

Certification Summary Information Report

Manufacturer	Porsche AG	Manufacturer Code	PRX
Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Certificate Number	VPRXV04.0S92-001	CARB Executive Order #	--
Certificate Issue Date	05/05/2026	Certificate Revision Date	--
Certificate Effective Date	05/05/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/22/2026 03:11:25 PM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	--	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VPRXGPGNNS92	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	07/17/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VPRXV04.0R92
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	OBD Approval E-26-070 - 1 deficiency for the SAE J1979-2 implementation.		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	03/23/2026 03:37:02 PM
Integrated ORVR?	Yes	Fuel(s)	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE
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)	170	Number of Primary Canisters	1
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	170
Mfr Evaporative/Refueling Family Comments	--		
Leak Family Details			
Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--
CARB Fuel Only (Rig) Test Comments	--		
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VPRXR0170R92-001	50 State	0.02	--

Certification Summary Information Report

Test Group		VPRXV04.0S92		Evaporative/Refueling Family		VPRXR0170R92	
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	590 - 911 GT3 S/C	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	590 - 911 GT3 S/C	Federal	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	587 - 911 GT3 90 F. A. Porsche	Federal	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	587 - 911 GT3 90 F. A. Porsche	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	580 - 911 GT3	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Porsche AG	1 - Porsche	585 - 911 GT3 Touring	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Porsche AG	1 - Porsche	580 - 911 GT3	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Porsche AG	1 - Porsche	580 - 911 GT3	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	580 - 911 GT3	Federal	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	585 - 911 GT3 Touring	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Porsche AG	1 - Porsche	585 - 911 GT3 Touring	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	585 - 911 GT3 Touring	Federal	2-Wheel Drive, Rear	Manual	6	No

Engine Description			
Hybrid Type	--	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	Horizontally Opposed	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	0W40
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
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
3	Three-way catalyst	Palladium + Rhodium	Ceramic
4	Three-way catalyst	Palladium + Rhodium	Ceramic
Substrate Construction			
Monolith			
Mfr After Treatment Device (ATD) Comments			
2TWC(2)/MAP/DFI/2WR-HO2S/2HO2S/AIR			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			
Engine Configuration Number 1			
Engine Displacement (liters)	4.0	Engine Rated Horsepower	502
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	--
Air Aspiration Device Configuration	--	Charge Air Cooler Type	N/A
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?	No		
Variable Valve Lift System Description	VarioCam		
Number of Knock Sensors	2	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	--		

Certification Summary Information Report

Test Group		VPRXV04.0S92				Evaporative/Refueling Family			VPRXR0170R92		
Official Test Numbers											
Test Group Fuel		FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		SPRX10088382	SPRX10088379	SPRX10088377	SPRX10088381	SPRX10088380	--	13.9	--	17.2	--
SFTP LEV-III Official Test Numbers											
Test Group Fuel		FTP		US06		SC03					
Gasoline		SPRX10088382		SPRX10088379		SPRX10088377					

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
-------------------	--------------	-------------------------------------	--------------

Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-992GT3-PDK-25 / 1	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SPRXV04.0S92	Original Evaporative/Refueling Family	SPR XR0170R92
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	911 GT3
--------------------------------------	---------	---------------------------------------	---------

Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
-------------------------------	----	-------------------------	----

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.973
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DZP	Rated Horsepower	502
Displacement (liters)	4		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3369	Equivalent Test Weight (pounds)	3750
GVWR (lbs)	3929	N/V Ratio	38.1
Axle Ratio	3.27		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7
Transmission Lockup	No	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	36.37	0.4146	0.02006	-11	0.0591	0.02091	14.3

Page 7 of 46 CSI Submission/Revision Date: 04/22/2026 03:11:25 PM

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088386	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	10/22/2024	Fuel	Gasoline
Fuel Batch ID	W24	Fuel Calibration Number	1558
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4158	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	561.1597	--
FE BAG 1 (Bag 1 Fuel Economy)	15.8437	15.8437
CO2 BAG 2 (Bag 2 Carbon Dioxide)	508.7756	--
FE BAG 2 (Bag 2 Fuel Economy)	17.5154	17.5154
CO2 BAG 3 (Bag 3 Carbon Dioxide)	458.0021	--
FE BAG 3 (Bag 3 Fuel Economy)	19.4559	19.4559
METHANE (CH4 - Methane)	0.0028282	--
CO (Carbon Monoxide)	0.1419828	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.0858	--
DT-EER (Drive Trace Energy Economy Rating)	0.4663	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.7605	--
MFR FE (Manufacturer Fuel Economy)	17.6141	17.6141
NOX (Nitrogen Oxide)	0.0108093	--
HC-NM (Non-methane Hydrocarbon)	0.0194557	--
NMOG (Non-methane organic gases)	0.0200433	--
HC-TOTAL (Total Hydrocarbon)	0.0220253	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	505.9414	506

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	505.6485	--

Certification Summary Information Report

Test Group		VPRXV04.0S92				Evaporative/Refueling Family				VPRXR0170R92		
Manufacturer Test Comments		FTP75 FE FEDV1 Test No. 24040229										
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	0.0028	--	--	--	0.0028	--	0.006	.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.14	--	--	--	0.07	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	506	--	--	--	0	--	506	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.02	--	1.1	--	0.0041	--	0.024	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0308	--	1.1	--	--	--	0.036	.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0108	--	--	--	0.0012	--	0.012	999.999	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0028	--	--	--	0.0028	--	0.006	.030	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.14	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.02	--	1.1	--	0.0041	--	0.024	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0308	--	1.1	--	--	--	0.036	.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0108	--	--	--	0.0012	--	0.012	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	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088408	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	10/22/2024	Fuel	Gasoline
Fuel Batch ID	W24	Fuel Calibration Number	1558
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4169	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0015171	--
CO (Carbon Monoxide)	0.0477539	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.3166	--
DT-EER (Drive Trace Energy Economy Rating)	0.0963	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.8375	--
MFR FE (Manufacturer Fuel Economy)	24.0223	24.0223
NOX (Nitrogen Oxide)	0.0014798	--
HC-NM (Non-methane Hydrocarbon)	0.0016663	--
NMOG (Non-methane organic gases)	0.0017163	--
HC-TOTAL (Total Hydrocarbon)	0.0031242	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	370.9756	371

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	370.8907	--

Manufacturer Test Comments

HWY FE FEDV1 Test No. 24040230

Certification Summary Information Report

Test Group		VPRXV04.0S92				Evaporative/Refueling Family				VPRXR0170R92		
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	CREE	371	--	--	--	0	--	371	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0017	--	--	--	0.0041	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0032	--	--	--	--	--	0.008	.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0015	--	--	--	0.0012	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0017	--	--	--	0.0041	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0032	--	--	--	--	--	0.008	.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0015	--	--	--	0.0012	--	0.003	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	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92					
Emission Data Vehicle Information								
Vehicle ID / Configuration	ECFE-992GT3-PDK-25 / 2	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	SPRXV04.0S92	Original Evaporative/Refueling Family	SPR XR0170R92					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	911 GT3					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	0	Odometer Correction Factor	0.973					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	DZP	Rated Horsepower	502					
Displacement (liters)	4							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Rear					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	3369	Equivalent Test Weight (pounds)	3750					
GVWR (lbs)	3929	N/V Ratio	38.1					
Axle Ratio	3.27							
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family		VPRXR0170R92	
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	36.37	0.4146	0.02006	-16.53	0.014	0.02126	14.3	
Cold CO	40.02	0.4562	0.02207	-21.41	-0.1349	0.02405	N/A	
US06	36.37	0.4146	0.02006	-16.53	0.014	0.02126	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		EXHAUST EDV - 911 GT3 PDK; INTERNAL VEHICLE ID: SEP031						

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088381	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	10/18/2024	Fuel	Gasoline
Fuel Batch ID	22W	Fuel Calibration Number	2776
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4108	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO BAG 1 (Bag 1 Carbon Monoxide)	1.165628	--
CH4 BAG 1 (Bag 1 Methane)	0.034082	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.4756897	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0204585	--
CH4 BAG 2 (Bag 2 Methane)	0	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0419342	--
CH4 BAG 3 (Bag 3 Methane)	0.002777	--
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--
METHANE (CH4 - Methane)	0.0078284	--
CO (Carbon Monoxide)	0.2637964	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.8912	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0887	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.9961	--
MFR FE (Manufacturer Fuel Economy)	15.5009	15.5009
NOX (Nitrogen Oxide)	0.0102048	--
HC-NM (Non-methane Hydrocarbon)	0.0895021	--
NMOG (Non-methane organic gases)	0.0984327	--
HC-TOTAL (Total Hydrocarbon)	0.0970157	--

Certification Summary Information Report

Test Group		VPRXV04.0S92				Evaporative/Refueling Family				VPRXR0170R92			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2						
		Carbon dioxide		552.4818			--						
Manufacturer Test Comments		COLD CO EXHAUST EC Test No. 24040361											
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	0.26	--	--	--	0.07	--	0.3	10.0	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	HC-NM	0.09	--	--	--	0	--	0.1	0.3	Pass	
CA	50,000 miles	California LEV-IV ULEV70	CO	0.26	--	--	--	0.07	--	0.3	10.0	Pass	
CA	150,000 miles	California LEV-IV ULEV70	HC-NM	0.09	--	--	--	0	--	0.1	0.3	Pass	

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088382	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	10/25/2024	Fuel	Gasoline
Fuel Batch ID	23W	Fuel Calibration Number	2518
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4269	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92																																																																																									
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>539.613</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>412.3711</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>15.9496</td><td>15.9496</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0098005</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0798006</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>498.2858</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>17.3011</td><td>17.3011</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0002623</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>428.7202</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>32.1792</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>20.1056</td><td>20.1056</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0026943</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0006997</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0027725</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0943366</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.3329</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.7723</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-1.8101</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>17.6683</td><td>17.6683</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0101293</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0153054</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0168435</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0178655</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	539.613	--	CO BAG 1 (Bag 1 Carbon Monoxide)	412.3711	--	FE BAG 1 (Bag 1 Fuel Economy)	15.9496	15.9496	CH4 BAG 1 (Bag 1 Methane)	0.0098005	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0798006	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	498.2858	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	FE BAG 2 (Bag 2 Fuel Economy)	17.3011	17.3011	CH4 BAG 2 (Bag 2 Methane)	0	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0002623	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	428.7202	--	CO BAG 3 (Bag 3 Carbon Monoxide)	32.1792	--	FE BAG 3 (Bag 3 Fuel Economy)	20.1056	20.1056	CH4 BAG 3 (Bag 3 Methane)	0.0026943	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0006997	--	METHANE (CH4 - Methane)	0.0027725	--	CO (Carbon Monoxide)	0.0943366	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.3329	--	DT-EER (Drive Trace Energy Economy Rating)	-0.7723	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.8101	--	MFR FE (Manufacturer Fuel Economy)	17.6683	17.6683	NOX (Nitrogen Oxide)	0.0101293	--	N2O (Nitrous Oxide)	0	--	HC-NM (Non-methane Hydrocarbon)	0.0153054	--	NMOG (Non-methane organic gases)	0.0168435	--	PM (Particulate Matter)	0	--	HC-TOTAL (Total Hydrocarbon)	0.0178655	--	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>487.9307</td><td>488</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	487.9307	488
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																																									
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	539.613	--																																																																																									
	CO BAG 1 (Bag 1 Carbon Monoxide)	412.3711	--																																																																																									
	FE BAG 1 (Bag 1 Fuel Economy)	15.9496	15.9496																																																																																									
	CH4 BAG 1 (Bag 1 Methane)	0.0098005	--																																																																																									
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0798006	--																																																																																									
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	498.2858	--																																																																																									
	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--																																																																																									
	FE BAG 2 (Bag 2 Fuel Economy)	17.3011	17.3011																																																																																									
	CH4 BAG 2 (Bag 2 Methane)	0	--																																																																																									
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0002623	--																																																																																									
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	428.7202	--																																																																																									
	CO BAG 3 (Bag 3 Carbon Monoxide)	32.1792	--																																																																																									
	FE BAG 3 (Bag 3 Fuel Economy)	20.1056	20.1056																																																																																									
	CH4 BAG 3 (Bag 3 Methane)	0.0026943	--																																																																																									
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0006997	--																																																																																									
	METHANE (CH4 - Methane)	0.0027725	--																																																																																									
	CO (Carbon Monoxide)	0.0943366	--																																																																																									
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.3329	--																																																																																									
	DT-EER (Drive Trace Energy Economy Rating)	-0.7723	--																																																																																									
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.8101	--																																																																																									
	MFR FE (Manufacturer Fuel Economy)	17.6683	17.6683																																																																																									
	NOX (Nitrogen Oxide)	0.0101293	--																																																																																									
	N2O (Nitrous Oxide)	0	--																																																																																									
	HC-NM (Non-methane Hydrocarbon)	0.0153054	--																																																																																									
	NMOG (Non-methane organic gases)	0.0168435	--																																																																																									
	PM (Particulate Matter)	0	--																																																																																									
	HC-TOTAL (Total Hydrocarbon)	0.0178655	--																																																																																									
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																																																									
	Carbon-Related Exhaust Emissions	487.9307	488																																																																																									
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>487.7285</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	487.7285	--																																																																																				
		Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																																								
	Carbon dioxide	487.7285	--																																																																																									
Manufacturer Test Comments	FTP75 EXHAUST EC Test No. 24040340																																																																																											

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family					VPRXR0170R92		
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	0.0028	--	--	--	0.0028	--	0.006	.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0	--	--	--	0	--	0	.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.09	--	--	--	0.07	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.12	--	--	--	0.07	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	488	--	--	--	0	--	488	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0168	--	1.1	--	0.0041	--	0.021	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0269	--	1.1	--	--	--	0.032	.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0202	--	--	--	0.0053	--	0.02	.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0101	--	--	--	0.0012	--	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0	--	--	--	0.0003	--	0	.003	Pass
CA	120,000 miles	California LEV-IV ULEV70	METHANE	0.0028	--	--	--	0.0028	--	0.006	.030	Pass
CA	120,000 miles	California LEV-IV ULEV70	N2O	0	--	--	--	0	--	0	.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.09	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0168	--	1.1	--	0.0041	--	0.021	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0269	--	1.1	--	--	--	0.032	.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0101	--	--	--	0.0012	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0	--	--	--	0.0003	--	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	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088383	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	10/15/2024	Fuel	Gasoline
Fuel Batch ID	23W	Fuel Calibration Number	2518
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4044	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92																																																																														
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>564.8381</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.7314754</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>15.2198</td><td>15.2198</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0141235</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.1444142</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>513.5038</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0184713</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>16.7874</td><td>16.7874</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0000936</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>438.4431</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0496458</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>19.6585</td><td>19.6585</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0036426</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0002538</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0039844</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1751544</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.1854</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.5081</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-1.6015</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>17.1089</td><td>17.1089</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0111404</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0272676</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0300077</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0310508</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	564.8381	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.7314754	--	FE BAG 1 (Bag 1 Fuel Economy)	15.2198	15.2198	CH4 BAG 1 (Bag 1 Methane)	0.0141235	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1444142	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	513.5038	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0184713	--	FE BAG 2 (Bag 2 Fuel Economy)	16.7874	16.7874	CH4 BAG 2 (Bag 2 Methane)	0.0000936	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	438.4431	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0496458	--	FE BAG 3 (Bag 3 Fuel Economy)	19.6585	19.6585	CH4 BAG 3 (Bag 3 Methane)	0.0036426	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0002538	--	METHANE (CH4 - Methane)	0.0039844	--	CO (Carbon Monoxide)	0.1751544	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.1854	--	DT-EER (Drive Trace Energy Economy Rating)	-0.5081	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.6015	--	MFR FE (Manufacturer Fuel Economy)	17.1089	17.1089	NOX (Nitrogen Oxide)	0.0111404	--	HC-NM (Non-methane Hydrocarbon)	0.0272676	--	NMOG (Non-methane organic gases)	0.0300077	--	HC-TOTAL (Total Hydrocarbon)	0.0310508	--		
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																														
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	564.8381	--																																																																														
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.7314754	--																																																																														
	FE BAG 1 (Bag 1 Fuel Economy)	15.2198	15.2198																																																																														
	CH4 BAG 1 (Bag 1 Methane)	0.0141235	--																																																																														
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1444142	--																																																																														
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	513.5038	--																																																																														
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0184713	--																																																																														
	FE BAG 2 (Bag 2 Fuel Economy)	16.7874	16.7874																																																																														
	CH4 BAG 2 (Bag 2 Methane)	0.0000936	--																																																																														
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--																																																																														
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	438.4431	--																																																																														
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0496458	--																																																																														
	FE BAG 3 (Bag 3 Fuel Economy)	19.6585	19.6585																																																																														
	CH4 BAG 3 (Bag 3 Methane)	0.0036426	--																																																																														
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0002538	--																																																																														
	METHANE (CH4 - Methane)	0.0039844	--																																																																														
	CO (Carbon Monoxide)	0.1751544	--																																																																														
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.1854	--																																																																														
	DT-EER (Drive Trace Energy Economy Rating)	-0.5081	--																																																																														
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.6015	--																																																																														
	MFR FE (Manufacturer Fuel Economy)	17.1089	17.1089																																																																														
	NOX (Nitrogen Oxide)	0.0111404	--																																																																														
	HC-NM (Non-methane Hydrocarbon)	0.0272676	--																																																																														
	NMOG (Non-methane organic gases)	0.0300077	--																																																																														
	HC-TOTAL (Total Hydrocarbon)	0.0310508	--																																																																														
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>503.5127</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	503.5127	--																																																																									
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																															
Carbon dioxide	503.5127	--																																																																															
Manufacturer Test Comments	50F EXHAUST EC Test No. 24040369																																																																																

Certification Summary Information Report

Test Group		VPRXV04.0S92				Evaporative/Refueling Family				VPRXR0170R92		
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	0.18	--	--	--	0.07	--	0.2	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.03	--	1.1	--	0.0041	--	0.034	99.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0411	--	1.1	--	--	--	0.046	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0111	--	--	--	0.0012	--	0.012	99.999	Pass

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088380	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	10/25/2024	Fuel	Gasoline
Fuel Batch ID	23W	Fuel Calibration Number	2518
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4280	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO BAG 1 (Bag 1 Carbon Monoxide)	0.0277022	--
CH4 BAG 1 (Bag 1 Methane)	0.0010458	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0008143	--
METHANE (CH4 - Methane)	0.0010458	--
CO (Carbon Monoxide)	0.0277022	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.6476	--
DT-EER (Drive Trace Energy Economy Rating)	0.0265	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.9948	--
MFR FE (Manufacturer Fuel Economy)	24.6965	24.6965
NOX (Nitrogen Oxide)	0.0011779	--
HC-NM (Non-methane Hydrocarbon)	0.0007906	--
NMOG (Non-methane organic gases)	0.0008143	--
HC-TOTAL (Total Hydrocarbon)	0.0018019	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	349.0731	349

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	349.0241	--

Manufacturer Test Comments

HWY EXHAUST EC Test No. 24040341

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family					VPRXR0170R92		
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	CREE	349	--	--	--	0	--	349	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0008	--	--	--	0.0041	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.002	--	--	--	--	--	0.007	.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0012	--	--	--	0.0012	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0008	--	--	--	0.0041	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.002	--	--	--	--	--	0.007	.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0012	--	--	--	0.0012	--	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	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088379	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	10/25/2024	Fuel	Gasoline
Fuel Batch ID	23W	Fuel Calibration Number	2518
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4302	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92																																																																					
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>590.3239</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.0081928</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>14.603</td><td>14.603</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0022825</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0026878</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>403.0156</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0107998</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>21.3896</td><td>21.3896</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0011601</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0017831</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0014092</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0102212</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-2.7987</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.1046</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-5.593</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>19.3897</td><td>19.3897</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0074282</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0019261</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0019839</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0011157</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0032888</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	590.3239	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.0081928	--	FE BAG 1 (Bag 1 Fuel Economy)	14.603	14.603	CH4 BAG 1 (Bag 1 Methane)	0.0022825	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0026878	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	403.0156	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0107998	--	FE BAG 2 (Bag 2 Fuel Economy)	21.3896	21.3896	CH4 BAG 2 (Bag 2 Methane)	0.0011601	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0017831	--	METHANE (CH4 - Methane)	0.0014092	--	CO (Carbon Monoxide)	0.0102212	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.7987	--	DT-EER (Drive Trace Energy Economy Rating)	-1.1046	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.593	--	MFR FE (Manufacturer Fuel Economy)	19.3897	19.3897	NOX (Nitrogen Oxide)	0.0074282	--	N2O (Nitrous Oxide)	0	--	HC-NM (Non-methane Hydrocarbon)	0.0019261	--	NMOG (Non-methane organic gases)	0.0019839	--	PM (Particulate Matter)	0.0011157	--	HC-TOTAL (Total Hydrocarbon)	0.0032888	--		
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																					
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	590.3239	--																																																																					
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.0081928	--																																																																					
	FE BAG 1 (Bag 1 Fuel Economy)	14.603	14.603																																																																					
	CH4 BAG 1 (Bag 1 Methane)	0.0022825	--																																																																					
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0026878	--																																																																					
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	403.0156	--																																																																					
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0107998	--																																																																					
	FE BAG 2 (Bag 2 Fuel Economy)	21.3896	21.3896																																																																					
	CH4 BAG 2 (Bag 2 Methane)	0.0011601	--																																																																					
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0017831	--																																																																					
	METHANE (CH4 - Methane)	0.0014092	--																																																																					
	CO (Carbon Monoxide)	0.0102212	--																																																																					
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.7987	--																																																																					
	DT-EER (Drive Trace Energy Economy Rating)	-1.1046	--																																																																					
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.593	--																																																																					
	MFR FE (Manufacturer Fuel Economy)	19.3897	19.3897																																																																					
	NOX (Nitrogen Oxide)	0.0074282	--																																																																					
	N2O (Nitrous Oxide)	0	--																																																																					
	HC-NM (Non-methane Hydrocarbon)	0.0019261	--																																																																					
	NMOG (Non-methane organic gases)	0.0019839	--																																																																					
	PM (Particulate Matter)	0.0011157	--																																																																					
	HC-TOTAL (Total Hydrocarbon)	0.0032888	--																																																																					
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>444.6128</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	444.6128	--																																																																
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																																					
	Carbon-Related Exhaust Emissions	444.6128	--																																																																					
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>444.5868</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	444.5868	--																																																																
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																						
Carbon dioxide	444.5868	--																																																																						
Manufacturer Test Comments	US06 EXHAUST EC Test No. 24040347																																																																							

Certification Summary Information Report

Test Group		VPRXV04.0S92				Evaporative/Refueling Family				VPRXR0170R92		
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	0.01	--	--	--	0.07	--	0.1	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.002	--	1.1	--	0.0041	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0074	--	--	--	0.0012	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0011	--	--	--	0.0003	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.01	--	--	--	0.07	--	0.1	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.002	--	1.1	--	0.0041	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0094	--	--	--	--	--	0.015	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0074	--	--	--	0.0012	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0011	--	--	--	0.0003	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10088377	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	10/15/2024	Fuel	Gasoline
Fuel Batch ID	23W	Fuel Calibration Number	2518
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4063	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO BAG 1 (Bag 1 Carbon Monoxide)	0.0375256	--
CH4 BAG 1 (Bag 1 Methane)	0.0024036	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0001485	--
METHANE (CH4 - Methane)	0.0024036	--
CO (Carbon Monoxide)	0.0375256	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.1327	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1819	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.8249	--
MFR FE (Manufacturer Fuel Economy)	15.3826	15.3826
NOX (Nitrogen Oxide)	0.007625	--
HC-NM (Non-methane Hydrocarbon)	0.0001441	--
NMOG (Non-methane organic gases)	0.0001485	--
HC-TOTAL (Total Hydrocarbon)	0.002223	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	560.3646	--

Manufacturer Test Comments

SC03 EXHAUST EC Test No. 24040365

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family					VPRXR0170R92		
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	0.04	--	--	--	0.07	--	0.1	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0001	--	1.1	--	0.0041	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0076	--	--	--	0.0012	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.04	--	--	--	0.07	--	0.1	999.9	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0001	--	1.1	--	0.0041	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0076	--	--	--	0.0012	--	0.009	999.999	Pass

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92					
Emission Data Vehicle Information								
Vehicle ID / Configuration	FE-992-25 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	SPRXV03.0C92	Original Evaporative/Refueling Family	SPR XR0170R92					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	911 Carrera Cabriolet					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	0	Odometer Correction Factor	0.992					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	DYH	Rated Horsepower	388					
Displacement (liters)	3							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel					
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	3620	Equivalent Test Weight (pounds)	4000					
GVWR (lbs)	4442	N/V Ratio	23.3					
Axle Ratio	3.12							
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	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
-------------------	--------------	-------------------------------------	--------------

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	38.37	0.5355	0.01609	-1.56	0.1633	0.01698	14
Cold CO	42.2	0.589	0.0198	17.22	-0.0006	0.01948	N/A
US06	38.37	0.5355	0.01609	-1.56	0.1633	0.01698	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Test Vehicle: 911 Carrera Cabriolet; Porsche Internal Name: SEP325, Exhaust and Evaporvative Emissions

Test #	SPRX10086627	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SPRX10086626	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/19/2024	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	970
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	IDIADA-Santa Oliva		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	7177	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.224	--

Manufacturer Test Comments 3DD; INTERNAL TEST #LM240402101c1

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	0.224	0	0.224	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.224	0	0.224	0.3	Pass

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10086811	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	SPRX10086625	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	03/27/2024	Fuel	Gasoline
Fuel Batch ID	W22	Fuel Calibration Number	24
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	6874	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1726	--

Manufacturer Test Comments2DD; INTERNAL TEST #24022925

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	0.1726	0	0.173	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1726	0	0.173	0.3	Pass

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92						
Test #	SPRX10086624	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	SPRX10086623	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	03/26/2024	Fuel	Gasoline						
Fuel Batch ID	W22	Fuel Calibration Number	24						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Porsche AG, Labs and Engineering								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	6825	Odometer Units	K						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes						
Test Results									
<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>0.0074</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)	0.0074	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.0074	--							
Manufacturer Test Comments									
ORVR; INTERNAL TEST #24022944									
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	0.007	0.003	0.01	0.2	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.007	0.003	0.01	0.2	Pass	

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Test #	SPRX10086628	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SPRX10086626	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/19/2024	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	970
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	IDIADA-Santa Oliva		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	7150	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--

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 EVAP; INTERNAL TEST #LM2404021_01

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

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92						
Test #	SPRX10086629	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	04/10/2024	Fuel	Gasoline						
Fuel Batch ID	W22	Fuel Calibration Number	24						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Porsche AG, Labs and Engineering								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	7079	Odometer Units	K						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.00244</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00244	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00244	--							
Manufacturer Test Comments									
BETP EVAP; INTERNAL TEST #24025778									
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	0.0024	0	0.002	0.02	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0024	0	0.002	0.02	Pass	

Certification Summary Information Report

Test Group	VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Fuel Properties			
Fuel Batch ID	60626	Fuel Calibration Number	970
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/20/2023
Fuel Batch Calibration Effective Date	11/20/2023	Fuel Batch Calibration Ineffective Date	11/30/2027
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)	17936
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	23W	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)	41.76	Fuel Carbon Mass Fraction (E10)	0.827
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	W24	Fuel Calibration Number	1558
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	07/23/2024
Fuel Batch Calibration Effective Date	07/23/2024	Fuel Batch Calibration Ineffective Date	07/23/2028

Certification Summary Information Report

Test Group		VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	--		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18439
Fuel Net Heat of Combustion (E10) (MJ/kg)	--		Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866		Weight Fraction CO2	--
Fuel Batch ID	22W		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	--
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)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.82		Fuel Carbon Mass Fraction (E10)	0.824
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family		VPRXR0170R92		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.07	1.7
4,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.016
4,000 miles	NMOG	--	--	1.1	--	--	--	0.0041	99.999
4,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.0053	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.0012	99.999
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			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	.030
120,000 miles	N2O	--	--	--	--	--	--	0	.010
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0.07	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.9
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0041	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.0053	.070
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0.0053	.080
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0003	.003

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family			VPRXR0170R92	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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	.030
120,000 miles	N2O	--	--	--	--	--	--	0	.010
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7
150,000 miles	HCHO	--	--	--	--	--	--	0.0064	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0041	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.0053	.070
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0003	.003

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	999.9
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0041	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.0041	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0053	.070
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family			VPRXR0170R92	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.07	10.0
150,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	9.6
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0041	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0053	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0003	0.006

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	99.9
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0041	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0003	0.006

Certification Summary Information Report

Test Group		VPRXV04.0S92			Evaporative/Refueling Family			VPRXR0170R92	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	999.9
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0041	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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
120,000 miles	CREE	--	--	--	--	--	--	0	999.9
150,000 miles	NMOG	--	--	--	--	--	--	0.0041	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0053	.070
150,000 miles	NOX	--	--	--	--	--	--	0.0012	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.07	10.0
150,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Evaporative/Refueling Standards

Evaporative/Refueling Family		VPRXR0170R92		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		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		

Certification Summary Information Report

Test Group		VPRXV04.0S92		Evaporative/Refueling Family		VPRXR0170R92	
Evaporative/Refueling Family		VPRXR0170R92		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		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		
Evaporative/Refueling Family		VPRXR0170R92		Cert Region		Federal	
Cert/In-Use Code		Cert		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	0.003		
Evaporative/Refueling Family		VPRXR0170R92		Cert Region		Federal	
Cert/In-Use Code		Cert		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		
Evaporative/Refueling Family		VPRXR0170R92		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-III 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		VPRXR0170R92		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		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	0.003		

Certification Summary Information Report

Test Group		VPRXV04.0S92		Evaporative/Refueling Family		VPRXR0170R92					
Evaporative/Refueling Family		VPRXR0170R92		Cert Region		Federal					
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap					
Test Procedure		Evap Canister Bleed Test									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.020		0	
Evaporative/Refueling Family		VPRXR0170R92		Cert Region		California + CAA Section 177 states					
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)					
Test Procedure		Evap Canister Bleed Test									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.020		0	
Evaporative/Refueling Family		VPRXR0170R92		Cert Region		Federal					
Cert/In-Use Code		Cert		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		VPRXR0170R92		Cert Region		Federal					
Cert/In-Use Code		Cert		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	

Certification Summary Information Report

Test Group		VPRXV04.0S92	Evaporative/Refueling Family	VPRXR0170R92
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		VPRXV04.0S92	Evaporative/Refueling Family		VPRXR0170R92
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		VPRXV04.0S92	Evaporative/Refueling Family		VPRXR0170R92
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		VPRXV04.0S92	Evaporative/Refueling Family		VPRXR0170R92
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	