybrid Type	IC Engine/Electric Motor			Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition			Mfr Engine Description	--		
Engine Block Arrangement	V-shaped engine			Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No			Oil Viscosity/Classification	0W40		
Number of Cylinders/Rotors	8			Mechanically Variable Compression Ratio Indicator	N		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Palladium + Rhodium	Ceramic
Substrate Construction			
Monolith			
Mfr After Treatment Device (ATD) Comments			
--			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
2TWC/DFI/2WR-HO2S/2HO2S/2TC/2CAC			
Engine Configuration Number 1			
Engine Displacement (liters)	4.0	Engine Rated Horsepower	591
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	VarioCam		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	VarioCam Plus		
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	--		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Engine for Cayenne Turbo e-Hybrid and Panamera Turbo S e-Hybrid		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH								
Engine Configuration Number 2											
Engine Displacement (liters)	4.0	Engine Rated Horsepower	512								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2								
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	VarioCam										
Variable Valve Lift?	Yes										
Variable Valve Lift System Description	VarioCam Plus										
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4								
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--								
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	--										
Air Injection Type	--	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	Engine for Panamera Turbo e-Hybrid										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity		SPRX10087399	SPRX10087401	SPRX10087426	SPRX10087431	SPRX10087400	--	--	--	--	--
Gasoline		SPRX10087399	SPRX10087401	SPRX10087426	SPRX10087431	SPRX10087400	19.0	228.2	23.8	286.1	--
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline		SPRX10087399	SPRX10087401	SPRX10087426							

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Gasoline	SPRX10087544	SPRX10087545	
Electricity	SPRX10087544	SPRX10087545	
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	360	Battery Energy Capacity	70
Battery Specific Energy	161	Battery Charger Type	Both
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	DC Brushless	Rated Motor/Generator Power	130
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	ELECTRIC MOTOR HORSEPOWER IS 174.		

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
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Emission Data Vehicle Information

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

Vehicle Model

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

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

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DCB	Rated Horsepower	348
Displacement (liters)	3		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5525	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	6889	N/V Ratio	24
Axle Ratio	3.21		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	49.86	0.0383	0.03191	22.48	0.1809	0.03197	17.5

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH						
Emission Control Device Comments	TWC/MAP/DFI/WR-HO2S/HO2S/1TC/2CAC								
Manufacturer Test Vehicle Comments	Cayenne E-Hybrid (plug-in hybrid), EVAP Configuration								
Test #	RPRX10084707	Test Procedure	23 - 2-day evap						
Exhaust Test # for this Evap Test	RPRX10084704	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	01/20/2023	Fuel	Gasoline						
Fuel Batch ID	W22	Fuel Calibration Number	24						
Vehicle Class	N/A	DF Type	EPA Assigned						
Verify Test Lab ID	Porsche AG, Labs and Engineering								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	5309	Odometer Units	M						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.1223</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1223	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1223	--							
Manufacturer Test Comments									
2-day evap, E10 fuel; Porsche test number 23059064									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.1223	0.0030	0.125	0.500	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1223	0.0030	0.125	0.500	Pass	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10084709	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	RPRX10084705	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/27/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4619	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

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

Manufacturer Test Comments

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

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2156	0.0067	0.222	0.500	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2156	0.0067	0.222	0.500	Pass

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH					
Test #	RPRX10084708	Test Procedure	24 - Federal fuel refueling test (ORVR)					
Exhaust Test # for this Evap Test	RPRX10084704	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)					
Test Date	11/03/2023	Fuel	Gasoline					
Fuel Batch ID	W22	Fuel Calibration Number	24					
Vehicle Class	N/A	DF Type	EPA Assigned					
Verify Test Lab ID	Porsche AG, Labs and Engineering							
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)							
Test Start Odometer Reading	4627	Odometer Units	M					
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--					
State of Charge Delta	Yes							
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes					
Test Results								
Test Result Name		Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)					
HC (Hydrocarbon for Running Loss and ORVR)		0.0048	--					
Manufacturer Test Comments								
ORVR for evap; E10 fuel; Porsche test number 23047275								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.005	0.005	0.01	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.005	0.005	0.01	0.20	Pass

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	RPRX10084754	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	RPRX10084705	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/27/2023	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4601	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--

Test Results

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

Manufacturer Test Comments

Running Loss test, E10 fuel; Porsche test number 23047270

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

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
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Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-9YATH-25 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SPRXT04.0CH8	Original Evaporative/Refueling Family	SPRXR0176REH
Original Test Vehicle Model Year	2025		

Vehicle Model

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

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

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.994
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DWH	Rated Horsepower	591
Displacement (liters)	4		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	6142	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7044	N/V Ratio	22.1
Axle Ratio	2.95		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	53.77	0.4642	0.02635	-2.35	0.5006	0.02287	19
Cold CO	59.15	0.5105	0.02895	-24.51	0.2301	0.02721	N/A
US06	53.77	0.4642	0.02635	-2.35	0.5006	0.02287	N/A

Emission Control Device Comments

Manufacturer Test Vehicle Comments

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Test Vehicle: Cayenne Turbo E-Hybrid Coupe (plug-in hybrid); Porsche Internal Name: SEP864. Exhaust and Evaporvative Configuration. 729HP is combined HP of engine and electric motor.

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087399	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/05/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4590	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	538.6833	--
FE BAG 1 (Bag 1 Fuel Economy)	15.8903	15.8903
CO2 BAG 2 (Bag 2 Carbon Dioxide)	301.4476	--
FE BAG 2 (Bag 2 Fuel Economy)	28.5522	28.5522
CO2 BAG 3 (Bag 3 Carbon Dioxide)	449.3544	--
FE BAG 3 (Bag 3 Fuel Economy)	19.1431	19.1431
CO2 BAG 4 (Bag 4 Carbon Dioxide)	298.7186	--
FE BAG 4 (Bag 4 Fuel Economy)	28.8335	28.8335
METHANE (CH4 - Methane)	0.0032836	--
CO (Carbon Monoxide)	0.364391	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3704	--
DT-EER (Drive Trace Energy Economy Rating)	0.5157	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.8379	--
MFR FE (Manufacturer Fuel Economy)	22.0459	22.0459
NOX (Nitrogen Oxide)	0.0016127	--
N2O (Nitrous Oxide)	0.0002884	--
HC-NM (Non-methane Hydrocarbon)	0.0130386	--
NMOG (Non-methane organic gases)	0.0143488	--
PM (Particulate Matter)	0.0009537	--
HC-TOTAL (Total Hydrocarbon)	0.0162046	--

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Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family					VPRXR0176REH		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 70	METHANE	0.0033	--	--	--	0.0028	--	0.006	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0003	--	--	--	0.0012	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.36	--	--	--	0.34	--	0.7	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.83	--	--	--	0.34	--	0.8	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	999	--	--	--	0.00	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0143	--	1.10	--	0.01663	--	0.031	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0159	--	1.10	--	--	--	0.033	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0263	--	1.10	--	0.01722	--	0.026	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0016	--	--	--	0.0006	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0010	--	--	--	0.0002	--	0.001	0.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0033	--	--	--	0.0028	--	0.006	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.0003	--	--	--	0.0012	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.36	--	--	--	0.34	--	0.7	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO-COMP	0.83	--	--	--	0.34	--	0.8	4.2	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0143	--	1.10	--	0.0166	--	0.031	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0159	--	1.10	--	--	--	0.033	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX-COMP	0.0263	--	1.10	--	0.0172	--	0.026	0.080	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0016	--	--	--	0.0006	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0010	--	--	--	0.0002	--	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087425	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/25/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4447	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	591.3242	--
FE BAG 1 (Bag 1 Fuel Economy)	14.2095	14.2095
CO2 BAG 2 (Bag 2 Carbon Dioxide)	181.3801	--
FE BAG 2 (Bag 2 Fuel Economy)	29.4419	29.4419
CO2 BAG 3 (Bag 3 Carbon Dioxide)	494.3401	--
FE BAG 3 (Bag 3 Fuel Economy)	17.8305	17.8305
CO2 BAG 4 (Bag 4 Carbon Dioxide)	189.1599	--
FE BAG 4 (Bag 4 Fuel Economy)	34.3699	34.3699
METHANE (CH4 - Methane)	0.003447	--
CO (Carbon Monoxide)	0.3548273	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2953	--
DT-EER (Drive Trace Energy Economy Rating)	-1.606	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.0063	--
MFR FE (Manufacturer Fuel Economy)	21.6598	21.6598
NOX (Nitrogen Oxide)	0.0018988	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0089593	--
NMOG (Non-methane organic gases)	0.0098596	--
PM (Particulate Matter)	0.0016348	--
HC-TOTAL (Total Hydrocarbon)	0.0122799	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0176REH		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		397.4179			--					
Manufacturer Test Comments		Cayenne Turbo E-Hybrid models; CS 50F E10; Internal Test #24032618										
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	0.35	--	--	--	0.34	--	0.7	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0099	--	1.10	--	0.0166	--	0.026	999.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0118	--	1.10	--	--	--	0.029	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0019	--	--	--	0.0006	--	0.002	999.999	Pass

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087431	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	06/28/2024	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	2776
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4527	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	801.0029	--
FE BAG 1 (Bag 1 Fuel Economy)	10.6475	10.6475
CO2 BAG 2 (Bag 2 Carbon Dioxide)	656.2508	--
FE BAG 2 (Bag 2 Fuel Economy)	13.0491	13.0491
CO2 BAG 3 (Bag 3 Carbon Dioxide)	578.6114	--
FE BAG 3 (Bag 3 Fuel Economy)	14.8061	14.8061
CO2 BAG 4 (Bag 4 Carbon Dioxide)	319.1571	--
FE BAG 4 (Bag 4 Fuel Economy)	26.8287	26.8287
METHANE (CH4 - Methane)	0.0113229	--
CO (Carbon Monoxide)	0.7696073	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.0802	--
DT-EER (Drive Trace Energy Economy Rating)	-1.1855	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.9635	--
MFR FE (Manufacturer Fuel Economy)	15.1326	15.1326
NOX (Nitrogen Oxide)	0.0068405	--
HC-NM (Non-methane Hydrocarbon)	0.0450685	--
NMOG (Non-methane organic gases)	0.0495654	--
HC-TOTAL (Total Hydrocarbon)	0.0559822	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0176REH			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2						
		Carbon dioxide		565.2739			--						
Manufacturer Test Comments		Cayenne Turbo E-Hybrid (V8) models; CS COLD CO E10; Internal Test #24032629											
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	0.77	--	--	--	0.34	--	1.1	12.5	Pass	
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.05	--	--	--	0.01	--	0.1	0.3	Pass	
CA	50,000 miles	California LEV-IV ULEV70	CO	0.77	--	--	--	0.34	--	1.1	12.5	Pass	
CA	120,000 miles	California LEV-IV ULEV70	HC-NM	0.05	--	--	--	0.01	--	0.1	0.3	Pass	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087400	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/05/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4605	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0020275	--
CO (Carbon Monoxide)	0.2504044	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.0889	--
DT-EER (Drive Trace Energy Economy Rating)	6.7204	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5027	--
MFR FE (Manufacturer Fuel Economy)	28.323	28.323
NOX (Nitrogen Oxide)	0.0008561	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0004899	--
NMOG (Non-methane organic gases)	0.0005046	--
PM (Particulate Matter)	0.0006497	--
HC-TOTAL (Total Hydrocarbon)	0.0024449	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	304.377	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	303.9768	--

Manufacturer Test Comments

Cayenne Turbo E-Hybrid V8 models; CS HFET E10; Internal test #24032634

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0176REH		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	999	--	--	--	0.00	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0005	--	1.03	--	0.0166	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0014	--	1.03	--	--	--	0.019	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0009	--	--	--	0.0006	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0005	--	1.03	--	0.0166	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0014	--	1.03	--	--	--	0.019	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0009	--	--	--	0.0006	--	0.002	999.999	Pass

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

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087401	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/05/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4626	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	544.1468	--	
FE BAG 1 (Bag 1 Fuel Economy)	15.8263	15.8263	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	431.1205	--	
FE BAG 2 (Bag 2 Fuel Economy)	19.9438	19.9438	
METHANE (CH4 - Methane)	0.0071244	--	
CO (Carbon Monoxide)	0.6151843	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.2441	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.2342	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3111	--	
MFR FE (Manufacturer Fuel Economy)	18.854	18.854	
NOX (Nitrogen Oxide)	0.0043394	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0.0081388	--	
NMOG (Non-methane organic gases)	0.008383	--	
PM (Particulate Matter)	0.0017219	--	
HC-TOTAL (Total Hydrocarbon)	0.0150083	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	457.2439	--	

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0176REH		
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		456.2321		--						
Manufacturer Test Comments		Cayenne Turbo E-Hybrid (V8) models; CS US06 E10; Internal Test #24032636										
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	0.62	--	--	--	0.34	--	1.0	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0084	--	1.03	--	0.0166	--	0.025	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0043	--	--	--	0.0006	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0017	--	--	--	0.0002	--	0.002	0.006	Pass
CA	4,000 miles	California LEV-IV ULEV70	CO	0.62	--	--	--	0.34	--	1.0	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0084	--	1.03	--	0.0166	--	0.025	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0043	--	--	--	0.0006	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0017	--	--	--	0.0002	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087426	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/30/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4871	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.003681	--
CO (Carbon Monoxide)	0.5118851	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.2464	--
DT-EER (Drive Trace Energy Economy Rating)	-1.6187	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.8418	--
MFR FE (Manufacturer Fuel Economy)	18.9769	18.9769
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0021469	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	453.4713	--

Manufacturer Test Comments

Cayenne Turbo E-Hybrid models; CS SC03 E10; Internal Test #24037744

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0176REH		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.51	--	--	--	0.34	--	0.8	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0000	--	1.10	--	0.0166	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0000	--	--	--	0.0006	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.51	--	--	--	0.34	--	0.8	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0000	--	--	--	0.0166	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0000	--	--	--	0.0006	--	0.001	999.999	Pass

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087544	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/09/2024	Fuel	N/A
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4658	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	17.53
Charge Depleting Range (Calculated miles)	25.48	Charge Depleting Range (Actual miles)	35.63
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	24.94	Equivalent All Electric Range (miles)	24.94
Number of Charge Depleting Bags/Phases Conducted	9	Transition Bag/Phase Number	5
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.45	
Average System Voltage		388.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		1.4855	
Drive Trace Energy Economy Rating		0.5322	
Drive Trace Inertia Work Ratio Rating		1.6763	
Integrated Amp-hours		8.492	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Charge Depleting Bag/Phase #2			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.44	
Average System Voltage		377.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-3.5802	
Drive Trace Energy Economy Rating		-2.2055	
Drive Trace Inertia Work Ratio Rating		-3.5802	
Integrated Amp-hours		16.64	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #3			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.45	
Average System Voltage		368.13	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.6356	
Drive Trace Energy Economy Rating		0.0133	
Drive Trace Inertia Work Ratio Rating		0.7776	
Integrated Amp-hours		25.169	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #4			

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.44	
	Average System Voltage	359.5	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-1.4673	
	Drive Trace Energy Economy Rating	-2.0847	
	Drive Trace Inertia Work Ratio Rating	-2.3607	
	Integrated Amp-hours	33.51	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #5

	Test Result/Emission Name	Unrounded Test Result
	Actual Distance Driven (miles)	7.45
	Average System Voltage	353.5
	Carbon Monoxide	0.08
	Carbon dioxide	128
	Carbon-Related Exhaust Emissions	128
	Drive Trace Absolute Speed Change Rating	0.9745
	Drive Trace Energy Economy Rating	0.1435
	Drive Trace Inertia Work Ratio Rating	1.1373
	Integrated Amp-hours	40.33
	Manufacturer Fuel Economy	69.2
	Nitrogen Oxide	0
	Non-methane Hydrocarbon	0.03
	Non-methane organic gases	999.999
	Non-methane organic gases plus Nitrogen Oxides	999.999
	Particulate Matter	0
	Total Hydrocarbon	0.03

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.47	
	Average System Voltage	349.13	
	Carbon Monoxide	0.28	
	Carbon dioxide	351	
	Carbon-Related Exhaust Emissions	351	
	Drive Trace Absolute Speed Change Rating	1.5349	
	Drive Trace Energy Economy Rating	0.1285	
	Drive Trace Inertia Work Ratio Rating	2.1763	
	Integrated Amp-hours	40.3	
	Manufacturer Fuel Economy	25.2	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0.005	

Charge Depleting Bag/Phase #7

	Test Result/Emission Name	Unrounded Test Result
	Actual Distance Driven (miles)	7.45
	Average System Voltage	349
	Carbon Monoxide	0.39
	Carbon dioxide	333
	Carbon-Related Exhaust Emissions	334
	Drive Trace Absolute Speed Change Rating	-2.1226
	Drive Trace Energy Economy Rating	-2.059
	Drive Trace Inertia Work Ratio Rating	-3.4846
	Integrated Amp-hours	40.3
	Manufacturer Fuel Economy	26.6
	Nitrogen Oxide	0
	Non-methane Hydrocarbon	0
	Non-methane organic gases	999.999
	Non-methane organic gases plus Nitrogen Oxides	999.999
	Particulate Matter	0
	Total Hydrocarbon	0.002

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.43	
	Average System Voltage	349	
	Carbon Monoxide	0.2	
	Carbon dioxide	336	
	Carbon-Related Exhaust Emissions	336	
	Drive Trace Absolute Speed Change Rating	-1.8843	
	Drive Trace Energy Economy Rating	-1.8927	
	Drive Trace Inertia Work Ratio Rating	-3.1544	
	Integrated Amp-hours	40.36	
	Manufacturer Fuel Economy	26.4	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0.003	

Charge Depleting Bag/Phase #9

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.46
Average System Voltage	348.88
Carbon Monoxide	0.3
Carbon dioxide	344
Carbon-Related Exhaust Emissions	344
Drive Trace Absolute Speed Change Rating	-1.8843
Drive Trace Energy Economy Rating	-1.8927
Drive Trace Inertia Work Ratio Rating	-3.1544
Integrated Amp-hours	40.37
Manufacturer Fuel Economy	25.8
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	999.999
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
Total Hydrocarbon	0.002

Manufacturer Test Comments

Cayenne Turbo E-Hybrid COUPE (V8); EDV; CD UDDS E10; Internal Test 24033097

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087545	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/11/2024	Fuel	N/A
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4726	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	16.64
Charge Depleting Range (Calculated miles)	26.04	Charge Depleting Range (Actual miles)	37.2
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	26.04	Equivalent All Electric Range (miles)	26.04
Number of Charge Depleting Bags/Phases Conducted	9	Transition Bag/Phase Number	4
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.25	
Average System Voltage		386.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		1.7936	
Drive Trace Energy Economy Rating		-0.4149	
Drive Trace Inertia Work Ratio Rating		2.1897	
Integrated Amp-hours		10.87	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Charge Depleting Bag/Phase #2			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.26	
Average System Voltage		372.5	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.3018	
Drive Trace Energy Economy Rating		-0.5235	
Drive Trace Inertia Work Ratio Rating		0.4864	
Integrated Amp-hours		21.72	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #3			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.25	
Average System Voltage		361.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-0.9091	
Drive Trace Energy Economy Rating		-0.8697	
Drive Trace Inertia Work Ratio Rating		-1.2112	
Integrated Amp-hours		32.67	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #4			

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.25	
	Average System Voltage	354	
	Carbon Monoxide	0.18	
	Carbon dioxide	144	
	Carbon-Related Exhaust Emissions	144	
	Drive Trace Absolute Speed Change Rating	-1.0044	
	Drive Trace Energy Economy Rating	-0.7194	
	Drive Trace Inertia Work Ratio Rating	-1.3549	
	Integrated Amp-hours	39.55	
	Manufacturer Fuel Economy	59.9	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0.025	

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.26
Average System Voltage	352.13
Carbon Monoxide	0.33
Carbon dioxide	318
Carbon-Related Exhaust Emissions	319
Drive Trace Absolute Speed Change Rating	-0.0613
Drive Trace Energy Economy Rating	-0.6247
Drive Trace Inertia Work Ratio Rating	-0.0304
Integrated Amp-hours	38.66
Manufacturer Fuel Economy	27.1
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	999.999
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
Total Hydrocarbon	0

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.26	
	Average System Voltage	353.13	
	Carbon Monoxide	0.27	
	Carbon dioxide	296	
	Carbon-Related Exhaust Emissions	296	
	Drive Trace Absolute Speed Change Rating	-0.1808	
	Drive Trace Energy Economy Rating	-0.6356	
	Drive Trace Inertia Work Ratio Rating	-0.1797	
	Integrated Amp-hours	38.59	
	Manufacturer Fuel Economy	29.2	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.26
Average System Voltage	353
Carbon Monoxide	0.22
Carbon dioxide	291
Carbon-Related Exhaust Emissions	291
Drive Trace Absolute Speed Change Rating	-0.2347
Drive Trace Energy Economy Rating	-0.6838
Drive Trace Inertia Work Ratio Rating	-0.2449
Integrated Amp-hours	38.61
Manufacturer Fuel Economy	29.7
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	999.999
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
Total Hydrocarbon	0

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.26	
	Average System Voltage	352.88	
	Carbon Monoxide	0.23	
	Carbon dioxide	290	
	Carbon-Related Exhaust Emissions	290	
	Drive Trace Absolute Speed Change Rating	0.3279	
	Drive Trace Energy Economy Rating	-0.7301	
	Drive Trace Inertia Work Ratio Rating	0.28	
	Integrated Amp-hours	38.68	
	Manufacturer Fuel Economy	29.8	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #9

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.24
Average System Voltage	352.75
Carbon Monoxide	0.16
Carbon dioxide	295
Carbon-Related Exhaust Emissions	295
Drive Trace Absolute Speed Change Rating	0.3279
Drive Trace Energy Economy Rating	-0.7301
Drive Trace Inertia Work Ratio Rating	0.28
Integrated Amp-hours	38.6
Manufacturer Fuel Economy	29.3
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	999.999
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
Total Hydrocarbon	0

Manufacturer Test Comments

Cayenne Turbo E-Hybrid COUPE (V8); EDV; CD HWY E10; Internal Test 24033099

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
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Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-9YATH-25 / 1	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SPRXT04.0CH8	Original Evaporative/Refueling Family	SPRXR0176REH
Original Test Vehicle Model Year	2025		

Vehicle Model

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

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

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.994
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DWH	Rated Horsepower	591
Displacement (liters)	4		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	6146	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7044	N/V Ratio	22.1
Axle Ratio	2.95		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	64.29	0.3249	0.02841	6.81	0.403	0.02459	20.2

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	Test Vehicle: Cayenne Turbo E-Hybrid Coupe (plug-in hybrid); Porsche Internal Name: SEP864. FEDV1 Configuration. 729HP is combined HP of engine and electric motor.		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087467	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/18/2024	Fuel	Gasoline
Fuel Batch ID	W21	Fuel Calibration Number	2668
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4362	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	534.1576	--
FE BAG 1 (Bag 1 Fuel Economy)	16.5728	16.5728
CO2 BAG 2 (Bag 2 Carbon Dioxide)	278.164	--
FE BAG 2 (Bag 2 Fuel Economy)	31.8163	31.8163
CO2 BAG 3 (Bag 3 Carbon Dioxide)	457.0612	--
FE BAG 3 (Bag 3 Fuel Economy)	19.353	19.353
CO2 BAG 4 (Bag 4 Carbon Dioxide)	266.1357	--
FE BAG 4 (Bag 4 Fuel Economy)	33.2626	33.2626
METHANE (CH4 - Methane)	0.0040441	--
CO (Carbon Monoxide)	0.4077075	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2426	--
DT-EER (Drive Trace Energy Economy Rating)	-1.9604	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.0846	--
MFR FE (Manufacturer Fuel Economy)	23.4925	23.4925
NOX (Nitrogen Oxide)	0.0022698	--
N2O (Nitrous Oxide)	0.0005433	--
HC-NM (Non-methane Hydrocarbon)	0.0199132	--
NMOG (Non-methane organic gases)	0.0205146	--
PM (Particulate Matter)	0.0009451	--
HC-TOTAL (Total Hydrocarbon)	0.023787	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family				VPRXR0176REH			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		377.4216		378						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		376.7057		--						
Manufacturer Test Comments		Cayenne Turbo E-Hybrid Coupe; FEDV1; CS FTP E0; Internal Test #24032611										
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	0.0040	--	--	--	0.0028	--	0.007	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0005	--	--	--	0.0012	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.41	--	--	--	0.34	--	0.8	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	378	--	--	--	0.00	--	378	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0205	--	1.10	--	0.01663	--	0.037	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0228	--	1.10	--	--	--	0.040	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0023	--	--	--	0.0006	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0009	--	--	--	0.0002	--	0.001	0.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0040	--	--	--	0.0028	--	0.007	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.0005	--	--	--	0.0012	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.41	--	--	--	0.34	--	0.8	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0205	--	1.10	--	0.0166	--	0.037	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0228	--	1.10	--	--	--	0.040	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0023	--	--	--	0.0006	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0009	--	--	--	0.0002	--	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Test #	SPRX10087468	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/19/2024	Fuel	Gasoline
Fuel Batch ID	W21	Fuel Calibration Number	2668
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4377	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0028577	--
CO (Carbon Monoxide)	0.3118162	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.4177	--
DT-EER (Drive Trace Energy Economy Rating)	-1.3913	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.0639	--
MFR FE (Manufacturer Fuel Economy)	28.6702	28.6702
NOX (Nitrogen Oxide)	0.0002213	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.002772	--
NMOG (Non-methane organic gases)	0.0028552	--
PM (Particulate Matter)	0.0002001	--
HC-TOTAL (Total Hydrocarbon)	0.0055094	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	309.2608	310

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	308.7535	--

Manufacturer Test Comments

Cayenne Turbo E-Hybrid Coupe V8; FEDV1; CS HFET E0; Internal test #24032612

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family					VPRXR0176REH		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	310	--	--	--	0.00	--	310	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0029	--	1.03	--	0.0166	--	0.020	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0031	--	1.03	--	--	--	0.020	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0002	--	--	--	0.0006	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0029	--	1.03	--	0.0166	--	0.020	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0031	--	1.03	--	--	--	0.020	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0002	--	--	--	0.0006	--	0.001	999.999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Fuel Properties			
Fuel Batch ID	W21	Fuel Calibration Number	2668
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/01/2022
Fuel Batch Calibration Effective Date	11/01/2022	Fuel Batch Calibration Ineffective Date	11/30/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18469
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	Weight Fraction CO2	--
Fuel Batch ID	W23	Fuel Calibration Number	2518
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/05/2024
Fuel Batch Calibration Effective Date	07/05/2024	Fuel Batch Calibration Ineffective Date	07/31/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17954
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	W22	Fuel Calibration Number	24
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/19/2023
Fuel Batch Calibration Effective Date	01/19/2023	Fuel Batch Calibration Ineffective Date	01/31/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.741
Fuel Ethanol Volume Percent (%)	10.1	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17962
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.834	Weight Fraction CO2	--
Fuel Batch ID	W22	Fuel Calibration Number	2776
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	06/03/2024
Fuel Batch Calibration Effective Date	06/28/2024	Fuel Batch Calibration Ineffective Date	06/30/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.737
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17979
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family			VPRXR0176REH	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	METHANE	--	--	--	--	--	--	0.0028	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0012	0.010
150,000 miles	CO	--	--	--	--	--	--	0.34	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0.34	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0166	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0172	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.0172	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	METHANE	--	--	--	--	--	--	0.0028	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0012	0.010
150,000 miles	CO	--	--	--	--	--	--	0.34	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.34	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.00	999.9
150,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.01663	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0172	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.01722	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family		VPRXR0176REH		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-IV ULEV70		
Fuel		Gasoline			Test Procedure		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	--	--	--	--	--	--	0.34	1.7
4,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.016
4,000 miles	NMOG	--	--	1.10	--	--	--	0.0166	999.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0172	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 3 Bin 70		
Fuel		Gasoline			Test Procedure		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	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-IV ULEV70		
Fuel		Gasoline			Test Procedure		HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.0172	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family			VPRXR0176REH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	--	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family			VPRXR0176REH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			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	--	--	--	--	--	--	0.34	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0.00	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.0172	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.34	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group		VPRXJ04.0HV8		Evaporative/Refueling Family		VPRXR0176REH	
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0067		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0067		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0030		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.005		

Certification Summary Information Report

Test Group		VPRXJ04.0HV8		Evaporative/Refueling Family		VPRXR0176REH	
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0030		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.005		
Evaporative/Refueling Family		VPRXR0176REH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0176REH
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family		VPRXR0176REH
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family		VPRXR0176REH
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family		VPRXR0176REH
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	

Section 7-Test Results

7.04>> CSI Report, Evap Family VPRXR0180RPH

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

Certification Summary Information Report

Manufacturer	Porsche AG	Manufacturer Code	PRX
Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	07/06/2026 09:55:10 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
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Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Drive Source #2: Electric Motor

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	Fuels Combusted Together	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV, LDT4
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VPRXHHGNNCH8	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VPRXT04.0CH8
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	APPROVAL E-26-101 - SAE J1979-2 Implementation (VPRXJ03.0HV6, VPRXJ04.0HV8) Deficiency - Panamera Turbo e-Hybrid, Panamera Turbo S e-hybrid, Cayenne Turbo e-hybrid		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/23/2026 03:57:27 PM				
Integrated ORVR?	No	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	Stainless Steel				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	180	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	Evap system for all Panamera hybrid (PHEV) models						
Leak Family Details							
Leak Family Indicator	No						
Canister Bleed Test Indicator	No	Applicability of Evaporative Canister Bleed Test	--				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Porsche AG	1 - Porsche	640 - Panamera Turbo E-Hybrid	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Porsche AG	1 - Porsche	640 - Panamera Turbo E-Hybrid	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Porsche AG	1 - Porsche	645 - Panamera Turbo S E-Hybrid	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Porsche AG	1 - Porsche	645 - Panamera Turbo S E-Hybrid	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH	
Engine Description				
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--	
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--	
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	0W40	
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
--				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
2TWC/DFI/2WR-HO2S/2HO2S/2TC/2CAC				
Engine Configuration Number 1				
Engine Displacement (liters)	4.0	Engine Rated Horsepower	591	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2	
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air	
Air Aspiration Drive Method(s)	Mechanical			
Cylinder Deactivation	No			
Cylinder Deactivation Description	--			
Variable Valve Timing	Yes			
Variable Valve Timing System Description	VarioCam			
Variable Valve Lift?	Yes			
Variable Valve Lift System Description	VarioCam Plus			
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4	
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--	
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--	
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--	
Closed Loop Air Injection System	--			
Air Injection Type	--	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	Engine for Cayenne Turbo e-Hybrid and Panamera Turbo S e-Hybrid			

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH								
Engine Configuration Number 2											
Engine Displacement (liters)	4.0	Engine Rated Horsepower	512								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2								
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	VarioCam										
Variable Valve Lift?	Yes										
Variable Valve Lift System Description	VarioCam Plus										
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4								
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--								
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	--										
Air Injection Type	--	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	Engine for Panamera Turbo e-Hybrid										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity		SPRX10087399	SPRX10087401	SPRX10087426	SPRX10087431	SPRX10087400	--	--	--	--	--
Gasoline		SPRX10087399	SPRX10087401	SPRX10087426	SPRX10087431	SPRX10087400	19.0	228.2	23.8	286.1	--
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline		SPRX10087399	SPRX10087401	SPRX10087426							

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Gasoline	SPRX10087544	SPRX10087545	
Electricity	SPRX10087544	SPRX10087545	
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	360	Battery Energy Capacity	70
Battery Specific Energy	161	Battery Charger Type	Both
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	DC Brushless	Rated Motor/Generator Power	130
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	ELECTRIC MOTOR HORSEPOWER IS 174.		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
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Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-9YATH-25 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SPRXT04.0CH8	Original Evaporative/Refueling Family	SPRXR0176REH
Original Test Vehicle Model Year	2025		

Vehicle Model

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

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

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.994
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DWH	Rated Horsepower	591
Displacement (liters)	4		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	6142	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7044	N/V Ratio	22.1
Axle Ratio	2.95		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family		VPRXR0180RPH	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	53.77	0.4642	0.02635	-2.35	0.5006	0.02287	19	
Cold CO	59.15	0.5105	0.02895	-24.51	0.2301	0.02721	N/A	
US06	53.77	0.4642	0.02635	-2.35	0.5006	0.02287	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Test Vehicle: Cayenne Turbo E-Hybrid Coupe (plug-in hybrid); Porsche Internal Name: SEP864. Exhaust and Evaporvative Configuration. 729HP is combined HP of engine and electric motor.						

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087399	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/05/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4590	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	538.6833	--
FE BAG 1 (Bag 1 Fuel Economy)	15.8903	15.8903
CO2 BAG 2 (Bag 2 Carbon Dioxide)	301.4476	--
FE BAG 2 (Bag 2 Fuel Economy)	28.5522	28.5522
CO2 BAG 3 (Bag 3 Carbon Dioxide)	449.3544	--
FE BAG 3 (Bag 3 Fuel Economy)	19.1431	19.1431
CO2 BAG 4 (Bag 4 Carbon Dioxide)	298.7186	--
FE BAG 4 (Bag 4 Fuel Economy)	28.8335	28.8335
METHANE (CH4 - Methane)	0.0032836	--
CO (Carbon Monoxide)	0.364391	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3704	--
DT-EER (Drive Trace Energy Economy Rating)	0.5157	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.8379	--
MFR FE (Manufacturer Fuel Economy)	22.0459	22.0459
NOX (Nitrogen Oxide)	0.0016127	--
N2O (Nitrous Oxide)	0.0002884	--
HC-NM (Non-methane Hydrocarbon)	0.0130386	--
NMOG (Non-methane organic gases)	0.0143488	--
PM (Particulate Matter)	0.0009537	--
HC-TOTAL (Total Hydrocarbon)	0.0162046	--

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Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family					VPRXR0180RPH		
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	--	--	--	0.0028	--	0.006	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0003	--	--	--	0.0012	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.36	--	--	--	0.34	--	0.7	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.83	--	--	--	0.34	--	0.8	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	999	--	--	--	0.00	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0143	--	1.10	--	0.01663	--	0.031	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0159	--	1.10	--	--	--	0.033	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0263	--	1.10	--	0.01722	--	0.026	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0016	--	--	--	0.0006	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0010	--	--	--	0.0002	--	0.001	0.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0033	--	--	--	0.0028	--	0.006	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.0003	--	--	--	0.0012	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.36	--	--	--	0.34	--	0.7	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO-COMP	0.83	--	--	--	0.34	--	0.8	4.2	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0143	--	1.10	--	0.0166	--	0.031	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0159	--	1.10	--	--	--	0.033	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX-COMP	0.0263	--	1.10	--	0.0172	--	0.026	0.080	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0016	--	--	--	0.0006	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0010	--	--	--	0.0002	--	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087425	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/25/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4447	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	591.3242	--
FE BAG 1 (Bag 1 Fuel Economy)	14.2095	14.2095
CO2 BAG 2 (Bag 2 Carbon Dioxide)	181.3801	--
FE BAG 2 (Bag 2 Fuel Economy)	29.4419	29.4419
CO2 BAG 3 (Bag 3 Carbon Dioxide)	494.3401	--
FE BAG 3 (Bag 3 Fuel Economy)	17.8305	17.8305
CO2 BAG 4 (Bag 4 Carbon Dioxide)	189.1599	--
FE BAG 4 (Bag 4 Fuel Economy)	34.3699	34.3699
METHANE (CH4 - Methane)	0.003447	--
CO (Carbon Monoxide)	0.3548273	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2953	--
DT-EER (Drive Trace Energy Economy Rating)	-1.606	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.0063	--
MFR FE (Manufacturer Fuel Economy)	21.6598	21.6598
NOX (Nitrogen Oxide)	0.0018988	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0089593	--
NMOG (Non-methane organic gases)	0.0098596	--
PM (Particulate Matter)	0.0016348	--
HC-TOTAL (Total Hydrocarbon)	0.0122799	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0180RPH			
		Test Result Name		Unrounded Test Result				Verify Calculated CO2					
		Carbon dioxide		397.4179				--					
Manufacturer Test Comments		Cayenne Turbo E-Hybrid models; CS 50F E10; Internal Test #24032618											
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	0.35	--	--	--	0.34	--	0.7	1.7	Pass	
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0099	--	1.10	--	0.0166	--	0.026	999.999	Pass	
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0118	--	1.10	--	--	--	0.029	0.140	Pass	
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0019	--	--	--	0.0006	--	0.002	999.999	Pass	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087431	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	06/28/2024	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	2776
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4527	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	801.0029	--
FE BAG 1 (Bag 1 Fuel Economy)	10.6475	10.6475
CO2 BAG 2 (Bag 2 Carbon Dioxide)	656.2508	--
FE BAG 2 (Bag 2 Fuel Economy)	13.0491	13.0491
CO2 BAG 3 (Bag 3 Carbon Dioxide)	578.6114	--
FE BAG 3 (Bag 3 Fuel Economy)	14.8061	14.8061
CO2 BAG 4 (Bag 4 Carbon Dioxide)	319.1571	--
FE BAG 4 (Bag 4 Fuel Economy)	26.8287	26.8287
METHANE (CH4 - Methane)	0.0113229	--
CO (Carbon Monoxide)	0.7696073	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.0802	--
DT-EER (Drive Trace Energy Economy Rating)	-1.1855	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.9635	--
MFR FE (Manufacturer Fuel Economy)	15.1326	15.1326
NOX (Nitrogen Oxide)	0.0068405	--
HC-NM (Non-methane Hydrocarbon)	0.0450685	--
NMOG (Non-methane organic gases)	0.0495654	--
HC-TOTAL (Total Hydrocarbon)	0.0559822	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0180RPH			
		Test Result Name		Unrounded Test Result				Verify Calculated CO2					
		Carbon dioxide		565.2739				--					
Manufacturer Test Comments		Cayenne Turbo E-Hybrid (V8) models; CS COLD CO E10; Internal Test #24032629											
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	0.77	--	--	--	0.34	--	1.1	12.5	Pass	
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.05	--	--	--	0.01	--	0.1	0.3	Pass	
CA	50,000 miles	California LEV-IV ULEV70	CO	0.77	--	--	--	0.34	--	1.1	12.5	Pass	
CA	120,000 miles	California LEV-IV ULEV70	HC-NM	0.05	--	--	--	0.01	--	0.1	0.3	Pass	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087400	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/05/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4605	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0020275	--
CO (Carbon Monoxide)	0.2504044	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.0889	--
DT-EER (Drive Trace Energy Economy Rating)	6.7204	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5027	--
MFR FE (Manufacturer Fuel Economy)	28.323	28.323
NOX (Nitrogen Oxide)	0.0008561	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0004899	--
NMOG (Non-methane organic gases)	0.0005046	--
PM (Particulate Matter)	0.0006497	--
HC-TOTAL (Total Hydrocarbon)	0.0024449	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	304.377	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	303.9768	--

Manufacturer Test Comments

Cayenne Turbo E-Hybrid V8 models; CS HFET E10; Internal test #24032634

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0180RPH		
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	--	--	--	0.00	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0005	--	1.03	--	0.0166	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0014	--	1.03	--	--	--	0.019	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0009	--	--	--	0.0006	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0005	--	1.03	--	0.0166	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0014	--	1.03	--	--	--	0.019	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0009	--	--	--	0.0006	--	0.002	999.999	Pass

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

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087401	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/05/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4626	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	544.1468	--
FE BAG 1 (Bag 1 Fuel Economy)	15.8263	15.8263
CO2 BAG 2 (Bag 2 Carbon Dioxide)	431.1205	--
FE BAG 2 (Bag 2 Fuel Economy)	19.9438	19.9438
METHANE (CH4 - Methane)	0.0071244	--
CO (Carbon Monoxide)	0.6151843	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.2441	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2342	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3111	--
MFR FE (Manufacturer Fuel Economy)	18.854	18.854
NOX (Nitrogen Oxide)	0.0043394	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0081388	--
NMOG (Non-methane organic gases)	0.008383	--
PM (Particulate Matter)	0.0017219	--
HC-TOTAL (Total Hydrocarbon)	0.0150083	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	457.2439	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0180RPH		
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		456.2321		--						
Manufacturer Test Comments		Cayenne Turbo E-Hybrid (V8) models; CS US06 E10; Internal Test #24032636										
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	0.62	--	--	--	0.34	--	1.0	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0084	--	1.03	--	0.0166	--	0.025	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0043	--	--	--	0.0006	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0017	--	--	--	0.0002	--	0.002	0.006	Pass
CA	4,000 miles	California LEV-IV ULEV70	CO	0.62	--	--	--	0.34	--	1.0	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0084	--	1.03	--	0.0166	--	0.025	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0043	--	--	--	0.0006	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0017	--	--	--	0.0002	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087426	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/30/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4871	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.003681	--
CO (Carbon Monoxide)	0.5118851	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.2464	--
DT-EER (Drive Trace Energy Economy Rating)	-1.6187	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.8418	--
MFR FE (Manufacturer Fuel Economy)	18.9769	18.9769
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0021469	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	453.4713	--

Manufacturer Test Comments

Cayenne Turbo E-Hybrid models; CS SC03 E10; Internal Test #24037744

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0180RPH		
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	0.51	--	--	--	0.34	--	0.8	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0000	--	1.10	--	0.0166	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0000	--	--	--	0.0006	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.51	--	--	--	0.34	--	0.8	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0000	--	--	--	0.0166	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0000	--	--	--	0.0006	--	0.001	999.999	Pass

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087544	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/09/2024	Fuel	N/A
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4658	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	17.53
Charge Depleting Range (Calculated miles)	25.48	Charge Depleting Range (Actual miles)	35.63
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	24.94	Equivalent All Electric Range (miles)	24.94
Number of Charge Depleting Bags/Phases Conducted	9	Transition Bag/Phase Number	5
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.45	
Average System Voltage		388.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		1.4855	
Drive Trace Energy Economy Rating		0.5322	
Drive Trace Inertia Work Ratio Rating		1.6763	
Integrated Amp-hours		8.492	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Charge Depleting Bag/Phase #2			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.44	
Average System Voltage		377.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-3.5802	
Drive Trace Energy Economy Rating		-2.2055	
Drive Trace Inertia Work Ratio Rating		-3.5802	
Integrated Amp-hours		16.64	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #3			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.45	
Average System Voltage		368.13	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.6356	
Drive Trace Energy Economy Rating		0.0133	
Drive Trace Inertia Work Ratio Rating		0.7776	
Integrated Amp-hours		25.169	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #4			

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.44	
	Average System Voltage	359.5	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-1.4673	
	Drive Trace Energy Economy Rating	-2.0847	
	Drive Trace Inertia Work Ratio Rating	-2.3607	
	Integrated Amp-hours	33.51	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #5

	Test Result/Emission Name	Unrounded Test Result
	Actual Distance Driven (miles)	7.45
	Average System Voltage	353.5
	Carbon Monoxide	0.08
	Carbon dioxide	128
	Carbon-Related Exhaust Emissions	128
	Drive Trace Absolute Speed Change Rating	0.9745
	Drive Trace Energy Economy Rating	0.1435
	Drive Trace Inertia Work Ratio Rating	1.1373
	Integrated Amp-hours	40.33
	Manufacturer Fuel Economy	69.2
	Nitrogen Oxide	0
	Non-methane Hydrocarbon	0.03
	Non-methane organic gases	999.999
	Non-methane organic gases plus Nitrogen Oxides	999.999
	Particulate Matter	0
	Total Hydrocarbon	0.03

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.47	
	Average System Voltage	349.13	
	Carbon Monoxide	0.28	
	Carbon dioxide	351	
	Carbon-Related Exhaust Emissions	351	
	Drive Trace Absolute Speed Change Rating	1.5349	
	Drive Trace Energy Economy Rating	0.1285	
	Drive Trace Inertia Work Ratio Rating	2.1763	
	Integrated Amp-hours	40.3	
	Manufacturer Fuel Economy	25.2	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0.005	

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.45
Average System Voltage	349
Carbon Monoxide	0.39
Carbon dioxide	333
Carbon-Related Exhaust Emissions	334
Drive Trace Absolute Speed Change Rating	-2.1226
Drive Trace Energy Economy Rating	-2.059
Drive Trace Inertia Work Ratio Rating	-3.4846
Integrated Amp-hours	40.3
Manufacturer Fuel Economy	26.6
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	999.999
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
Total Hydrocarbon	0.002

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.43	
	Average System Voltage	349	
	Carbon Monoxide	0.2	
	Carbon dioxide	336	
	Carbon-Related Exhaust Emissions	336	
	Drive Trace Absolute Speed Change Rating	-1.8843	
	Drive Trace Energy Economy Rating	-1.8927	
	Drive Trace Inertia Work Ratio Rating	-3.1544	
	Integrated Amp-hours	40.36	
	Manufacturer Fuel Economy	26.4	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0.003	

Charge Depleting Bag/Phase #9

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.46
Average System Voltage	348.88
Carbon Monoxide	0.3
Carbon dioxide	344
Carbon-Related Exhaust Emissions	344
Drive Trace Absolute Speed Change Rating	-1.8843
Drive Trace Energy Economy Rating	-1.8927
Drive Trace Inertia Work Ratio Rating	-3.1544
Integrated Amp-hours	40.37
Manufacturer Fuel Economy	25.8
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	999.999
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
Total Hydrocarbon	0.002

Manufacturer Test Comments

Cayenne Turbo E-Hybrid COUPE (V8); EDV; CD UDDS E10; Internal Test 24033097

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087545	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/11/2024	Fuel	N/A
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4726	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	16.64
Charge Depleting Range (Calculated miles)	26.04	Charge Depleting Range (Actual miles)	37.2
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	26.04	Equivalent All Electric Range (miles)	26.04
Number of Charge Depleting Bags/Phases Conducted	9	Transition Bag/Phase Number	4
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.25	
Average System Voltage		386.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		1.7936	
Drive Trace Energy Economy Rating		-0.4149	
Drive Trace Inertia Work Ratio Rating		2.1897	
Integrated Amp-hours		10.87	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Charge Depleting Bag/Phase #2			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.26	
Average System Voltage		372.5	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.3018	
Drive Trace Energy Economy Rating		-0.5235	
Drive Trace Inertia Work Ratio Rating		0.4864	
Integrated Amp-hours		21.72	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #3			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.25	
Average System Voltage		361.63	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-0.9091	
Drive Trace Energy Economy Rating		-0.8697	
Drive Trace Inertia Work Ratio Rating		-1.2112	
Integrated Amp-hours		32.67	
Manufacturer Fuel Economy		0	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0	
Non-methane organic gases		999.999	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
Total Hydrocarbon		0	
Charge Depleting Bag/Phase #4			

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.25	
	Average System Voltage	354	
	Carbon Monoxide	0.18	
	Carbon dioxide	144	
	Carbon-Related Exhaust Emissions	144	
	Drive Trace Absolute Speed Change Rating	-1.0044	
	Drive Trace Energy Economy Rating	-0.7194	
	Drive Trace Inertia Work Ratio Rating	-1.3549	
	Integrated Amp-hours	39.55	
	Manufacturer Fuel Economy	59.9	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0.025	

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.26
Average System Voltage	352.13
Carbon Monoxide	0.33
Carbon dioxide	318
Carbon-Related Exhaust Emissions	319
Drive Trace Absolute Speed Change Rating	-0.0613
Drive Trace Energy Economy Rating	-0.6247
Drive Trace Inertia Work Ratio Rating	-0.0304
Integrated Amp-hours	38.66
Manufacturer Fuel Economy	27.1
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	999.999
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
Total Hydrocarbon	0

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.26	
	Average System Voltage	353.13	
	Carbon Monoxide	0.27	
	Carbon dioxide	296	
	Carbon-Related Exhaust Emissions	296	
	Drive Trace Absolute Speed Change Rating	-0.1808	
	Drive Trace Energy Economy Rating	-0.6356	
	Drive Trace Inertia Work Ratio Rating	-0.1797	
	Integrated Amp-hours	38.59	
	Manufacturer Fuel Economy	29.2	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	999.999	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #7

	Test Result/Emission Name	Unrounded Test Result
	Actual Distance Driven (miles)	10.26
	Average System Voltage	353
	Carbon Monoxide	0.22
	Carbon dioxide	291
	Carbon-Related Exhaust Emissions	291
	Drive Trace Absolute Speed Change Rating	-0.2347
	Drive Trace Energy Economy Rating	-0.6838
	Drive Trace Inertia Work Ratio Rating	-0.2449
	Integrated Amp-hours	38.61
	Manufacturer Fuel Economy	29.7
	Nitrogen Oxide	0
	Non-methane Hydrocarbon	0
	Non-methane organic gases	999.999
	Non-methane organic gases plus Nitrogen Oxides	999.999
	Particulate Matter	0
	Total Hydrocarbon	0

Charge Depleting Bag/Phase #8

Charge Depleting Bag/Phase #9

Manufacturer Test Comments

Cayenne Turbo E-Hybrid COUPE (V8); EDV; CD HWY E10; Internal Test 24033099

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
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Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-9YATH-25 / 1	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SPRXT04.0CH8	Original Evaporative/Refueling Family	SPRXR0176REH
Original Test Vehicle Model Year	2025		

Vehicle Model

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

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

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.994
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DWH	Rated Horsepower	591
Displacement (liters)	4		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	6146	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7044	N/V Ratio	22.1
Axle Ratio	2.95		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	64.29	0.3249	0.02841	6.81	0.403	0.02459	20.2

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	Test Vehicle: Cayenne Turbo E-Hybrid Coupe (plug-in hybrid); Porsche Internal Name: SEP864. FEDV1 Configuration. 729HP is combined HP of engine and electric motor.		

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087467	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/18/2024	Fuel	Gasoline
Fuel Batch ID	W21	Fuel Calibration Number	2668
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4362	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	534.1576	--
FE BAG 1 (Bag 1 Fuel Economy)	16.5728	16.5728
CO2 BAG 2 (Bag 2 Carbon Dioxide)	278.164	--
FE BAG 2 (Bag 2 Fuel Economy)	31.8163	31.8163
CO2 BAG 3 (Bag 3 Carbon Dioxide)	457.0612	--
FE BAG 3 (Bag 3 Fuel Economy)	19.353	19.353
CO2 BAG 4 (Bag 4 Carbon Dioxide)	266.1357	--
FE BAG 4 (Bag 4 Fuel Economy)	33.2626	33.2626
METHANE (CH4 - Methane)	0.0040441	--
CO (Carbon Monoxide)	0.4077075	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2426	--
DT-EER (Drive Trace Energy Economy Rating)	-1.9604	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.0846	--
MFR FE (Manufacturer Fuel Economy)	23.4925	23.4925
NOX (Nitrogen Oxide)	0.0022698	--
N2O (Nitrous Oxide)	0.0005433	--
HC-NM (Non-methane Hydrocarbon)	0.0199132	--
NMOG (Non-methane organic gases)	0.0205146	--
PM (Particulate Matter)	0.0009451	--
HC-TOTAL (Total Hydrocarbon)	0.023787	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family				VPRXR0180RPH			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		377.4216		378						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		376.7057		--						
Manufacturer Test Comments		Cayenne Turbo E-Hybrid Coupe; FEDV1; CS FTP E0; Internal Test #24032611										
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	0.0040	--	--	--	0.0028	--	0.007	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0005	--	--	--	0.0012	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.41	--	--	--	0.34	--	0.8	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	378	--	--	--	0.00	--	378	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0205	--	1.10	--	0.01663	--	0.037	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0228	--	1.10	--	--	--	0.040	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0023	--	--	--	0.0006	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0009	--	--	--	0.0002	--	0.001	0.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0040	--	--	--	0.0028	--	0.007	0.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0.0005	--	--	--	0.0012	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.41	--	--	--	0.34	--	0.8	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0205	--	1.10	--	0.0166	--	0.037	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0228	--	1.10	--	--	--	0.040	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0023	--	--	--	0.0006	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0009	--	--	--	0.0002	--	0.001	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087468	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/19/2024	Fuel	Gasoline
Fuel Batch ID	W21	Fuel Calibration Number	2668
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4377	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0028577	--
CO (Carbon Monoxide)	0.3118162	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.4177	--
DT-EER (Drive Trace Energy Economy Rating)	-1.3913	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.0639	--
MFR FE (Manufacturer Fuel Economy)	28.6702	28.6702
NOX (Nitrogen Oxide)	0.0002213	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.002772	--
NMOG (Non-methane organic gases)	0.0028552	--
PM (Particulate Matter)	0.0002001	--
HC-TOTAL (Total Hydrocarbon)	0.0055094	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	309.2608	310

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	308.7535	--

Manufacturer Test Comments

Cayenne Turbo E-Hybrid Coupe V8; FEDV1; CS HFET E0; Internal test #24032612

Certification Summary Information Report

Test Group		VPRXJ04.0HV8				Evaporative/Refueling Family				VPRXR0180RPH		
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	310	--	--	--	0.00	--	310	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0029	--	1.03	--	0.0166	--	0.020	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0031	--	1.03	--	--	--	0.020	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0002	--	--	--	0.0006	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0029	--	1.03	--	0.0166	--	0.020	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0031	--	1.03	--	--	--	0.020	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0002	--	--	--	0.0006	--	0.001	999.999	Pass

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

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
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Emission Data Vehicle Information

Vehicle ID / Configuration	EVAP-972TH-25 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SPRXV04.0PH8	Original Evaporative/Refueling Family	SPR XR0180RPH
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Panamera Turbo PHEV
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Leak Family Details

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

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.997
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DVT	Rated Horsepower	512
Displacement (liters)	4		
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)	5481	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	6239	N/V Ratio	20.3
Axle Ratio	3.15		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	8
Transmission Lockup	No	Creep Gear	No

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	35.924	0.66426	0.016938	-2.709	0.33495	0.016454	14.9
US06	35.924	0.66426	0.016938	-2.709	0.33495	0.016454	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments EVAP EDV - Panamera Turbo E-Hybrid PHEV; Internal Vehicle ID: SE0208

Test #	SPRX10087689	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	SPRX10087688	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/12/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6581	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1332	--

Manufacturer Test Comments 2-day evap, E10 fuel; Porsche test number 24031371+24031370

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	0.1332	0.003	0.136	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1332	0.003	0.136	0.300	Pass

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH						
Test #	SPRX10087692	Test Procedure	34 - Federal fuel 3-day evap						
Exhaust Test # for this Evap Test	SPRX10087690	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	08/10/2024	Fuel	Gasoline						
Fuel Batch ID	T3E10	Fuel Calibration Number	6088						
Vehicle Class	N/A	DF Type	EPA Assigned						
Verify Test Lab ID	IDIADA-Santa Oliva								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	7109	Odometer Units	K						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes						
Test Results									
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.169</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.169	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.169	--							
Manufacturer Test Comments									
3-day diurnal, E10 fuel; Porsche test number LM240701703									
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	0.1690	0.0067	0.176	0.300	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1690	0.0067	0.176	0.300	Pass	

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Test #	SPRX10087693	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SPRX10087690	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/10/2024	Fuel	Gasoline
Fuel Batch ID	T3E10	Fuel Calibration Number	6088
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA-Santa Oliva		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	7081	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--

Test Results

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

Manufacturer Test CommentsRunning Loss test, E10 fuel; Porsche test number LM2407017_03

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

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH						
Test #	SPRX10087694	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	SPRX10087688	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	07/11/2024	Fuel	Gasoline						
Fuel Batch ID	W23	Fuel Calibration Number	2518						
Vehicle Class	N/A	DF Type	EPA Assigned						
Verify Test Lab ID	Porsche AG, Labs and Engineering								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	6539	Odometer Units	K						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC (Hydrocarbon for Running Loss and ORVR)</td> <td>0.0023</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC (Hydrocarbon for Running Loss and ORVR)	0.0023	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.0023	--							
Manufacturer Test Comments									
ORVR for evap; E10 fuel; Porsche test number 24031358									
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	0.002	0.005	0.01	0.02	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.002	0.005	0.01	0.20	Pass	

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Fuel Properties			
Fuel Batch ID	W21	Fuel Calibration Number	2668
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/01/2022
Fuel Batch Calibration Effective Date	11/01/2022	Fuel Batch Calibration Ineffective Date	11/30/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18469
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	Weight Fraction CO2	--
Fuel Batch ID	W23	Fuel Calibration Number	2518
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/05/2024
Fuel Batch Calibration Effective Date	07/05/2024	Fuel Batch Calibration Ineffective Date	07/31/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17954
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	T3E10	Fuel Calibration Number	6088
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/05/2024
Fuel Batch Calibration Effective Date	07/05/2024	Fuel Batch Calibration Ineffective Date	07/05/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17730
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	W22	Fuel Calibration Number	2776
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	06/03/2024
Fuel Batch Calibration Effective Date	06/28/2024	Fuel Batch Calibration Ineffective Date	06/30/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.737
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17979
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family		VPRXR0180RPH		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-IV ULEV70		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	METHANE	--	--	--	--	--	--	0.0028	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0012	0.010
150,000 miles	CO	--	--	--	--	--	--	0.34	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0.34	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0166	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0172	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.0172	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 3 Bin 70		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	METHANE	--	--	--	--	--	--	0.0028	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0012	0.010
150,000 miles	CO	--	--	--	--	--	--	0.34	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.34	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.00	999.9
150,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.01663	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0172	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.01722	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family		VPRXR0180RPH		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-IV ULEV70		
Fuel		Gasoline			Test Procedure		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	--	--	--	--	--	--	0.34	1.7
4,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.016
4,000 miles	NMOG	--	--	1.10	--	--	--	0.0166	999.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0172	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 3 Bin 70		
Fuel		Gasoline			Test Procedure		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	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-IV ULEV70		
Fuel		Gasoline			Test Procedure		HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.0172	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family			VPRXR0180RPH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.34	999.9
150,000 miles	NMOG	--	--	--	--	--	--	0.0166	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Certification Summary Information Report

Test Group		VPRXJ04.0HV8			Evaporative/Refueling Family			VPRXR0180RPH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.34	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0.00	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0166	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.0172	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.34	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group		VPRXJ04.0HV8		Evaporative/Refueling Family		VPRXR0180RPH	
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.005		
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.003		
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0067		
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0067		

Certification Summary Information Report

Test Group		VPRXJ04.0HV8		Evaporative/Refueling Family		VPRXR0180RPH	
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.02	0.005		
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VPRXR0180RPH		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.003		

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family	VPRXR0180RPH
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family		VPRXR0180RPH
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family		VPRXR0180RPH
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VPRXJ04.0HV8	Evaporative/Refueling Family		VPRXR0180RPH
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	

Section 8~Manufacturer Statements

8.01>> Emission Testing Waiver Statements

Fuel Spitback	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.
Total Hydrocarbon	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.
Formaldehyde Emissions	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.
Particulate Matter	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.
N2O Compliance	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.
CH4 Compliance	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.
FTP High Altitude Compliance and Strategies	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.
Evaporative / Refueling Emissions Testing at High Altitude	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.
OBD Performance Warranty Test	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).
Testing of Configurations	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.
Transmission modes, and other modes	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.
Production Intent Calibrations	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

SFTP Air/Fuel Ratio Requirements	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%.
Lean-on-Cruise Calibration Strategies	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).
91 RON	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.
Adjustable Parameters and Tamper Resistance	Porsche attests that no calibration parameters are adjustable, and therefore no tamper resistance measures are required.
Cold Temperature Defeat Device (Continuity of Emissions)	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.
A/C Specific Calibrations	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.
Leak-Free Exhaust System	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.
California ASM and Inspection / Maintenance Standards	Porsche hereby certifies that all vehicles in this test group are designed to comply with OBD inspection requirements specified in ARB MAC#99-05.
California Fill Pipe Standards	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.
GHG Compliance	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.
Criteria Pollutant Fleet Averages and Phase-Ins	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

Production Vehicle same as Test Vehicle statement	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.
California LEV IV SC03 Standards	Porsche hereby attests that vehicles in this test group meet applicable standards in accordance with 13 CCR 1961.4(d)(4).
Partial Soak Standard(s)	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)
Quick Drive-Away Phase-In	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))
Partial Soak Phase-In	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)
Intermediate Soak Compliance Statement	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.
LEV IV PM Attestation (in lieu of data submission)	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.
California LEV IV SC03 Standards	Porsche hereby attests that vehicles in this test group meet applicable standards in accordance with 13 CCR 1961.4(d)(4).
ORVR-Safety Statement	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.
Federal Emissions Warranty	Per 40 CFR 85.2103, Porsche model year 2027 vehicles are provided with applicable Federal emissions performance warranties for 2 years or 24,000 miles and for 8 years or 80,000 miles for major emissions control components. Porsche electric vehicles and plug-in hybrid electric vehicles over 6,000 lbs GVWR will be provided with the optional warranty in 40 CFR 85.2103(d) (1)(v) upon first certification to full Tier-4 standards in 40 CFR 86.1811-27.

Section 8~Manufacturer Statements

8.02>> Manufacturer Attestations

Production Vehicle same as Test Vehicle statement	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.
California LEV IV SC03 Standards	Porsche hereby attests that vehicles in this test group meet applicable standards in accordance with 13 CCR 1961.4(d)(4).
Partial Soak Standard(s)	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)
Quick Drive-Away Phase-In	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))
Partial Soak Phase-In	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)
Intermediate Soak Compliance Statement	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.
LEV IV PM Attestation (in lieu of data submission)	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.
California LEV IV SC03 Standards	Porsche hereby attests that vehicles in this test group meet applicable standards in accordance with 13 CCR 1961.4(d)(4).
ORVR-Safety Statement	Porsche is using standard technology in all MY2027 vehicles ORVR systems, as mentioned in the Pre-Certification meeting. In accordance with EPA Guidance letter CISC-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_VPRXJ04.0HV8_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

Carline		455	450	640	645
Model Name		Cayenne Turbo e-Hybrid Coupe	Cayenne Turbo e-Hybrid	Panamera Turbo e-Hybrid	Panamera Turbo S e-Hybrid
Vehicle Classification		LDT4	LDT4	PC	PC
Sales Area		50 State	50 State	50 State	50 State
Transmission		SA-8	SA-8	AMS-8	AMS-8
Engine Displ. (L)		4.0	4.0	4.0	4.0
Engine Code		DWH	DWH	DVT	DVT
Catalysts		See Section 2	See Section 2	See Section 2	See Section 2
EGR Type		Not Applicable	Not Applicable	Not Applicable	Not Applicable
Air Pump Type		None	None	None	None
Intake Air Aspiration Method		Turbocharged	Turbocharged	Turbocharged	Turbocharged
Idle Start/Stop		Default On	Default On	Default On	Default On
Drive Type		AWD	AWD	AWD	AWD
Starting Procedure		See Section 6.02	See Section 6.02	See Section 6.02	See Section 6.02
Cooling Fan					
Drive Accuracy Per 1066.425		Yes	Yes	Yes	Yes
SIL		None	None	None	None
Fuel System Type		Direct Injection	Direct Injection	Direct Injection	Direct Injection
Fuel Tank Vol. (Gal)		18.5	18.5	21.1	21.1
Optional Tank (Gal)		N/A	N/A	N/A	N/A
Canister Working Capacity (g)		176	176	180	180
Canister Bed Vol (L)		2.79	2.79	3.3	3.3
Fuel Temperature Profile		See Section 6.04	See Section 6.04	See Section 6.04	See Section 6.04
ETW (Lb)		6500	6500	6000	6000
Curb Weight		6146	6199	5412	5494
Gross Vehicle Weight		7044	7088	6316	6239
Test Horsepower		591	591	591	512
Shift Schedules		See Section 6	See Section 6	See Section 6	See Section 6
Cooling Fan Configuration					
Axle Ratio		2.95	2.95	3.15	3.15
N/V Ratio		22.1	22.1	20.3	20.3
Tire Sizes	Front	285/45 R21	285/45 R21	275/35 R21	275/35 R21
	Rear	315/40 R21	315/40 R21	325/30 R21	325/30 R21
RLHP		20.2	20.2	16.9	17.1
Single Roll Coefficients (target)	A (lbf)	64.30	64.30	46.36	47.84
	B [lbf/mph]	0.3249	0.3249	0.7113	0.7113
	C [lbf/mph²]	0.02841	0.02841	0.01783	0.01783

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

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

12.01.02>< Vehicle Description Continued

Carline	455			
Model Name	Cayenne Turbo e-Hybrid Coupe			
Vehicle Classification	LDT4			
Sales Area	50 State			
Transmission	SA-8			
Engine Displ. (L)	4.0			
Engine Code	DWH			
Catalysts	See Section 2			
EGR Type	Not Applicable			
Air Pump Type	None			
Intake Air Aspiration Method	Turbocharged			
Idle Start/Stop	Default On			
Drive Type	AWD			
Starting Procedure	See Section 6.02			
Cooling Fan				
Drive Accuracy Per 1066.425	Yes			
SIL	None			
Fuel System Type	Direct Injection			
Fuel Tank Vol. (Gal)	18.5			
Optional Tank (Gal)	N/A			
Canister Working Capacity (g)	176			
Canister Bed Vol. (L)	2.79			
Fuel Temperature Profile	See Section 6			
ETW [Lb]	6500			
Curb Weight	6142			
Gross Vehicle Weight	7044			
Test Horsepower	591			
Shift Schedules	See Section 6			
Cooling Fan Configuration				
Axle Ratio	2.95			
N/V Ratio	22.1			
Tire Sizes	Front	285/45 R21		
	Rear	315/40 R21		
RLHP	19.0			
Single Roll Coefficients (target)	A (lbf)	53.77		
	B [lbf/mph]	0.4642		
	C [lbf/mph ²]	0.02635		

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:



May 18, 2026

Michael Scott – Porsche Cars North America, Inc.

Section 15~Other Information

15.01>> EPA Fee Filing Form

Appears on the following page.

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 *

VPRXJ04.0HV8

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.

Khamphouvong, Peter (PCNA-BR2)

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.

Section 16~Confidential Information

None.

END OF DOCUMENT