

PORSCHE

Application for Certification: Initial Part 1
Model Year: 2023
Durability Group: PPRXGPGNNS92
Test Group: PPRXV04.0S92
**Evaporative/Refueling
Family(ies):** PPRXR0115R82
PPRXR0170R92

Certification Summary CSI-PPRXV04.0S92-PPRXR0115R82
Information Report Number(s): CSI-PPRXV04.0S92-PPRXR0170R92

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

Test Group Description: 4.0 Liter 6-Cylinder PC (Passenger Car)

Applicable Standards: EPA Exhaust: BIN 125
CARB Exhaust: ULEV 125
EPA Evap: Tier 3
CARB Evap: LEV III

Carlines Covered:

718 GT4 RS 911 GT3 Touring (PDK) 911 GT3 (PDK) 911 GT3 Touring (Manual) 911 GT3 (Manual)	
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Vehicles Tested: Exhaust: ECFE-992GT3-22
Evap: EC-992S-PDK-20
Second Evap: EC-982-PDK-22

EPA Response Requested By: 27-Jun-22

Special Instructions: Exhaust: Carryover
Evap: Carryover

For Questions Contact: Peter Khamphouvong -- (770) 290-3068
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Section 1~Correspondence and Communications

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Please mail official
correspondence to:

Mr. Michael Scott -- address as above

Section 2~Durability Group Description

Durability Group Name: PPRXGPGNNS92

Combustion Cycle: 4-stroke otto

Engine Type: 6-cylinder, horizontal arrangement

Fuel Used: gasoline

Basic Fuel Metering System: direct injection

Catalyst Construction: monolith (ceramic)

Catalyst Type: Pd/Rh 3-way cat

Model(s):

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):

911 GT3 Series	718 Cayman GT4 RS Series
Primary Only [0:7:1]	Both [0:14:1] [0:103:15]
4.856	2.415
	4.937
2	2
9.71	14.70

	<u>GS</u>	<u>% of Max GS</u>
911 GT3 Series	2.4	66%
718 Cayman GT4 RS Series	3.7	100%

The Grouping Statistic exceeds the typically allowed range, but Porsche received Administrator Approval to group these vehicle in the same test group, due to the high catalyst loading of the GT4 RS and the use of Assigned DFs (11/23/2021)

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Section 3~Evaporative / Refueling Family Description

Evaporative/Refueling Families

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

Family Name	PPRXR0170R92
Carryover Family	MPRXR0170R92
Models Covered	All 911s
In-Use Performance	To date, no Porsche vehicle ORVR systems have exhibited problems in the field.
ORVR Family	This ORVR system is based on the MY 2010 family BPRXR0200RPD, which was originally approved by EPA 8/21/2009. (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

Family Name	PPRXR0115R82
Carryover Family	NPRXR0115R82
Models Covered	Boxster/Cayman 4 and 6-Cylinder
In-Use Performance	To date, no Porsche vehicle ORVR systems have exhibited problems in the field.
ORVR Family	This ORVR system is based on the MY 2010 family BPRXR0200RPD, which was originally approved by EPA 8/21/2009. (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):

Additive exhaust Deterioration Factors are assigned DFs, extrapolated to 150K from Tier 2 Bins 2-3 category, as needed, pursuant to CD-12-07 (revised March 30, 2012). CH₄ and N₂O ADFs are from VWGoA, as approved by EPA.

<u>Basis</u>	<u>NMOG</u>	<u>NO_x</u>	<u>NMOG + NO_x</u>	<u>CO</u>	<u>HCHO</u>	<u>N₂O</u>	<u>CH₄</u>	<u>PM</u>	<u>CREE</u>
150K *	0.0155	0.0176	0.0331	0.37	0.0004	0.0017	0.0029	0.0001	0.63

* N₂O and CH₄ basis is 120K

Evaporative Deterioration Factors:

PPRXR0170R92

Additive evaporative Deterioration Factors were developed new by Porsche for MY '21 using bench aging procedures.

<u>Basis</u>	<u>2-day</u>	<u>3-day</u>	<u>RL</u>	<u>ORVR</u>
150K	0.0000	0.0000	0.0000	0.003

PPRXR0115R82

Assigned DF

<u>Basis</u>	<u>2-day</u>	<u>3-day</u>	<u>RL</u>	<u>ORVR</u>
150K	0.0126	0.0164	0.000	0.006

Section 5~Test Group Description

Durability Group Name:	PPRXGPGNNS92
Test Group Name:	PPRXV04.0S92
Certification Summary Information Reports:	CSI-PPRXV04.0S92-PPRXR0115R82 CSI-PPRXV04.0S92-PPRXR0170R92
No. Cylinders and Arrangement	6-cylinder, horizontal arrangement
Engine Displacement:	4.0 Liter
Vehicle Classe(s):	PC
NLEV Participation:	No
Emissions Standards Class:	Federal: BIN 125 California: ULEV 125
Applicable Emissions Standards:	Please refer to the Certification Summary Information Report in Section 7
Hybrid Description:	N/A
High Voltage Battery Description:	Type : N/A Nominal Voltage : N/A Usable Capacity : N/A Grid Charge Voltage : N/A
Electric Motor Description:	Type : N/A Nominal Voltage : N/A Rated Power (kW) : N/A

Section 6~Test Vehicle Description

6.01>> Test Vehicles

	Test Vehicle ID	Vehicle/Config Purpose
Certification Test Vehicles:	ECFE-992GT3-22	Exhaust Emissions
	EC-992S-PDK-20	Evaporative Data (911 Models)
	EC-982-PDK-22	Evaporative Data (718 Models)
Durability Test Vehicles:	DDV-992C4S-PDK-21	Exhaust Durability
	EVAPDDV-992-20	Evap Durability
	EC-982-PDK-22	Evap Durability

Test Vehicle Information	Exhaust	Evaporative	Evaporative
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Test Group Name	NPRXV04.0S92	NPRXV04.0S92	NPRXV02.5B82
Evaporative Family Name	NPRXR0170R92	NPRXR0170R92	NPRXR0115R82
Test Vehicle ID	ECFE-992GT3-22	ECFE-992GT3-22	EC-982-PDK-22
Test Vehicle Model Name	992 GT3 Touring PDK	911 Carrera S	Boxster PDK
Engine Code	DSC	DSC	DDP
Displacement (L)	4.0	4.0	2.0
Rated Engine Power (HP)	502	502	300
Transmission	A7	A7	A7
Equivalent Test Weight (ETW) (lbs)	3625	3625	3500
Gross Vehicle Weight (lbs)	3871	3871	3715
Axle Ratio	4.19	4.19	3.62
Drive Mode for Testing	RWD	RWD	RWD
SIL usage	No	No	No
Start - Stop	Yes	Yes	Yes
Aged components	No	No	No
Fuel	Gasoline	Gasoline	Gasoline
Drive Source	ICE	ICE	ICE
Fuels stored separately or together	N/A	N/A	N/A
Fuels combusted separately or together	N/A	N/A	N/A
RESS type	N/A	N/A	N/A
Off-board charge capable	N/A	N/A	N/A
Regenerative Braking	N/A	N/A	N/A

Note: blank cells or tables are intentionally blank

Section 6~Test Vehicle Description

6.02>> Test Parameters, Instructions

Carlines		911 GT3 Series		718 Cayman GT4 RS Series
Engine Starting Procedures		1) Depress brake pedal 2) Set gear selector to position "P" 3) Turn ignition key clockwise to crank (do not depress accelerator pedal), release key as soon as engine starts 4) If engine fails to start within 15 seconds, turn ignition key to the OFF position, wait 10 seconds, then restart		
Transmission Shift Schedules, Mode	Transmission	Automatic, 7-speed		Automatic, 7-speed
	1st to 2nd	N/A		N/A
	2nd to 3rd	N/A		N/A
	3rd to 4th	N/A		N/A
	4th to 5th	N/A		N/A
	5th to 6th	N/A		N/A
	6th to 7th	N/A		N/A
	7th to 8th	N/A		N/A
	SS II.D.	FTP – FTA; HWFE - HWA		FTP – FTA; HWFE - HWA
	Transmission Mode	Auto Mode: operate in "D" and auto mode only. Do not shift manually		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		Leave in default mode -- indicator on center console should not be illuminated
	Other (Sport, Wet, etc.)	Leave all selectable mode buttons in default		Leave all selectable mode buttons in default
Other	Cooling fan	One road-speed fan, centered upright, front of vehicle		One road-speed fan, centered upright, front of vehicle
	Body apertures	Front-engined vehicles; Leave all apertures closed		Front-engined vehicles; Leave all apertures closed
	Test lab considerations	Porsche can supply instructions separately for E-Brake, Dyno Mode, Soak Area, and Canister loading		Porsche can supply instructions separately for E-Brake, Dyno Mode, Soak Area, and Canister loading

Note: blank cells or tables are intentionally blank

Section 6~Test Vehicle Description

6.03>> Dynamometer Parameters

Carline	Trans	ETW [lbf]	Single Roll Coefficients (target)		
			A [lbf]	B [lbf/mph]	C [lbf/mph ²]
ECFE-992GT3-22	A7	3625	45.209	0.54780	0.016980
EC-992S-PDK-20	A8	3875	43.905	0.68090	0.014288
EC-982-PDK-22	A7	3500	40.106	0.62700	0.012400

Carline	Trans	ETW [lbf]	Single Roll Coefficients (set)		
			A [lbf]	B [lbf/mph]	C [lbf/mph ²]
ECFE-992GT3-22	A7	3625	25.934	0.20620	0.019020
EC-992S-PDK-20	A8	3875	23.268	0.27062	0.016885
EC-982-PDK-22	A7	3500	6.072	-0.20220	0.018280

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

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Section 6~Test Vehicle Description

6.04>> FTTP Summary

Carlines	911 Carrera w/67 L Tank	
Evaporative Testing Parameters	Canister Loading	Canister Working Capacity = 130g
	FTTP REPORT ID *	2727-20180810-01

TEST RESULTS

Weather Conditions

- The ambient temperature was 95.46°F when the FTTP test cycle began.
- The surface temperature was 143.15°F when the FTTP test cycle began.
- Both temperatures met the minimum temperature specifications as well as the minimum delta for the duration of the test cycle.
- There was minimal cloud cover for the entirety of the test cycle, less than 25% cloud coverage.
- The average wind speed for the duration of the test was 3.27 mph.
- The maximum wind speed for the duration of the test was 10.94 mph

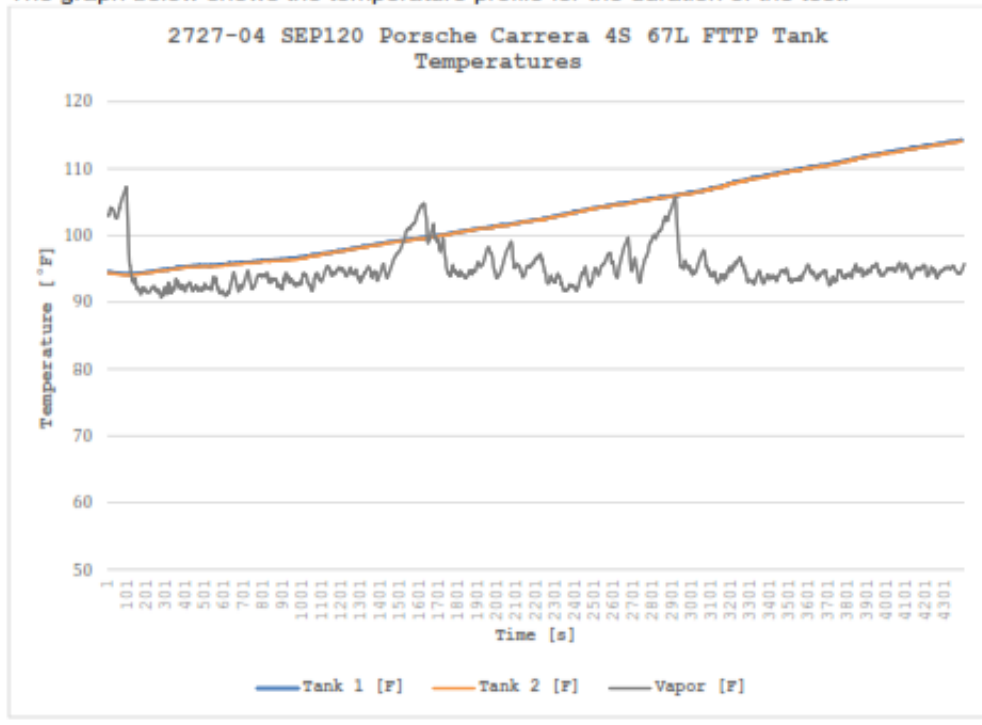
Vehicle Test Data

Fuel Tank Temp 1 started at 94.56°F and ended at 114.25°F

Fuel Tank Temp 2 started at 94.36°F and ended at 114.2°F

Vapor Temp started at 103.03°F and ended at 95.73°F

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



* Full report is available for review

Section 6~Test Vehicle Description

6.04>>Evaporative Parameters (continued)

Carlines	All 718 Models	
Evaporative Testing Parameters	Canister Loading	Canister Working Capacity = 115g
	FTTP REPORT ID *	2727-20180810-01

PRIMARY TEST RESULTS

TEST RESULTS

Weather Conditions

- The ambient temperature was 99.19°F when the FTTP test cycle began.
- The surface temperature was 141.64°F when the FTTP test cycle began.
- Both temperatures met the minimum temperature specifications as well as the minimum delta for the duration of the test cycle.
- There was minimal cloud cover for the entirety of the test cycle, less than 25% cloud coverage.
- The average wind speed for the duration of the test was 3.94 mph.
- The maximum wind speed for the duration of the test was 10.82 mph

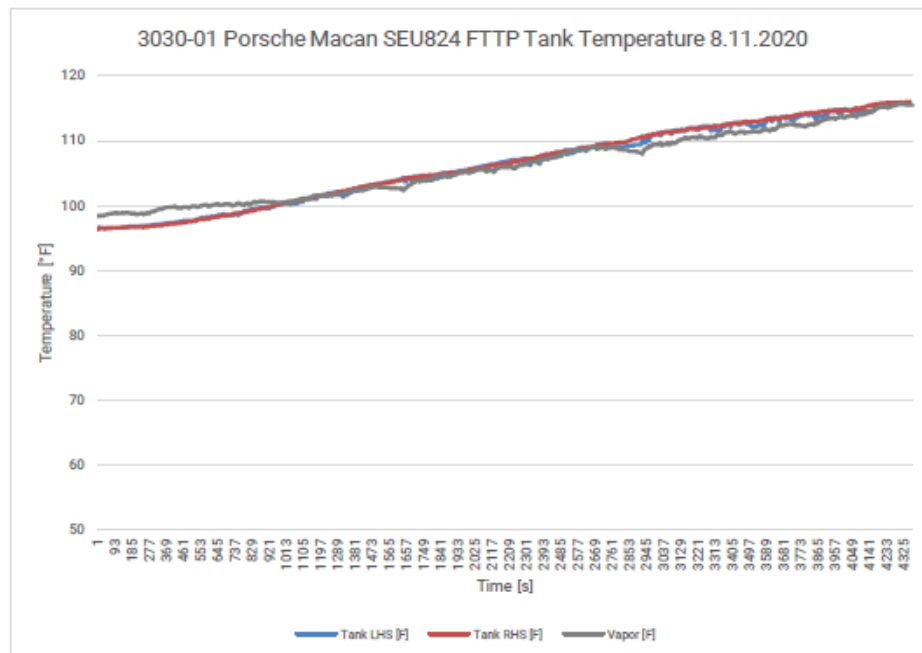
Vehicle Test Data

Fuel Tank Temp LHS started at 96.36°F and ended at 115.88°F

Fuel Tank Temp RHS started at 96.22°F and ended at 116.06°F

Vapor Temp started at 98.19°F and ended at 115.53°F

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



* Full report is available for review

Section 6~Test Vehicle Description

6.05>> Durability Test Vehicle(s)

Exhaust and evaporative durability vehicle information follows this page.

Verify Processing Report

Total Datasets Submitted: 1

Accepted Datasets: 1

Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : N

EPA Manufacturer Code : PRX

Vehicle Identification Text : DDV-992C4S-PDK-21

Vehicle Configuration Number : 0

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0

Test Group Name : MPRXV03.0C92

Evaporative Refueling Family Name : MPRXR0170R92

Model Year : 2021

Actual Test Vehicle Make Text : Porsche

Actual Test Vehicle Model Text : 911 Targa 4S

Drive Source Details

Drive Source Identifier : C

Fuel Identifier : G

Test Drive Code : R

Shift Indicator Light Usage Identifier : 1

Aged Component Usage Identifier : 4

Odometer Correction Details

Correction Initial Value : 0

Correction Factor Value : 0

Correction Sign Identifier : +

Correction Units Code : M

Engine Code Text : DKK

Engine Rated Horsepower Value : 443

Engine Displacement Value : 3.0

Air Aspiration Details

Air Aspiration Method Identifier : TC
Air Aspiration Device Count : 2
Air Aspiration Configuration Identifier : P

Charge Air Cooler Identifier : A
Emissions Control Device Comments Text : 2TWC/MAP/DFI/2WR-HO2S/2HO2S/2TC/CAC

Vehicle Specifications Details

Curb Weight Value : 3686
Equivalent Test Weight Value : 4000
Gross Vehicle Weight Rating Value : 4597
NV Ratio Value : 23.3
Axle Ratio Value : 3.12

Transmission Specifications Details

Light Duty Transmission Type Identifier : AMS
Transmission Lockup Indicator : N
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 8

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO
Target CoefficientA Value : 45.411
Target CoefficientB Value : 0.72359
Target CoefficientC Value : 0.017159
Set CoefficientA Value : 31.743
Set CoefficientB Value : 0.25072
Set CoefficientC Value : 0.018993

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 45.411
Target CoefficientB Value : 0.72359
Target CoefficientC Value : 0.017159
Set CoefficientA Value : 31.743
Set CoefficientB Value : 0.25072
Set CoefficientC Value : 0.018993

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 45.411
Target CoefficientB Value : 0.72359
Target CoefficientC Value : 0.017159
Set CoefficientA Value : 31.743

Set CoefficientB Value : 0.25072
Set CoefficientC Value : 0.018993

Manufacturer Comment Text : Durability Development Vehicle (exhaust); Internal:
SEP127

EPA Generated Test Vehicle Details

Original Receipt Date : 20200701
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 4141
Loaded Vehicle Weight Value : 3986
Total Road Load Horsepower Value : 16.6

Transaction Status Details

Transaction Status Identifier : ACCEPTED

Verify Processing Report

Total Datasets Submitted: 1

Accepted Datasets: 1

Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : N

EPA Manufacturer Code : PRX

Vehicle Identification Text : EVAPDDV-992-20

Vehicle Configuration Number : 0

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0

Test Group Name : MPRXV03.0C92

Evaporative Refueling Family Name : MPRXR0170R92

Model Year : 2021

Actual Test Vehicle Make Text : Porsche

Actual Test Vehicle Model Text : 911 Carrera S

Drive Source Details

Drive Source Identifier : C

Fuel Identifier : G

Test Drive Code : R

Shift Indicator Light Usage Identifier : 1

Aged Component Usage Identifier : 150

Odometer Correction Details

Correction Initial Value : 0

Correction Factor Value : 0

Correction Sign Identifier : +

Correction Units Code : M

Engine Code Text : DKK

Engine Rated Horsepower Value : 443

Engine Displacement Value : 3.0

Air Aspiration Details

Air Aspiration Method Identifier : TC
Air Aspiration Device Count : 2
Air Aspiration Configuration Identifier : P

Charge Air Cooler Identifier : A
Emissions Control Device Comments Text : 2TWC/MAP/DFI/2WR-HO2S/2HO2S/2TC/CAC

Vehicle Specifications Details

Curb Weight Value : 3382
Equivalent Test Weight Value : 3750
Gross Vehicle Weight Rating Value : 4376
NV Ratio Value : 27.2
Axle Ratio Value : 3.56

Transmission Specifications Details

Light Duty Transmission Type Identifier : M
Transmission Lockup Indicator : N
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 7

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 43.725
Target CoefficientB Value : 0.51013
Target CoefficientC Value : 0.014847
Set CoefficientA Value : 27.517
Set CoefficientB Value : 0.43090
Set CoefficientC Value : 0.015604

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 43.725
Target CoefficientB Value : 0.51013
Target CoefficientC Value : 0.014847
Set CoefficientA Value : 27.517
Set CoefficientB Value : 0.43090
Set CoefficientC Value : 0.015604

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO
Target CoefficientA Value : 43.725
Target CoefficientB Value : 0.51013
Target CoefficientC Value : 0.014847
Set CoefficientA Value : 27.517

Set CoefficientB Value : 0.43090
Set CoefficientC Value : 0.015604

Manufacturer Comment Text : EVAP DF Development Vehicle, for 911 Carrera Series and Turbo Series Models; VIN: WPOAB2A90LS225065

EPA Generated Test Vehicle Details

Original Receipt Date : 20200723
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3879
Loaded Vehicle Weight Value : 3682
Total Road Load Horsepower Value : 14.2

Transaction Status Details

Transaction Status Identifier : ACCEPTED

Section 6~Test Vehicle Description

6.06>> Evaporative System Grouping--992

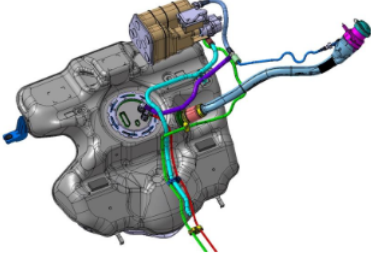
Porsche 911 Carrera and Turbo models (generation "992") evaporative systems including the following fuel tank options:

- 1) 64 L (16.9 gallon) and 67 L (17.7 gallon) fuel tanks with a 130 gram canister, 2.4 L bed volume;
- 2) The 64 L tank is standard on the Turbo models, AWD Carreras, and GT3 models, and the 67 L tank is standard on 2WD Carreras.
- 3) An optional 90 L (23.8 gallon) fuel tank with a 170 g canister, 2.9 L bed volume. This tank is available only on 2WD models, which are Carreras and GT3s.

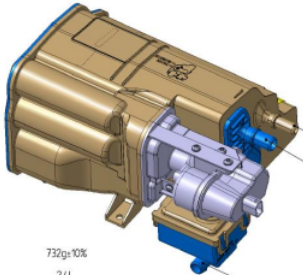
The evaporative systems are identical, except for the larger canister on the 90 L tank system.

Although the two evaporative systems differ by more than 10 grams capacity, the two systems are grouped together into one family, with EPA approval. Porsche is using the worst case DF and the worst case test results, and the requirements of CFR 86.1821-01 are met.

Fuel tank nominal volume	64 L and 67 L	90 L
Canister working capacity	130 g	170 g
Canister bed volume	2.4 L	2.9 L



Trockenmasse:
dry mass:
Beßvolumen:
bed volume:
Speicherkapazität:
storage capacity:
 732g±10%
2.4L
±130g
(nach CFR40 §66
(in per))



Trockenmasse:
dry mass:
Beßvolumen:
bed volume:
Speicherkapazität:
storage capacity:
 905g±10%
2.9L
±170g
(nach CFR40 §66
(in per))

Section 7~Test Results

7.01>> Exhaust / Evaporative Standards

Exhaust Standards: Federal: **BIN 125** California: **ULEV 125**

Test Cycle	Constituent	Certification Standard (g/mi)		High Altitude (g/mi)	In-Use Standard (g/mi)	
		Federal	California		Federal	California
FTP	NMOG+NOx	0.125	0.125	0.160	0.125	0.125
	CO	2.1	2.1	2.1	2.1	2.1
	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	0.125	0.125	0.105	0.125	0.125
SFTP	Composite NMOG+NOx	0.100	0.100	0.100	0.100	0.100
	Composite CO	4.2	4.2	4.2	4.2	4.2
	Fleet Average NMOG+NOX	0.063	0.063	N/A	0.063	0.063
US06	PM	0.006	0.006	0.006	0.010	0.010
Cold CO	CO	10.0	10.0	n/a	10.0	10.0
	NMHC	0.3	0.3	n/a	0.3	0.3
50 Deg F	NMOG+NOx	--	0.140	--	--	--
	CO		2.1			
	HCHO	--	0.016	--	--	--

PPRXR0170R92 Federal: **Tier 3** California: **LEV III**

Test Cycle	Constituent	Certification Standard		High Altitude	In-Use Standard	
		Federal	California		Federal	California
2-Day	HC-EQUIV (g/test)	0.300	0.300	0.65	0.300	0.300
3-Day	HC-EQUIV (g/test)	0.300	0.300	0.65	0.300	0.300
Running Loss	HC-EQUIV (g/mi)	0.05	0.05	0.05	0.05	0.05
ORVR	HC-EQUIV (g/gal)	0.20	0.20	0.20	0.20	0.20
BETP	HC-EQUIV (g/test)	0.020	0.020	n/a	n/a	n/a

PPRXR0115R82 Federal: **Tier 3** California: **LEV III**

Test Cycle	Constituent	Certification Standard		High Altitude	In-Use Standard	
		Federal	California		Federal	California
2-Day	HC-EQUIV (g/test)	0.300	0.300	0.65	0.300	0.300
3-Day	HC-EQUIV (g/test)	0.300	0.300	0.65	0.300	0.300
Running Loss	HC-EQUIV (g/mi)	0.05	0.05	0.05	0.05	0.05
ORVR	HC-EQUIV (g/gal)	0.20	0.20	0.20	0.20	0.20
BETP	HC-EQUIV (g/test)	0.020	0.020	n/a	n/a	n/a

Section 7-Test Results

7.02>> GHG Compliance Statements / Certification Tests

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

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

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:

2023

Certification Tests:

Exhaust Data:

<u>Test Number</u>	<u>Test Type</u>
NPRX10069105	FTP
NPRX10069106	HFET
NPRX10069107	US06
NPRX10069108	SC03
NPRX10069110	Cold CO 50 F

Evaporative Data:

NPRXR0115R82

<u>Test Number</u>	<u>Test Type</u>
NPRX10070224	2-Day Evap
NPRX10070225	3-Day Evap
NPRX10070227	Running Loss
NPRX10070226	ORVR
NPRX10070255	BETP

Certification Tests Used for N₂O and CH₄:

NPRX10069227	FTP
NPRX10069236	HFET

Evaporative Data:

NPRXR0170R92

<u>Test Number</u>	<u>Test Type</u>
MPRX10065417	2-Day Evap
MPRX10065418	3-Day Evap
MPRX10065419	Running Loss
MPRX10065420	ORVR
MPRX10065421	BETP

Section 7-Test Results

7.03>> CSI Report

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

Section 7-Test Results

7.04>> CSI Report, Evap Family PPRXR0170R92

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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	06/29/2022 04:14:07 PM
Model Year	2023		

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	NPRXGPGNNS92	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	--	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	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	NPRXV04.0S92
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	OBD Approval: E-22-091; Deficiencies: Engine start-stop monitoring		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	06/07/2022 02:33:56 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	0	Bleed Canister Total Working Capacity (grams)	--
Mfr Evaporative/Refueling Family Comments	evap system for all MY 2023 911 models (Porsche internal code "992"); 170 g canister is for optional 90 L fuel tank; 130 g canister is used on 64 L and 67 L tanks on Turbos and AWD Carreras; EPA approved Porsche's declaration of worst case 170 g canister in this evap family		
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	--		

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
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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	580 - 911 GT3	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Porsche AG	1 - Porsche	583 - 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	580 - 911 GT3	Federal	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	580 - 911 GT3	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	583 - 911 GT3 Touring	Federal	2-Wheel Drive, Rear	Manual	6	No
Porsche AG	1 - Porsche	583 - 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	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Porsche AG	1 - Porsche	583 - 911 GT3 Touring	California + CAA Section 177 states	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

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	2TWC/DFI/2WR-HO2S/2HO2S/AIR (992 GT3, GT3 Touring, and 718 Cayman GT4 RS)
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
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	Parallel	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	1	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	--		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92								
Engine Configuration Number 2											
Engine Displacement (liters)	4.0	Engine Rated Horsepower	493								
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	Parallel	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	1	Number of Air/Fuel Sensors	4								
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--								
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	--										
Air Injection Type	--	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	--										
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	NPRX10069105	NPRX10069107	NPRX10069108	NPRX10069110	NPRX10069106	--	228.2	--	286.1	--	
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline	NPRX10069105	NPRX10069107	NPRX10069108	NPRX10069106							

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92					
Emission Data Vehicle Information								
Vehicle ID / Configuration	EC-992S-PDK-20 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	MPRXV03.0C92	Original Evaporative/Refueling Family	MPRXR0170R92					
Original Test Vehicle Model Year	2021							
Vehicle Model								
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	911 Carrera S					
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					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	DKK	Rated Horsepower	443					
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)	3382	Equivalent Test Weight (pounds)	3875					
GVWR (lbs)	4376	N/V Ratio	45.3					
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		PPRXV04.0S92			Evaporative/Refueling Family		PPRXR0170R92	
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	43.905	0.6809	0.014288	23.268	0.27062	0.016885	15.2	
Cold CO	43.905	0.6809	0.014288	23.268	0.27062	0.016885	N/A	
US06	43.905	0.6809	0.014288	23.268	0.27062	0.016885	N/A	
Emission Control Device Comments		2TWC/MAP/DFI/2WR-HO2S/2HO2S/2TC/CAC						
Manufacturer Test Vehicle Comments		Models: Also EVAP Data Vehicle for 911 Carrera 2/4 S Coupes, Cabriolets, and Targas - Auto ("PDK"). Internal: SE0386						

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	MPRX10065405	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	08/27/2019	Fuel	N/A
Fuel Batch ID	HC280	Fuel Calibration Number	2
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	3736	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	458.95	--
FE BAG 1 (Bag 1 Fuel Economy)	19.01	19.01
CO2 BAG 2 (Bag 2 Carbon Dioxide)	358.18	--
FE BAG 2 (Bag 2 Fuel Economy)	24.4	24.4
CO2 BAG 3 (Bag 3 Carbon Dioxide)	335.45	--
FE BAG 3 (Bag 3 Fuel Economy)	26.03	26.03
METHANE (CH4 - Methane)	0.00736	--
CO (Carbon Monoxide)	0.1336	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.7653	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3682	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.899	--
HCHO (Formaldehyde)	0.00011	--
MFR FE (Manufacturer Fuel Economy)	23.42	23.42
NOX (Nitrogen Oxide)	0.01127	--
HC-NM (Non-methane Hydrocarbon)	0.01198	--
NMOG (Non-methane organic gases)	0.01316	--
HC-TOTAL (Total Hydrocarbon)	0.01907	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	373.1	999

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Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	MPRX10065406	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	08/30/2019	Fuel	N/A
Fuel Batch ID	HC280	Fuel Calibration Number	2
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	3755	Odometer Units	M
4WD Test Dyno	No	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)	479.92	--
FE BAG 1 (Bag 1 Fuel Economy)	18.18	18.18
CO2 BAG 2 (Bag 2 Carbon Dioxide)	385.93	--
FE BAG 2 (Bag 2 Fuel Economy)	22.64	22.64
CO2 BAG 3 (Bag 3 Carbon Dioxide)	350.54	--
FE BAG 3 (Bag 3 Fuel Economy)	24.89	24.89
METHANE (CH4 - Methane)	0.00431	--
CO (Carbon Monoxide)	0.19508	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.3382	--
DT-EER (Drive Trace Energy Economy Rating)	-0.7426	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.3372	--
HCHO (Formaldehyde)	0.00012	--
MFR FE (Manufacturer Fuel Economy)	22.07	22.07
NOX (Nitrogen Oxide)	0.01389	--
HC-NM (Non-methane Hydrocarbon)	0.01264	--
NMOG (Non-methane organic gases)	0.01388	--
HC-TOTAL (Total Hydrocarbon)	0.0168	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	396.05	999

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Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	MPRX10065407	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	07/24/2019	Fuel	N/A
Fuel Batch ID	HC280	Fuel Calibration Number	2
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	3662	Odometer Units	M
4WD Test Dyno	No	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)	462.34	--
FE BAG 1 (Bag 1 Fuel Economy)	18.86	18.86
CO2 BAG 2 (Bag 2 Carbon Dioxide)	351.61	--
FE BAG 2 (Bag 2 Fuel Economy)	24.85	24.85
CO2 BAG 3 (Bag 3 Carbon Dioxide)	335.05	--
FE BAG 3 (Bag 3 Fuel Economy)	26.06	26.06
METHANE (CH4 - Methane)	0.00729	--
CO (Carbon Monoxide)	0.15689	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.6533	--
DT-EER (Drive Trace Energy Economy Rating)	0.5215	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6787	--
HCHO (Formaldehyde)	0.00009	--
MFR FE (Manufacturer Fuel Economy)	23.6	23.6
NOX (Nitrogen Oxide)	0.01245	--
HC-NM (Non-methane Hydrocarbon)	0.0098	--
NMOG (Non-methane organic gases)	0.01076	--
HC-TOTAL (Total Hydrocarbon)	0.01692	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	370.33	999

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
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	Test Result Name	Unrounded Test Result		Verify Calculated CO2
	Carbon dioxide	370.03		--

Manufacturer Test Comments FTP for 2-day ORVR test, E10 fuel; Porsche Test #1926826 (MZU)

Test #	MPRX10065417	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	MPRX10065405	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/29/2019	Fuel	Gasoline
Fuel Batch ID	HC280	Fuel Calibration Number	2
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	3748	Odometer Units	M
4WD Test Dyno	No	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)	0.2301		--

Manufacturer Test Comments 2-day evap, E10 fuel; Porsche test numbers 1936815 (Hot Soak) and 1930903 (Diurnal)

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	0.2301	0.0000	0.230	0.300	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2301	0.0000	0.230	0.300	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	MPRX10065418	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	MPRX10065406	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/03/2019	Fuel	Gasoline
Fuel Batch ID	HC280	Fuel Calibration Number	2
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	3784	Odometer Units	M
4WD Test Dyno	No	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)	0.2421	--

Manufacturer Test Comments

Representing all 991 models; 3-day evap, E10 fuel; Porsche test number 1928843 (MZU)

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	0.2421	0.0000	0.242	0.300	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2421	0.0000	0.242	0.300	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	MPRX10065419	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	MPRX10065407	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/30/2019	Fuel	Gasoline
Fuel Batch ID	HC280	Fuel Calibration Number	2
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	3766	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00028	--

Manufacturer Test Comments

All model 911 variants; Running Loss test, E10 fuel; Porsche test number 1928818

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-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92						
Test #	MPRX10065420	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	MPRX10065407	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	07/25/2019	Fuel	Gasoline						
Fuel Batch ID	HC280	Fuel Calibration Number	2						
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	3691	Odometer Units	M						
4WD Test Dyno	No	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>0.00856</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)	0.00856	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.00856	--							
Manufacturer Test Comments									
ORVR for evap; E10 fuel; Porsche test number 1926824									
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	0.009	0.003	0.01	0.20	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.009	0.003	0.01	0.20	Pass	

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	MPRX10065421	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	08/09/2019	Fuel	Gasoline
Fuel Batch ID	HC280	Fuel Calibration Number	2
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	4655	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00439	--

Manufacturer Test Comments

Representing all 911 models; BETP; E10 fuel; Porsche test number 1928397

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	0.0044	0.0000	0.004	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0044	0.0000	0.004	0.020	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92					
Emission Data Vehicle Information								
Vehicle ID / Configuration	ECFE-992GT3-22 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	NPRXV04.0S92	Original Evaporative/Refueling Family	NPRXR0170R92					
Original Test Vehicle Model Year	2022							
Vehicle Model								
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	911 GT3 Touring					
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	0.9733					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	DSC	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)	3263	Equivalent Test Weight (pounds)	3625					
GVWR (lbs)	3871	N/V Ratio	43					
Axle Ratio	4.19							
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		PPRXV04.0S92			Evaporative/Refueling Family		PPRXR0170R92	
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	45.209	0.54776	0.016978	25.934	0.20622	0.019016	15.3	
Cold CO	45.209	0.54776	0.016978	25.934	0.20622	0.019016	N/A	
US06	45.209	0.54776	0.016978	25.934	0.20622	0.019016	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Porsche Internal Name: SE0006 Touring PDK - Emissions worst case						

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069105	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/18/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4170	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	510.03	--
FE BAG 1 (Bag 1 Fuel Economy)	17.26	17.26
CO2 BAG 2 (Bag 2 Carbon Dioxide)	487.85	--
FE BAG 2 (Bag 2 Fuel Economy)	18.1	18.1
CO2 BAG 3 (Bag 3 Carbon Dioxide)	423.18	--
FE BAG 3 (Bag 3 Fuel Economy)	20.85	20.85
METHANE (CH4 - Methane)	0.00326	--
CO (Carbon Monoxide)	0.26748	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.318	--
DT-EER (Drive Trace Energy Economy Rating)	-0.184	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.465	--
HCHO (Formaldehyde)	0.00018	--
MFR FE (Manufacturer Fuel Economy)	18.59	18.59
NOX (Nitrogen Oxide)	0.02959	--
N2O (Nitrous Oxide)	0.00007	--
HC-NM (Non-methane Hydrocarbon)	0.01884	--
NMOG (Non-methane organic gases)	0.02073	--
PM (Particulate Matter)	0.00046	--
HC-TOTAL (Total Hydrocarbon)	0.02199	--

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Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family					PPRXR0170R92		
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 125	METHANE	0.0033	--	--	--	0.0029	--	0.006	.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0001	--	--	--	0.0017	--	0.002	.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.27	--	--	--	0.37	--	0.6	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.59	--	--	--	0.37	--	0.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0.63	--	1000	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0207	--	1.10	--	0.0155	--	0.036	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0503	--	1.10	--	--	--	0.083	.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0714	--	1.10	--	0.0331	--	0.071	.100	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0296	--	--	--	0.0176	--	0.047	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0005	--	--	--	0.0001	--	0.001	.003	Pass
CA	120,000 miles	California LEV-III ULEV125	METHANE	0.0033	--	--	--	0.0029	--	0.006	.030	Pass
CA	120,000 miles	California LEV-III ULEV125	N2O	0.0001	--	--	--	0.0017	--	0.002	.010	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.27	--	--	--	0.37	--	0.6	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	CO-COMP	0.59	--	--	--	0.37	--	0.6	4.2	Pass
CA	150,000 miles	California LEV-III ULEV125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0207	--	1.10	--	0.0155	--	0.036	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0503	--	1.10	--	--	--	0.083	.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX-COMP	0.0686	--	1.10	--	0.0331	--	0.069	.100	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0296	--	--	--	0.0176	--	0.047	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0005	--	--	--	0.0001	--	0.001	.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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069109	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/19/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4226	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00428	--
CO (Carbon Monoxide)	0.46366	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.9692	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4316	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.7847	--
HCHO (Formaldehyde)	0.0003	--
MFR FE (Manufacturer Fuel Economy)	18.39	18.39
NOX (Nitrogen Oxide)	0.02692	--
N2O (Nitrous Oxide)	0.0002	--
HC-NM (Non-methane Hydrocarbon)	0.03016	--
NMOG (Non-methane organic gases)	0.03319	--
PM (Particulate Matter)	0.0012	--
HC-TOTAL (Total Hydrocarbon)	0.03431	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	480.38	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	479.39	--

Manufacturer Test Comments

992 GT3 Touring PDK; 10C (50F) for certification, E10 fuel; Porsche Test Number 2101889

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0170R92		
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-III ULEV125	CO	0.46	--	--	--	0.37	--	0.8	2.1	Pass
CA	4,000 miles	California LEV-III ULEV125	HCHO	0.0003	--	--	--	0.0004	--	0.001	0.016	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG	0.0332	--	1.10	--	0.0155	--	0.049	99.999	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0601	--	1.10	--	--	--	0.093	0.140	Pass
CA	4,000 miles	California LEV-III ULEV125	NOX	0.0269	--	--	--	0.0176	--	0.044	99.999	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069110	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	03/03/2021	Fuel	Gasoline
Fuel Batch ID	IF020	Fuel Calibration Number	11
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	APL Automobil-Prüftechnik Landau GmbH		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4291	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0088	--
CO (Carbon Monoxide)	0.9316	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.09	--
DT-EER (Drive Trace Energy Economy Rating)	0.34	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.54	--
MFR FE (Manufacturer Fuel Economy)	16.46	16.46
NOX (Nitrogen Oxide)	0.0407	--
HC-NM (Non-methane Hydrocarbon)	0.0958	--
HC-TOTAL (Total Hydrocarbon)	0.1042	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	530.93	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	529.15	--

Manufacturer Test Comments 992 GT3 Touring PDK; COLD CO, E10; certification; Porsche Test Number APL-302-20210303-05

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0170R92		
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 125	CO	0.93	--	--	--	0.37	--	1.3	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.10	--	--	--	0.01	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-III ULEV125	CO	0.93	--	--	--	0.37	--	1.3	10.0	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069106	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	02/18/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4181	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00787	--
CO (Carbon Monoxide)	0.23872	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7682	--
DT-EER (Drive Trace Energy Economy Rating)	0.4547	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.2725	--
MFR FE (Manufacturer Fuel Economy)	25.44	25.44
NOX (Nitrogen Oxide)	0.0031	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.01357	--
NMOG (Non-methane organic gases)	0.01398	--
PM (Particulate Matter)	0.00094	--
HC-TOTAL (Total Hydrocarbon)	0.02117	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	350.38	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	346.79	--

Manufacturer Test Comments

992 GT3 Touring PDK 21001883 HWY

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family					PPRXR0170R92		
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 125	CREE	999	--	--	--	0.63	--	1000	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0140	--	--	--	0.0155	--	0.030	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0171	--	--	--	--	--	0.050	.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0031	--	--	--	0.0176	--	0.021	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0140	--	--	--	0.0155	--	0.030	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0171	--	--	--	--	--	0.050	.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0031	--	--	--	0.0176	--	0.021	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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069107	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/18/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4202	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	551.8	--
FE BAG 1 (Bag 1 Fuel Economy)	16	16
CO2 BAG 2 (Bag 2 Carbon Dioxide)	395.4	--
FE BAG 2 (Bag 2 Fuel Economy)	22.32	22.32
METHANE (CH4 - Methane)	0.00424	--
CO (Carbon Monoxide)	0.19658	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.3055	--
DT-EER (Drive Trace Energy Economy Rating)	-4.0088	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.6764	--
MFR FE (Manufacturer Fuel Economy)	20.52	20.52
NOX (Nitrogen Oxide)	0.023	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.01768	--
NMOG (Non-methane organic gases)	0.01946	--
PM (Particulate Matter)	0	--
HC-TOTAL (Total Hydrocarbon)	0.02178	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	430.61	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	430.14	--

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0170R92		
Manufacturer Test Comments		992 GT3 Touring PDK 2101902 US06										
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 125	CO	0.20	--	--	--	0.37	--	0.6	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0195	--	1.10	--	0.0155	--	0.035	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0230	--	--	--	0.0176	--	0.041	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0000	--	--	--	0.0001	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.20	--	--	--	0.37	--	0.6	999.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0195	--	1.10	--	0.0155	--	0.035	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0230	--	--	--	0.0075	--	0.030	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0000	--	--	--	0.0001	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069108	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	03/24/2021	Fuel	Gasoline
Fuel Batch ID	OTTO	Fuel Calibration Number	21
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Audi Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7001	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0016	--
CO (Carbon Monoxide)	0.1805	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.0103	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6598	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.0462	--
MFR FE (Manufacturer Fuel Economy)	17.14	17.14
NOX (Nitrogen Oxide)	0.0198	--
HC-NM (Non-methane Hydrocarbon)	0.0039	--
NMOG (Non-methane organic gases)	0.0041	--
HC-TOTAL (Total Hydrocarbon)	0.0055	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	510.37	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	510.07	--

Manufacturer Test Comments 992 GT3 Touring PDK; SC03, E10; certification; Porsche Test Number ING-08-20210324-18

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0170R92		
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 125	CO	0.18	--	--	--	0.37	--	0.6	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0041	--	1.10	--	0.0155	--	0.020	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0198	--	--	--	0.0176	--	0.037	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.18	--	--	--	0.37	--	0.6	999.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0041	--	1.10	--	0.0155	--	0.020	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0198	--	--	--	0.0176	--	0.037	999.999	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
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Emission Data Vehicle Information

Vehicle ID / Configuration	ECFE-992GT3-22 / 2	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	NPRXV04.0S92	Original Evaporative/Refueling Family	NPRXR0170R92
Original Test Vehicle Model Year	2022		

Vehicle Model

Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	911 GT3 Touring
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Leak Family Details

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

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

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9733
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DSC	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)	3263	Equivalent Test Weight (pounds)	3625
GVWR (lbs)	3871	N/V Ratio	43
Axle Ratio	4.19		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	8
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	45.209	0.54776	0.017252	25.934	0.2062	0.019292	15.4

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Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069227	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	02/16/2021	Fuel	Gasoline
Fuel Batch ID	IG200	Fuel Calibration Number	13
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4127	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	512.66	--
FE BAG 1 (Bag 1 Fuel Economy)	17.15	17.15
CO2 BAG 2 (Bag 2 Carbon Dioxide)	487.03	--
FE BAG 2 (Bag 2 Fuel Economy)	18.12	18.12
CO2 BAG 3 (Bag 3 Carbon Dioxide)	428.18	--
FE BAG 3 (Bag 3 Fuel Economy)	20.59	20.59
METHANE (CH4 - Methane)	0.00394	--
CO (Carbon Monoxide)	0.30268	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4207	--
DT-EER (Drive Trace Energy Economy Rating)	0.1121	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5481	--
HCHO (Formaldehyde)	0.00018	--
MFR FE (Manufacturer Fuel Economy)	18.51	18.51
NOX (Nitrogen Oxide)	0.0285	--
N2O (Nitrous Oxide)	0.00026	--
HC-NM (Non-methane Hydrocarbon)	0.01888	--
NMOG (Non-methane organic gases)	0.01945	--
HC-TOTAL (Total Hydrocarbon)	0.02269	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	476.89	477

Certification Summary Information Report

Test Group	PPRXV04.0S92			Evaporative/Refueling Family				PPRXR0170R92																														
<table><tr><td colspan="2">Test Result Name</td><td colspan="3">Unrounded Test Result</td><td colspan="8">Verify Calculated CO2</td></tr><tr><td colspan="2">Carbon dioxide</td><td colspan="3">476.17</td><td colspan="8">--</td></tr></table>													Test Result Name		Unrounded Test Result			Verify Calculated CO2								Carbon dioxide		476.17			--							
Test Result Name		Unrounded Test Result			Verify Calculated CO2																																	
Carbon dioxide		476.17			--																																	
Manufacturer Test Comments		992 GT3 Touring PDK FE FTP; Fuel E0; Porsche Test Number 2101461																																				
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 125	METHANE	0.0039	--	--	--	0.0029	--	0.007	.030	Pass																										
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0003	--	--	--	0.0017	--	0.002	.010	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.30	--	--	--	0.37	--	0.7	2.1	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	477	--	--	--	0.63	--	478	--	--																										
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0194	--	1.10	--	0.0155	--	0.035	999.999	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0479	--	1.10	--	--	--	0.081	.125	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0285	--	--	--	0.0176	--	0.046	999.999	Pass																										
CA	120,000 miles	California LEV-III ULEV125	METHANE	0.0039	--	--	--	0.0029	--	0.007	.030	Pass																										
CA	120,000 miles	California LEV-III ULEV125	N2O	0.0003	--	--	--	0.0017	--	0.002	.010	Pass																										
CA	150,000 miles	California LEV-III ULEV125	CO	0.30	--	--	--	0.37	--	0.7	2.1	Pass																										
CA	150,000 miles	California LEV-III ULEV125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass																										
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0194	--	1.10	--	0.0155	--	0.035	999.999	Pass																										
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0479	--	1.10	--	--	--	0.081	.125	Pass																										
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0285	--	--	--	0.0176	--	0.046	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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Test #	NPRX10069236	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	02/16/2021	Fuel	Gasoline
Fuel Batch ID	IG200	Fuel Calibration Number	13
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4139	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.01472	--
CO (Carbon Monoxide)	0.33455	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4106	--
DT-EER (Drive Trace Energy Economy Rating)	0.0273	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.9756	--
MFR FE (Manufacturer Fuel Economy)	25.4	25.4
NOX (Nitrogen Oxide)	0.00278	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.02691	--
NMOG (Non-methane organic gases)	0.0277	--
HC-TOTAL (Total Hydrocarbon)	0.04112	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	350.75	348

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	346.79	--

Manufacturer Test Comments

992 GT3 Touring PDK; FE HWY; Fuel E0; Porsche Test Number 2101550

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0170R92		
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 125	CREE	348	--	--	--	0.63	--	349	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0277	--	--	--	0.0155	--	0.043	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0305	--	--	--	--	--	0.064	.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0028	--	--	--	0.0176	--	0.020	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0277	--	--	--	0.0155	--	0.043	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0305	--	--	--	--	--	0.064	.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0028	--	--	--	0.0176	--	0.020	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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Fuel Properties			
Fuel Batch ID	HC280	Fuel Calibration Number	2
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/04/2019
Fuel Batch Calibration Effective Date	03/04/2019	Fuel Batch Calibration Ineffective Date	03/01/2024
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value (BTU / lb)	17825
Fuel Blend Carbon Weight Fraction	0.829	Weight Fraction CO2	--
Fuel Batch ID	IF260	Fuel Calibration Number	53
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/18/2021
Fuel Batch Calibration Effective Date	02/18/2021	Fuel Batch Calibration Ineffective Date	02/28/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value (BTU / lb)	17642
Fuel Blend Carbon Weight Fraction	0.832	Weight Fraction CO2	--
Fuel Batch ID	IG200	Fuel Calibration Number	13
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/12/2021
Fuel Batch Calibration Effective Date	02/12/2021	Fuel Batch Calibration Ineffective Date	02/27/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.735
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	18511
Fuel Blend Carbon Weight Fraction	0.864	Weight Fraction CO2	--
Fuel Batch ID	IF020	Fuel Calibration Number	11
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	03/03/2021
Fuel Batch Calibration Effective Date	03/03/2021	Fuel Batch Calibration Ineffective Date	03/31/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value (BTU / lb)	17803
Fuel Blend Carbon Weight Fraction	0.829	Weight Fraction CO2	--
Fuel Batch ID	OTTO	Fuel Calibration Number	21
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/24/2021

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0170R92
Fuel Batch Calibration Effective Date	03/24/2021	Fuel Batch Calibration Ineffective Date	03/31/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value (BTU / lb)	17921
Fuel Blend Carbon Weight Fraction	0.831	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family		PPRXR0170R92		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 125		
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	--	--	--	--	--	--	0.63	999.9
150,000 miles	NMOG	--	--	--	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0331	.125
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 125		
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	--	--	--	--	--	--	0.0029	.030
120,000 miles	N2O	--	--	--	--	--	--	0.0017	.010
150,000 miles	CO	--	--	--	--	--	--	0.37	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.37	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.63	999.9
150,000 miles	HCHO	--	--	--	--	--	--	0.0004	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0331	.125
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.0331	.100
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	.003

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family			PPRXR0170R92	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.0029	.030
120,000 miles	N2O	--	--	--	--	--	--	0.0017	.010
150,000 miles	CO	--	--	--	--	--	--	0.37	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.37	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0004	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0331	.125
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.0331	.100
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006

Certification Summary Information Report

Test Group	PPRXV04.0S92				Evaporative/Refueling Family			PPRXR0170R92	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.37	2.1
4,000 miles	HCHO	--	--	--	--	--	--	0.0004	0.016
4,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	99.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	1	0.0331	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.0176	99.999

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.37	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999

Certification Summary Information Report

Test Group	PPRXV04.0S92				Evaporative/Refueling Family			PPRXR0170R92	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0075	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0331	.125
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999

Certification Summary Information Report

Test Group	PPRXV04.0S92		Evaporative/Refueling Family			PPRXR0170R92			
Cert Region	California + CAA Section 177 states		Cert/In-Use Code			Cert			
Vehicle Class	LDV/Passenger Car		Standard Level			California LEV-III ULEV125			
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	--	--	--	--	--	--	0.37	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family		PPRXR0170R92		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	0.0000		

Evaporative/Refueling Family		PPRXR0170R92		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	0.0000		

Evaporative/Refueling Family		PPRXR0170R92		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-III 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	0.0000		

Evaporative/Refueling Family		PPRXR0170R92		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	0.000		

Certification Summary Information Report

Test Group		PPRXV04.0S92		Evaporative/Refueling Family		PPRXR0170R92	
Evaporative/Refueling Family		PPRXR0170R92		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		PPRXR0170R92		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	0.0000		
Evaporative/Refueling Family		PPRXR0170R92		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 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		PPRXR0170R92		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III 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	0.0000		
Evaporative/Refueling Family		PPRXR0170R92		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 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		

Certification Summary Information Report

Test Group		PPRXV04.0S92		Evaporative/Refueling Family		PPRXR0170R92	
Evaporative/Refueling Family		PPRXR0170R92		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	0.000		

Certification Summary Information Report

Test Group		PPRXV04.0S92	Evaporative/Refueling Family		PPRXR0170R92
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		METHANOL	CH3OH - Methanol	
CO	Carbon Monoxide		N2O	Nitrous Oxide	
CO2	Carbon dioxide		SPITBACK	Spitback Hydrocarbon in grams	
CREE	Carbon-Related Exhaust Emissions		AMP-HRS	Integrated Amp-hours	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		START-SOC	System Start State of Charge Watt-hours	
NOX	Nitrogen Oxide		END-SOC	System End State of Charge Watt-hours	
PM	Particulate Matter		ACT-DISTANCE	Actual Distance Driven (miles)	
PM-COMP	SFTP Composite Particulate Matter		AS-VOLT	Average System Voltage	
HC-NM	Non-methane Hydrocarbon		CO2 BAG 1	Bag 1 Carbon Dioxide	
OMHCE	Organic material Hydrocarbon Equivalent		CO2 BAG 2	Bag 2 Carbon Dioxide	
OMNMHCE	Organic material non-methane HC equivalent		CO2 BAG 3	Bag 3 Carbon Dioxide	
NMOG	Non-methane organic gases		CO2 BAG 4	Bag 4 Carbon Dioxide	
HCHO	Formaldehyde		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
H3C2HO	Acetaldehyde		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		DT-ASCR	Drive Trace Absolute Speed Change Rating	
CO-COMP	SFTP Composite Carbon Monoxide		DT-EER	Drive Trace Energy Economy Rating	
ETHANOL	C2H5OH - Ethanol		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
FE BAG 1	Bag 1 Fuel Economy		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
FE BAG 2	Bag 2 Fuel Economy		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
FE BAG 3	Bag 3 Fuel Economy		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
FE BAG 4	Bag 4 Fuel Economy		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
MFR FE	Manufacturer Fuel Economy		LEAK-DIA	Effective Leak Diameter (inches)	
HC	Hydrocarbon for Running Loss and ORVR		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
METHANE	CH4 - Methane		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		L3ULEV340	California LEV-III ULEV340	
B2	Federal Tier 2 Bin 2		L3ULEV250	California LEV-III ULEV250	
B3	Federal Tier 2 Bin 3		L3ULEV200	California LEV-III ULEV200	
B4	Federal Tier 2 Bin 4		L3SULEV170	California LEV-III SULEV170	
B5	Federal Tier 2 Bin 5		L3SULEV150	California LEV-III SULEV150	

Certification Summary Information Report

Test Group		PPRXV04.0S92	Evaporative/Refueling Family		PPR XR0170R92
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
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		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

Certification Summary Information Report

Test Group		PPRXV04.0S92	Evaporative/Refueling Family		PPR XR0170R92
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 PPRXR0115R82

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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	06/29/2022 04:14:07 PM
Model Year	2023		

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	NPRXGPGNNS92	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	--	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	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	NPRXV04.0S92
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	OBD Approval: E-22-091; Deficiencies: Engine start-stop monitoring		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	06/07/2022 02:43:11 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)	115	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	EVAP system is new for MY 2023, and used for all 718 models.						
Leak Family Details							
Leak Family Indicator	No						
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	--						
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	881 - 718 GT4 RS	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual- Selectable (e.g. Automated Manual with paddles)	7	No
Porsche AG	1 - Porsche	881 - 718 GT4 RS	Federal	2-Wheel Drive, Rear	Automated Manual- Selectable (e.g. Automated Manual with paddles)	7	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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
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			
2TWC/DFI/2WR-HO2S/2HO2S/AIR (992 GT3, GT3 Touring, and 718 Cayman GT4 RS)			
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	Parallel	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	1	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	--
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	--		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group		PPRXV04.0S92		Evaporative/Refueling Family		PPRXR0115R82										
Engine Configuration Number 2																
Engine Displacement (liters)		4.0		Engine Rated Horsepower		493										
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		Parallel		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		1		Number of Air/Fuel Sensors		4										
Air/Fuel Sensor # 1 Type		Heated oxygen		Air/Fuel Sensor # 1 Description		--										
Air/Fuel Sensor # 2 Type		Heated oxygen		Air/Fuel Sensor # 2 Description		--										
Air/Fuel Sensor # 3 Type		Heated oxygen		Air/Fuel Sensor # 3 Description		--										
Air/Fuel Sensor # 4 Type		Heated oxygen		Air/Fuel Sensor # 4 Description		--										
Mfr Air/Fuel Sensor Comments		--														
Exhaust Gas Recirculation		No		Cooled Exhaust Gas Recirculation		--										
EGR Type		--		Exhaust Gas Recirculation Description if 'Other'		--										
Closed Loop Air Injection System		--														
Air Injection Type		--		Air Injection Type if 'Other'		--										
Mfr Engine Configuration Comments		--														
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		NPRX10069105		NPRX10069107		NPRX10069108		NPRX10069110		NPRX10069106		--	228.2	--	286.1	--
SFTP LEV-III Official Test Numbers																
Test Group Fuel		FTP		US06		SC03										
Gasoline		NPRX10069105		NPRX10069107		NPRX10069108										

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82					
Emission Data Vehicle Information								
Vehicle ID / Configuration	EC-982-PDK-22 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	NPRXV02.5B82	Original Evaporative/Refueling Family	NPRXR0115R82					
Original Test Vehicle Model Year	2022							
Vehicle Model								
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Boxster					
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	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	DDP	Rated Horsepower	300					
Displacement (liters)	2							
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	2-Wheel Drive, Rear					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	3097	Equivalent Test Weight (pounds)	3500					
GVWR (lbs)	3715	N/V Ratio	28.2					
Axle Ratio	3.62							
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		PPRXV04.0S92			Evaporative/Refueling Family		PPRXR0115R82	
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	40.106	0.62699	0.012402	6.072	-0.20224	0.012984	13.7	
Cold CO	40.106	0.62699	0.012402	6.072	-0.20224	0.012984	N/A	
US06	40.106	0.62699	0.012402	6.072	-0.20224	0.012984	N/A	
Emission Control Device Comments		TWC/MAP/DFI/2WR-HO2S/HO2S/TC/CAC						
Manufacturer Test Vehicle Comments		EVAP Emissions and Durability vehicle for this test group; Boxster with PDK transmission Internal vehicle name: SEP114						

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10070216	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	03/16/2021	Fuel	N/A
Fuel Batch ID	IF260	Fuel Calibration Number	53
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	151	Odometer Units	M
4WD Test Dyno	No	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)	383.36	--
FE BAG 1 (Bag 1 Fuel Economy)	22.99	22.99
CO2 BAG 2 (Bag 2 Carbon Dioxide)	340.75	--
FE BAG 2 (Bag 2 Fuel Economy)	25.92	25.92
CO2 BAG 3 (Bag 3 Carbon Dioxide)	300.45	--
FE BAG 3 (Bag 3 Fuel Economy)	29.39	29.39
METHANE (CH4 - Methane)	0.00316	--
CO (Carbon Monoxide)	0.07852	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.0772	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4514	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.774	--
HCHO (Formaldehyde)	0.00018	--
MFR FE (Manufacturer Fuel Economy)	26.08	26.08
NOX (Nitrogen Oxide)	0.02321	--
HC-NM (Non-methane Hydrocarbon)	0.01823	--
NMOG (Non-methane organic gases)	0.02006	--
HC-TOTAL (Total Hydrocarbon)	0.02128	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	338.96	999

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82						
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>338.5</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	338.5	--		
Test Result Name	Unrounded Test Result	Verify Calculated CO2							
Carbon dioxide	338.5	--							
Manufacturer Test Comments	FTP for 2-day evap test, E10 fuel; Porsche Test #2101678								

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10070218	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	03/05/2021	Fuel	N/A
Fuel Batch ID	IF260	Fuel Calibration Number	53
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	94	Odometer Units	M
4WD Test Dyno	No	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)	380.82	--
FE BAG 1 (Bag 1 Fuel Economy)	23.14	23.14
CO2 BAG 2 (Bag 2 Carbon Dioxide)	341.54	--
FE BAG 2 (Bag 2 Fuel Economy)	25.86	25.86
CO2 BAG 3 (Bag 3 Carbon Dioxide)	303.52	--
FE BAG 3 (Bag 3 Fuel Economy)	29.09	29.09
METHANE (CH4 - Methane)	0.00281	--
CO (Carbon Monoxide)	0.09649	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.4222	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3475	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.3331	--
HCHO (Formaldehyde)	0.00018	--
MFR FE (Manufacturer Fuel Economy)	26.02	26.02
NOX (Nitrogen Oxide)	0.02186	--
HC-NM (Non-methane Hydrocarbon)	0.01845	--
NMOG (Non-methane organic gases)	0.0203	--
HC-TOTAL (Total Hydrocarbon)	0.02116	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	339.67	999

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Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10070220	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/23/2021	Fuel	N/A
Fuel Batch ID	IF260	Fuel Calibration Number	53
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	57	Odometer Units	M
4WD Test Dyno	No	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)	392.52	--
FE BAG 1 (Bag 1 Fuel Economy)	22.43	22.43
CO2 BAG 2 (Bag 2 Carbon Dioxide)	351.83	--
FE BAG 2 (Bag 2 Fuel Economy)	25.1	25.1
CO2 BAG 3 (Bag 3 Carbon Dioxide)	312.76	--
FE BAG 3 (Bag 3 Fuel Economy)	28.24	28.24
METHANE (CH4 - Methane)	0.00287	--
CO (Carbon Monoxide)	0.13881	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.6488	--
DT-EER (Drive Trace Energy Economy Rating)	0.5151	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.4565	--
HCHO (Formaldehyde)	0.00018	--
MFR FE (Manufacturer Fuel Economy)	25.25	25.25
NOX (Nitrogen Oxide)	0.02038	--
HC-NM (Non-methane Hydrocarbon)	0.01841	--
NMOG (Non-methane organic gases)	0.02026	--
HC-TOTAL (Total Hydrocarbon)	0.02118	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	350.01	999

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82						
	<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>349.53</td> <td>--</td> </tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	349.53	--		
Test Result Name	Unrounded Test Result	Verify Calculated CO2							
Carbon dioxide	349.53	--							
Manufacturer Test Comments	FTP for ORVR evap test, E10 fuel; Porsche Test #2101868								
Test #	NPRX10070224	Test Procedure	23 - 2-day evap						
Exhaust Test # for this Evap Test	NPRX10070216	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	03/19/2021	Fuel	Gasoline						
Fuel Batch ID	IF260	Fuel Calibration Number	53						
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	163	Odometer Units	M						
4WD Test Dyno	No	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"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.2324</td> <td>--</td> </tr> </tbody> </table>			Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2324	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2324	--							
Manufacturer Test Comments	2-day evap, E10 fuel; Porsche test number 2101681								
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	0.2324	0.0126	0.245	0.300	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2324	0.0126	0.245	0.300	Pass	

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10070225	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	NPRX10070218	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	03/09/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
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	124	Odometer Units	M
4WD Test Dyno	No	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)	0.1677	--

Manufacturer Test Comments 3-day evap, E10 fuel; Porsche test number 2105006

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	0.1677	0.0164	0.184	0.300	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1677	0.0164	0.184	0.300	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82						
Test #	NPRX10070226	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	NPRX10070220	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	02/24/2021	Fuel	Gasoline						
Fuel Batch ID	IF260	Fuel Calibration Number	53						
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	64	Odometer Units	M						
4WD Test Dyno	No	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>0.01101</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)	0.01101	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.01101	--							
Manufacturer Test Comments									
ORVR for evap; E10 fuel; Porsche test number 2101871									
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	0.011	0.006	0.02	0.20	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.011	0.006	0.02	0.20	Pass	

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10070227	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	NPRX10070218	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	03/05/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
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	106	Odometer Units	M
4WD Test Dyno	No	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	No

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 2105008

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-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10070255	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	04/13/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
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	188.3	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0083	--

Manufacturer Test Comments

Representing all Boxster, Cayman, GTS, GT4, GT4RS, and Spyder models; BETP; E10 fuel; Porsche test number LM210400102

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	0.0083	0.0000	0.008	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0083	0.0000	0.008	0.020	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPR XR0115R82					
Emission Data Vehicle Information								
Vehicle ID / Configuration	ECFE-992GT3-22 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	NPRXV04.0S92	Original Evaporative/Refueling Family	NPRXR0170R92					
Original Test Vehicle Model Year	2022							
Vehicle Model								
Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	911 GT3 Touring					
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	0.9733					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	DSC	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)	3263	Equivalent Test Weight (pounds)	3625					
GVWR (lbs)	3871	N/V Ratio	43					
Axle Ratio	4.19							
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		PPRXV04.0S92			Evaporative/Refueling Family		PPRXR0115R82	
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	45.209	0.54776	0.016978	25.934	0.20622	0.019016	15.3	
Cold CO	45.209	0.54776	0.016978	25.934	0.20622	0.019016	N/A	
US06	45.209	0.54776	0.016978	25.934	0.20622	0.019016	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Porsche Internal Name: SE0006 Touring PDK - Emissions worst case						

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069105	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/18/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4170	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	510.03	--
FE BAG 1 (Bag 1 Fuel Economy)	17.26	17.26
CO2 BAG 2 (Bag 2 Carbon Dioxide)	487.85	--
FE BAG 2 (Bag 2 Fuel Economy)	18.1	18.1
CO2 BAG 3 (Bag 3 Carbon Dioxide)	423.18	--
FE BAG 3 (Bag 3 Fuel Economy)	20.85	20.85
METHANE (CH4 - Methane)	0.00326	--
CO (Carbon Monoxide)	0.26748	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.318	--
DT-EER (Drive Trace Energy Economy Rating)	-0.184	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.465	--
HCHO (Formaldehyde)	0.00018	--
MFR FE (Manufacturer Fuel Economy)	18.59	18.59
NOX (Nitrogen Oxide)	0.02959	--
N2O (Nitrous Oxide)	0.00007	--
HC-NM (Non-methane Hydrocarbon)	0.01884	--
NMOG (Non-methane organic gases)	0.02073	--
PM (Particulate Matter)	0.00046	--
HC-TOTAL (Total Hydrocarbon)	0.02199	--

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Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family					PPRXR0115R82		
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 125	METHANE	0.0033	--	--	--	0.0029	--	0.006	.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0001	--	--	--	0.0017	--	0.002	.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.27	--	--	--	0.37	--	0.6	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.59	--	--	--	0.37	--	0.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0.63	--	1000	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0207	--	1.10	--	0.0155	--	0.036	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0503	--	1.10	--	--	--	0.083	.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0714	--	1.10	--	0.0331	--	0.071	.100	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0296	--	--	--	0.0176	--	0.047	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0005	--	--	--	0.0001	--	0.001	.003	Pass
CA	120,000 miles	California LEV-III ULEV125	METHANE	0.0033	--	--	--	0.0029	--	0.006	.030	Pass
CA	120,000 miles	California LEV-III ULEV125	N2O	0.0001	--	--	--	0.0017	--	0.002	.010	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.27	--	--	--	0.37	--	0.6	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	CO-COMP	0.59	--	--	--	0.37	--	0.6	4.2	Pass
CA	150,000 miles	California LEV-III ULEV125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0207	--	1.10	--	0.0155	--	0.036	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0503	--	1.10	--	--	--	0.083	.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX-COMP	0.0686	--	1.10	--	0.0331	--	0.069	.100	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0296	--	--	--	0.0176	--	0.047	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0005	--	--	--	0.0001	--	0.001	.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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069109	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/19/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4226	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00428	--
CO (Carbon Monoxide)	0.46366	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.9692	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4316	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.7847	--
HCHO (Formaldehyde)	0.0003	--
MFR FE (Manufacturer Fuel Economy)	18.39	18.39
NOX (Nitrogen Oxide)	0.02692	--
N2O (Nitrous Oxide)	0.0002	--
HC-NM (Non-methane Hydrocarbon)	0.03016	--
NMOG (Non-methane organic gases)	0.03319	--
PM (Particulate Matter)	0.0012	--
HC-TOTAL (Total Hydrocarbon)	0.03431	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	480.38	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	479.39	--

Manufacturer Test Comments

992 GT3 Touring PDK; 10C (50F) for certification, E10 fuel; Porsche Test Number 2101889

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0115R82		
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-III ULEV125	CO	0.46	--	--	--	0.37	--	0.8	2.1	Pass
CA	4,000 miles	California LEV-III ULEV125	HCHO	0.0003	--	--	--	0.0004	--	0.001	0.016	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG	0.0332	--	1.10	--	0.0155	--	0.049	99.999	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0601	--	1.10	--	--	--	0.093	0.140	Pass
CA	4,000 miles	California LEV-III ULEV125	NOX	0.0269	--	--	--	0.0176	--	0.044	99.999	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069110	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	03/03/2021	Fuel	Gasoline
Fuel Batch ID	IF020	Fuel Calibration Number	11
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	APL Automobil-Prüftechnik Landau GmbH		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4291	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0088	--
CO (Carbon Monoxide)	0.9316	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.09	--
DT-EER (Drive Trace Energy Economy Rating)	0.34	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.54	--
MFR FE (Manufacturer Fuel Economy)	16.46	16.46
NOX (Nitrogen Oxide)	0.0407	--
HC-NM (Non-methane Hydrocarbon)	0.0958	--
HC-TOTAL (Total Hydrocarbon)	0.1042	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	530.93	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	529.15	--

Manufacturer Test Comments

992 GT3 Touring PDK; COLD CO, E10; certification; Porsche Test Number APL-302-20210303-05

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0115R82		
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 125	CO	0.93	--	--	--	0.37	--	1.3	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.10	--	--	--	0.01	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-III ULEV125	CO	0.93	--	--	--	0.37	--	1.3	10.0	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069106	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	02/18/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4181	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00787	--
CO (Carbon Monoxide)	0.23872	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7682	--
DT-EER (Drive Trace Energy Economy Rating)	0.4547	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.2725	--
MFR FE (Manufacturer Fuel Economy)	25.44	25.44
NOX (Nitrogen Oxide)	0.0031	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.01357	--
NMOG (Non-methane organic gases)	0.01398	--
PM (Particulate Matter)	0.00094	--
HC-TOTAL (Total Hydrocarbon)	0.02117	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	350.38	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	346.79	--

Manufacturer Test Comments

992 GT3 Touring PDK 21001883 HWY

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family					PPRXR0115R82		
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 125	CREE	999	--	--	--	0.63	--	1000	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0140	--	--	--	0.0155	--	0.030	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0171	--	--	--	--	--	0.050	.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0031	--	--	--	0.0176	--	0.021	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0140	--	--	--	0.0155	--	0.030	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0171	--	--	--	--	--	0.050	.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0031	--	--	--	0.0176	--	0.021	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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069107	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/18/2021	Fuel	Gasoline
Fuel Batch ID	IF260	Fuel Calibration Number	53
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4202	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	551.8	--
FE BAG 1 (Bag 1 Fuel Economy)	16	16
CO2 BAG 2 (Bag 2 Carbon Dioxide)	395.4	--
FE BAG 2 (Bag 2 Fuel Economy)	22.32	22.32
METHANE (CH4 - Methane)	0.00424	--
CO (Carbon Monoxide)	0.19658	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.3055	--
DT-EER (Drive Trace Energy Economy Rating)	-4.0088	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.6764	--
MFR FE (Manufacturer Fuel Economy)	20.52	20.52
NOX (Nitrogen Oxide)	0.023	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.01768	--
NMOG (Non-methane organic gases)	0.01946	--
PM (Particulate Matter)	0	--
HC-TOTAL (Total Hydrocarbon)	0.02178	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	430.61	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	430.14	--

Certification Summary Information Report

Test Group		PPRXV04.0S92				Evaporative/Refueling Family				PPRXR0115R82		
Manufacturer Test Comments		992 GT3 Touring PDK 2101902 US06										
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 125	CO	0.20	--	--	--	0.37	--	0.6	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0195	--	1.10	--	0.0155	--	0.035	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0230	--	--	--	0.0176	--	0.041	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0000	--	--	--	0.0001	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.20	--	--	--	0.37	--	0.6	999.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0195	--	1.10	--	0.0155	--	0.035	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0230	--	--	--	0.0075	--	0.030	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0000	--	--	--	0.0001	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069108	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	03/24/2021	Fuel	Gasoline
Fuel Batch ID	OTTO	Fuel Calibration Number	21
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Audi Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7001	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0016	--
CO (Carbon Monoxide)	0.1805	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.0103	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6598	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.0462	--
MFR FE (Manufacturer Fuel Economy)	17.14	17.14
NOX (Nitrogen Oxide)	0.0198	--
HC-NM (Non-methane Hydrocarbon)	0.0039	--
NMOG (Non-methane organic gases)	0.0041	--
HC-TOTAL (Total Hydrocarbon)	0.0055	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	510.37	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	510.07	--

Manufacturer Test Comments

992 GT3 Touring PDK; SC03, E10; certification; Porsche Test Number ING-08-20210324-18

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family					PPRXR0115R82		
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 125	CO	0.18	--	--	--	0.37	--	0.6	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0041	--	1.10	--	0.0155	--	0.020	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0198	--	--	--	0.0176	--	0.037	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.18	--	--	--	0.37	--	0.6	999.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0041	--	1.10	--	0.0155	--	0.020	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0198	--	--	--	0.0176	--	0.037	999.999	Pass

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Certification Summary Information Report

Test Group	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069227	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	02/16/2021	Fuel	Gasoline
Fuel Batch ID	IG200	Fuel Calibration Number	13
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4127	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	512.66	--
FE BAG 1 (Bag 1 Fuel Economy)	17.15	17.15
CO2 BAG 2 (Bag 2 Carbon Dioxide)	487.03	--
FE BAG 2 (Bag 2 Fuel Economy)	18.12	18.12
CO2 BAG 3 (Bag 3 Carbon Dioxide)	428.18	--
FE BAG 3 (Bag 3 Fuel Economy)	20.59	20.59
METHANE (CH4 - Methane)	0.00394	--
CO (Carbon Monoxide)	0.30268	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4207	--
DT-EER (Drive Trace Energy Economy Rating)	0.1121	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5481	--
HCHO (Formaldehyde)	0.00018	--
MFR FE (Manufacturer Fuel Economy)	18.51	18.51
NOX (Nitrogen Oxide)	0.0285	--
N2O (Nitrous Oxide)	0.00026	--
HC-NM (Non-methane Hydrocarbon)	0.01888	--
NMOG (Non-methane organic gases)	0.01945	--
HC-TOTAL (Total Hydrocarbon)	0.02269	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	476.89	477

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family				PPRXR0115R82			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		476.17			--					
Manufacturer Test Comments		992 GT3 Touring PDK FE FTP; Fuel E0; Porsche Test Number 2101461										
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 125	METHANE	0.0039	--	--	--	0.0029	--	0.007	.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0003	--	--	--	0.0017	--	0.002	.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.30	--	--	--	0.37	--	0.7	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	477	--	--	--	0.63	--	478	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0194	--	1.10	--	0.0155	--	0.035	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0479	--	1.10	--	--	--	0.081	.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0285	--	--	--	0.0176	--	0.046	999.999	Pass
CA	120,000 miles	California LEV-III ULEV125	METHANE	0.0039	--	--	--	0.0029	--	0.007	.030	Pass
CA	120,000 miles	California LEV-III ULEV125	N2O	0.0003	--	--	--	0.0017	--	0.002	.010	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.30	--	--	--	0.37	--	0.7	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	HCHO	0.0002	--	--	--	0.0004	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0194	--	1.10	--	0.0155	--	0.035	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0479	--	1.10	--	--	--	0.081	.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0285	--	--	--	0.0176	--	0.046	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	PPRXV04.0S92	Evaporative/Refueling Family	PPRXR0115R82
Test #	NPRX10069236	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	02/16/2021	Fuel	Gasoline
Fuel Batch ID	IG200	Fuel Calibration Number	13
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4139	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.01472	--
CO (Carbon Monoxide)	0.33455	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4106	--
DT-EER (Drive Trace Energy Economy Rating)	0.0273	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.9756	--
MFR FE (Manufacturer Fuel Economy)	25.4	25.4
NOX (Nitrogen Oxide)	0.00278	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.02691	--
NMOG (Non-methane organic gases)	0.0277	--
HC-TOTAL (Total Hydrocarbon)	0.04112	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	350.75	348

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	346.79	--

Manufacturer Test Comments

992 GT3 Touring PDK; FE HWY; Fuel E0; Porsche Test Number 2101550

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family					PPRXR0115R82		
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 125	CREE	348	--	--	--	0.63	--	349	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0277	--	--	--	0.0155	--	0.043	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0305	--	--	--	--	--	0.064	.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0028	--	--	--	0.0176	--	0.020	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0277	--	--	--	0.0155	--	0.043	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0305	--	--	--	--	--	0.064	.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0028	--	--	--	0.0176	--	0.020	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	PPRXV04.0S92	Evaporative/Refueling Family	PPR XR0115R82
Fuel Properties			
Fuel Batch ID	IF260	Fuel Calibration Number	53
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/18/2021
Fuel Batch Calibration Effective Date	02/18/2021	Fuel Batch Calibration Ineffective Date	02/28/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value (BTU / lb)	17642
Fuel Blend Carbon Weight Fraction	0.832	Weight Fraction CO2	--
Fuel Batch ID	IG200	Fuel Calibration Number	13
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/12/2021
Fuel Batch Calibration Effective Date	02/12/2021	Fuel Batch Calibration Ineffective Date	02/27/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.735
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	18511
Fuel Blend Carbon Weight Fraction	0.864	Weight Fraction CO2	--
Fuel Batch ID	IF020	Fuel Calibration Number	11
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	03/03/2021
Fuel Batch Calibration Effective Date	03/03/2021	Fuel Batch Calibration Ineffective Date	03/31/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value (BTU / lb)	17803
Fuel Blend Carbon Weight Fraction	0.829	Weight Fraction CO2	--
Fuel Batch ID	OTTO	Fuel Calibration Number	21
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/24/2021
Fuel Batch Calibration Effective Date	03/24/2021	Fuel Batch Calibration Ineffective Date	03/31/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value (BTU / lb)	17921
Fuel Blend Carbon Weight Fraction	0.831	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		PPRXV04.OS92			Evaporative/Refueling Family			PPRXR0115R82	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.63	999.9
150,000 miles	NMOG	--	--	--	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0331	.125
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.0029	.030
120,000 miles	N2O	--	--	--	--	--	--	0.0017	.010
150,000 miles	CO	--	--	--	--	--	--	0.37	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.37	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.63	999.9
150,000 miles	HCHO	--	--	--	--	--	--	0.0004	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0331	.125
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.0331	.100
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	.003

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family			PPRXR0115R82	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.0029	.030
120,000 miles	N2O	--	--	--	--	--	--	0.0017	.010
150,000 miles	CO	--	--	--	--	--	--	0.37	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.37	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0004	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	--	0.0331	.125
150,000 miles	NMOG+NOX-COMP	--	--	1.10	--	--	--	0.0331	.100
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006

Certification Summary Information Report

Test Group	PPRXV04.0S92				Evaporative/Refueling Family			PPRXR0115R82	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.37	2.1
4,000 miles	HCHO	--	--	--	--	--	--	0.0004	0.016
4,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	99.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	1	0.0331	0.140
4,000 miles	NOX	--	--	--	--	--	--	0.0176	99.999

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.37	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999

Certification Summary Information Report

Test Group	PPRXV04.0S92				Evaporative/Refueling Family			PPRXR0115R82	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0075	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.37	999.9
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0155	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV125	
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	--	--	--	--	--	--	0.0155	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0331	.125
150,000 miles	NOX	--	--	--	--	--	--	0.0176	999.999

Certification Summary Information Report

Test Group		PPRXV04.0S92			Evaporative/Refueling Family			PPRXR0115R82			
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert			
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125			
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		--	--	--	--	--	--	0.37	10.0

Certification Summary Information Report

Test Group		PPRXV04.0S92		Evaporative/Refueling Family		PPRXR0115R82	
Evaporative/Refueling Family		PPRXR0115R82		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	0.0164		
Evaporative/Refueling Family		PPRXR0115R82		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III 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	0.0000		
Evaporative/Refueling Family		PPRXR0115R82		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 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0164		
Evaporative/Refueling Family		PPRXR0115R82		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	0.000		
Evaporative/Refueling Family		PPRXR0115R82		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	0.006		

Certification Summary Information Report

Test Group		PPRXV04.0S92		Evaporative/Refueling Family		PPRXR0115R82	
Evaporative/Refueling Family		PPRXR0115R82		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-III 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	0.0126		

Certification Summary Information Report

Test Group		PPRXV04.0S92	Evaporative/Refueling Family		PPRXR0115R82
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		METHANOL	CH3OH - Methanol	
CO	Carbon Monoxide		N2O	Nitrous Oxide	
CO2	Carbon dioxide		SPITBACK	Spitback Hydrocarbon in grams	
CREE	Carbon-Related Exhaust Emissions		AMP-HRS	Integrated Amp-hours	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		START-SOC	System Start State of Charge Watt-hours	
NOX	Nitrogen Oxide		END-SOC	System End State of Charge Watt-hours	
PM	Particulate Matter		ACT-DISTANCE	Actual Distance Driven (miles)	
PM-COMP	SFTP Composite Particulate Matter		AS-VOLT	Average System Voltage	
HC-NM	Non-methane Hydrocarbon		CO2 BAG 1	Bag 1 Carbon Dioxide	
OMHCE	Organic material Hydrocarbon Equivalent		CO2 BAG 2	Bag 2 Carbon Dioxide	
OMNMHCE	Organic material non-methane HC equivalent		CO2 BAG 3	Bag 3 Carbon Dioxide	
NMOG	Non-methane organic gases		CO2 BAG 4	Bag 4 Carbon Dioxide	
HCHO	Formaldehyde		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
H3C2HO	Acetaldehyde		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		DT-ASCR	Drive Trace Absolute Speed Change Rating	
CO-COMP	SFTP Composite Carbon Monoxide		DT-EER	Drive Trace Energy Economy Rating	
ETHANOL	C2H5OH - Ethanol		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
FE BAG 1	Bag 1 Fuel Economy		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
FE BAG 2	Bag 2 Fuel Economy		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
FE BAG 3	Bag 3 Fuel Economy		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
FE BAG 4	Bag 4 Fuel Economy		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
MFR FE	Manufacturer Fuel Economy		LEAK-DIA	Effective Leak Diameter (inches)	
HC	Hydrocarbon for Running Loss and ORVR		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
METHANE	CH4 - Methane		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		L3ULEV340	California LEV-III ULEV340	
B2	Federal Tier 2 Bin 2		L3ULEV250	California LEV-III ULEV250	
B3	Federal Tier 2 Bin 3		L3ULEV200	California LEV-III ULEV200	
B4	Federal Tier 2 Bin 4		L3SULEV170	California LEV-III SULEV170	
B5	Federal Tier 2 Bin 5		L3SULEV150	California LEV-III SULEV150	

Certification Summary Information Report

Test Group		PPRXV04.0S92	Evaporative/Refueling Family		PPR XR0115R82
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
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		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

Certification Summary Information Report

Test Group		PPRXV04.0S92	Evaporative/Refueling Family		PPRXR0115R82
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 86.1810-01(1)(i)and(ii), 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 86.1829-01(b)(1)(iii)(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 86.1829-01(b)(iii)(E), Porsche attests that vehicles in this test group comply with applicable formaldehyde standards.
Particulate Matter	In accordance with 40 CFR 86.1829-01(b)(1)(iii)(B), Porsche hereby certifies that the vehicles of this test group comply with the applicable standards for Particulate Matter.
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 86.1810-09(f)(2) and 40 CFR 86.1829-01(b)(1)(ii)(B), 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 Sub-configurations	Worst-case vehicle subconfiguration has been verified by development testing. All vehicle configurations meet the 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.

Section 8~Manufacturer Statements

8.02>> Manufacturer Attestations

SFTP Air/Fuel Ratio Requirements	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	In accordance with 40 CFR 86.1810-01(i)(14), Porsche hereby attests that no lean-on-cruise calibration strategies are incorporated into the design of the vehicles in this test group.
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	As required by 40 CFR 86.1810-01(i)(13), 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.
Tier 3 / LEV-III Fleet Averages and Phase-Ins	As part of the Volkswagen Group of America, Porsche is not subject to these requirements as an independent entity. Tier 3 and LEV-III compliance is managed at the Group level by VWGoA.
PHEV Emissions Compliance	Porsche attests that its Plug-in Hybrid Electric Vehicles as described in all Applications for Certification remain in compliance with all emissions standards during charge depleting/sustaining transition modes.

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_PPRXV04.0S92_OBD Application

Section 9~OBD Description

9.02>> ARB OBD Approval

E-22-091: The OBD approval letter is attached.

April 15, 2022

Reference No. E-22-091

Mr. Nathan Knight, Regulatory Affairs Engineer
Porsche Cars of North America, Incorporated
One Porsche Drive
Atlanta, Georgia 30354

Confidential

Subject: Approval of Porsche's On-Board Diagnostics II (OBD II) System for the 2023
Model Year (MY) Test Groups PPRXV04.0S92 and PPRXV04.0R92

Dear Mr. Knight,

The California Air Resources Board's (CARB) On-Board Diagnostics Branch has received the OBD II system description submitted by Porsche for the 2023 MY test groups listed above. Representations made in the application indicate that the system is compliant with the OBD II regulation¹ with the exception of the engine start-stop monitor for the 911 GT3 model in test group PPRXV04.0S92. Therefore, CARB approves the 2023 MY system design for the test groups listed above with 1 deficiency for the 911 GT3 model in test group PPRXV04.0S92 and no deficiencies for the rest of the models in test group PPRXV04.0S92 and for test group PPRXV04.0R92. Details of the deficiency were provided in a prior approval letter (Reference No. E-20-156).

Should you have questions or comments regarding this letter, please contact Mahfuz Rahman, Air Resources Engineer, at (951) 542-3355, or via email at mahfuz.rahman@arb.ca.gov.

Sincerely,



Michael Regenfuss, Chief
On-Board Diagnostics Branch
Emissions Certification and Compliance Division

cc: Mahfuz Rahman
Air Resources Engineer
Emissions Certification and Compliance Division

¹ Unless otherwise noted, all regulation references are to title 13, California Code of Regulations, section 1968.2.

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		580	583	580	583
Model Name		911 GT3	911 GT3 Touring	911 GT3	911 GT3 Touring
Vehicle Classification		PC	PC	PC	PC
Sales Area		50 State	50 State	50 State	50 State
Transmission		MT6	MT6	A7	A7
Engine Displ. (L)		4.0	4.0	4.0	4.0
Engine Code		DSC	DSC	DSC	DSC
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		Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated
Idle Start/Stop		Default On	Default On	Default On	Default On
Drive Type		RWD	RWD	RWD	RWD
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)		16.9	16.9	23.8	23.8
Optional Tank (Gal)		24.0	24.0	24.0	24.0
Canister Working Capacity (g)		130	130	170	170
Canister Bed Vol (L)		2.4	2.4	2.9	2.9
Fuel Temperature Profile		See Section 6	See Section 6	See Section 6	See Section 6
ETW (Lb-f)		3625	3625	3625	3625
Curb Weight		3225	3225	3263	3263
Gross Vehicle Weight		3891	3834	3929	3871
Test Horsepower		502	502	502	502
Shift Schedules					
Cooling Fan Configuration		See Section 6	See Section 6	See Section 6	See Section 6
Axle Ratio		3.76	3.76	4.19	4.19
N/V Ratio		40.3	40.3	43.0	43.0
Tire Size	Front	255/35 ZR20	255/35 ZR20	255/35 ZR20	255/35 ZR20
	Rear	315/30 ZR21	315/30 ZR21	315/30 ZR21	315/30 ZR21
RLHP		15.1	15.1	15.4	15.3
Single Roll Coefficients (target)	A (lbf)	43.141	43.141	45.209	45.209
	B [lbf/mph]	0.58680	0.58680	0.54780	0.54780
	C [lbf/mph ²]	0.016300	0.016400	0.017150	0.01698

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

Note: blank cells or tables are intentionally blank.

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

12.01.02>> Vehicle Description Continued

Carline	881			
Model Name	718 GT4 RS			
Vehicle Classification	PC			
Sales Area	50 State			
Transmission	A7			
Engine Displ. (L)	4.0			
Engine Code	DUD			
Catalysts	See Section 2			
EGR Type	Not Applicable			
Air Pump Type	None			
Intake Air Aspiration Method	Naturally Aspirated			
Idle Start/Stop	Default On			
Drive Type	RWD			
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)	16.9			
Optional Tank (Gal)*				
Canister Working Capacity (g)	115			
Canister Bed Volume	2			
Fuel Temperature Profile	See Section 6			
ETW [Lbf]	3625			
Curb Weight	3227			
Gross Vehicle Weight	3904			
Test Horsepower	493			
Shift Schedules	See Section 6			
Cooling Fan Configuration				
Axle Ratio	3.25			
N/V Ratio	45.1			
Tire Size ^s	Front	245/35 ZR20 (95Y)		
	Rear	295/30 R20 (101Y)		
RLHP	15.3			
Single Roll Coefficients (target)	A [lbf]	37.925		
	B [lbf/mph]	0.44465		
	C [lbf/mph ²]	0.01862		

* Optional tank has 170 g carbon canister

Note: blank cells or tables are intentionally blank.

Section 13~Projected Sales

13.01>> Sales / Phase-ins

Durability Group	Test Group [Exhaust Standards]	Evap / Refueling Family [Evaporative Standards]	Models	Federal Sales	California Sales
PPRXGPGNNS92	PPRXV04.0S92	PPRXR0115R82	718 GT4 RS	1045	261
	[BIN 125 / ULEV 125]	[Tier 3 / LEV III]			
		PPRXR0170R92	911 GT3 Touring (PDK)	30	8
			911 GT3 (PDK)	99	25
		[Tier 3 / LEV III]	911 GT3 Touring (Manual)	79	20
			911 GT3 (Manual)	247	62
Total:				1500	376

Note: blank cells or tables are intentionally blank.

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:



June 9, 2022

Michael Scott – Porsche Cars North America, Inc.

Section 15~Other Information

15.01>> Fee Filing Form

Appears on the following page.

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 06/15/2022

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

PRX

Manufacturer Name *

Porsche Cars North America

Contact Name *

Douglas B McGregor

Contact Email Address *

douglas.mcgregor@porsche.us

Contact Phone *

4703788480

Calendar Year complete application submitted
to EPA *

2022

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2022, through December 31, 2022. 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

*

PPRXV04.0S92

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? *

Payment Information

Amount Owed

Payment Type *

Offline ACH



Comments

Models: 911 GT3, 911 GT3 Touring, 718 GT4 RS

CC: SVCP

Order Num: 100541

GL Num: 672900

pay.gov tracking num: 270GEIPJ

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 12/31/2022

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

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

Section 16~Confidential Information

None.