

**Certification Summary Information Report**

|                                   |                  |                                     |                        |
|-----------------------------------|------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Porsche AG       | <b>Manufacturer Code</b>            | PRX                    |
| <b>Test Group</b>                 | VPRXJ04.0HV8     | <b>Evaporative/Refueling Family</b> | VPRXR0180RPH           |
| <b>Certificate Number</b>         | VPRXJ04.0HV8-012 | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | 07/17/2026       | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | 07/17/2026       | <b>Conditional Certificate</b>      | No                     |
| <b>CSI Revision #</b>             | --               | <b>CSI Submission/Revision Date</b> | 07/06/2026 09:55:10 AM |
| <b>Model Year</b>                 | 2027             |                                     |                        |

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|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VPRXJ04.0HV8 | <b>Evaporative/Refueling Family</b> | VPRXR0180RPH |
|-------------------|--------------|-------------------------------------|--------------|

  
**Test Group Information**

|                          |                       |                                        |    |
|--------------------------|-----------------------|----------------------------------------|----|
| <b>CSI Type</b>          | Update for Correction | <b>Running Change Reference Number</b> | -- |
| <b>GHG Exempt Status</b> | Not Exempt            |                                        |    |

  
**Drive Sources and Fuel(s)**

**Drive Source #1:** Electric Motor

|             |                                   |                                     |
|-------------|-----------------------------------|-------------------------------------|
| <b>Fuel</b> | <b>Basic Fuel Metering System</b> | <b>Lean Burn Strategy Indicator</b> |
| Electricity | --                                | --                                  |

  

**Drive Source #2:** Combustion Engine

|             |                                      |                                     |
|-------------|--------------------------------------|-------------------------------------|
| <b>Fuel</b> | <b>Basic Fuel Metering System</b>    | <b>Lean Burn Strategy Indicator</b> |
| Gasoline    | Spark Ignition Direct fuel injection | No                                  |

  

|                                                     |                                                                                                                                                                     |                                                            |              |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | Yes                                                                                                                                                                 |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                                                                                                                                                                  | <b>Rechargeable Energy Storage System Indicator</b>        | Yes          |
| <b>Multiple Fuel Combustion</b>                     | Fuels Combusted Together                                                                                                                                            | <b>Off-board Charge Capable Indicator</b>                  | Yes          |
| <b>Fuel Cell Indicator</b>                          | No                                                                                                                                                                  | <b>EPA Vehicle Class</b>                                   | LDT4, LDV    |
| <b>Federal Clean Fuel Vehicle</b>                   | No                                                                                                                                                                  | <b>Federal Clean Fuel Vehicle Standard</b>                 | --           |
| <b>Federal Clean Fuel Vehicle ILEV</b>              | No                                                                                                                                                                  | <b>California Partial Zero Emissions Vehicle Indicator</b> | No           |
| <b>Durability Group Name</b>                        | VPRXHHGNNCH8                                                                                                                                                        | <b>Durability Group Equivalency Factor</b>                 | 1            |
| <b>Reduced Fee Test Group</b>                       | No                                                                                                                                                                  | <b>Certification Region Code(s)</b>                        | FA, CA       |
| <b>Complies with HD GHG 2b/3 regulations?</b>       | No                                                                                                                                                                  |                                                            |              |
| <b>Introduction into Commerce Date</b>              | 07/13/2026                                                                                                                                                          | <b>CAP2000 Conditional Certificate?</b>                    | No           |
| <b>Independent Commercial Importer?</b>             | No                                                                                                                                                                  | <b>Alternative Fuel Converter Certificate?</b>             | No           |
| <b>SFTP Federal Composite Compliance Identifier</b> | Tier 3                                                                                                                                                              | <b>SFTP Tier 2 Composite CO Option</b>                     | No           |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | No                                                                                                                                                                  |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                                                                                                                                                                | <b>OBD Demonstration Vehicle Test Group</b>                | VPRXT04.0CH8 |
| <b>Test Group OBD Compliance Level</b>              | Partial - with deficiencies                                                                                                                                         | <b>Number of Test Group OBD Deficiencies</b>               | 1            |
| <b>OBD Deficiencies Comments</b>                    | APPROVAL E-26-101 - SAE J1979-2 Implementation (VPRXJ03.0HV6, VPRXJ04.0HV8) Deficiency - Panamera Turbo e-Hybrid, Panamera Turbo S e-hybrid, Cayenne Turbo e-hybrid |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | --                                                                                                                                                                  |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                                                                                                                                                                  |                                                            |              |

## Certification Summary Information Report

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

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

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|                                           |                                    |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
|-------------------------------------------|------------------------------------|--------------------------------------------------|--------------|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                         | VPRXJ04.0HV8                       | <b>Evaporative/Refueling Family</b>              | VPRXR0180RPH |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 2</b>      |                                    |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Engine Displacement (liters)              | 4.0                                | Engine Rated Horsepower                          | 512          |              |                |                |                              |                                  |                                 |                                     |                              |
| Number of Inlet Valves Per Cylinder       | 2                                  | Number of Exhaust Valves Per Cylinder            | 2            |              |                |                |                              |                                  |                                 |                                     |                              |
| Air Aspiration Method                     | Turbocharged                       | Number of Air Aspiration Devices                 | 2            |              |                |                |                              |                                  |                                 |                                     |                              |
| Air Aspiration Device Configuration       | Parallel                           | Charge Air Cooler Type                           | Air          |              |                |                |                              |                                  |                                 |                                     |                              |
| Air Aspiration Drive Method(s)            | Mechanical                         |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Cylinder Deactivation                     | No                                 |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Cylinder Deactivation Description         | --                                 |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Variable Valve Timing                     | Yes                                |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Variable Valve Timing System Description  | VarioCam                           |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Variable Valve Lift?                      | Yes                                |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Variable Valve Lift System Description    | VarioCam Plus                      |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Number of Knock Sensors                   | 4                                  | Number of Air/Fuel Sensors                       | 4            |              |                |                |                              |                                  |                                 |                                     |                              |
| Air/Fuel Sensor # 1 Type                  | Heated oxygen                      | Air/Fuel Sensor # 1 Description                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| Air/Fuel Sensor # 2 Type                  | Heated oxygen                      | Air/Fuel Sensor # 2 Description                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| Air/Fuel Sensor # 3 Type                  | Heated oxygen                      | Air/Fuel Sensor # 3 Description                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| Air/Fuel Sensor # 4 Type                  | Heated oxygen                      | Air/Fuel Sensor # 4 Description                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| Mfr Air/Fuel Sensor Comments              | --                                 |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Exhaust Gas Recirculation                 | No                                 | Cooled Exhaust Gas Recirculation                 | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| EGR Type                                  | --                                 | Exhaust Gas Recirculation Description if 'Other' | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| Closed Loop Air Injection System          | --                                 |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| Air Injection Type                        | --                                 | Air Injection Type if 'Other'                    | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| Mfr Engine Configuration Comments         | Engine for Panamera Turbo e-Hybrid |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Official Test Numbers</b>              |                                    |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group</b>                         | <b>Fuel</b>                        | <b>FTP</b>                                       | <b>US06</b>  | <b>SC03</b>  | <b>Cold CO</b> | <b>Highway</b> | <b>EPA City Litmus Value</b> | <b>EPA City Litmus Threshold</b> | <b>EPA Highway Litmus Value</b> | <b>EPA Highway Litmus Threshold</b> | <b>CREE Weighting Factor</b> |
| Gasoline                                  | SPRX10087399                       | SPRX10087401                                     | SPRX10087426 | SPRX10087431 | SPRX10087400   | 19             | 228.2                        | 23.8                             | 286.1                           | --                                  |                              |
| Electricity                               | SPRX10087399                       | SPRX10087401                                     | SPRX10087426 | SPRX10087431 | SPRX10087400   | --             | --                           | --                               | --                              | --                                  |                              |
| <b>SFTP LEV-III Official Test Numbers</b> |                                    |                                                  |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group Fuel</b>                    | <b>FTP</b>                         | <b>US06</b>                                      | <b>SC03</b>  |              |                |                |                              |                                  |                                 |                                     |                              |
| Gasoline                                  | SPRX10087399                       | SPRX10087401                                     | SPRX10087426 |              |                |                |                              |                                  |                                 |                                     |                              |

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

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|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VPRXJ04.0HV8 | <b>Evaporative/Refueling Family</b> | VPRXR0180RPH |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

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

  
**Vehicle Model**

|                                      |         |                                       |                              |
|--------------------------------------|---------|---------------------------------------|------------------------------|
| <b>Represented Test Vehicle Make</b> | Porsche | <b>Represented Test Vehicle Model</b> | Cayenne Turbo E-Hybrid Coupe |
|--------------------------------------|---------|---------------------------------------|------------------------------|

  
**Leak Family Details**

|                               |    |                         |    |
|-------------------------------|----|-------------------------|----|
| <b>Leak Family Identifier</b> | -- | <b>Leak Family Name</b> | -- |
|-------------------------------|----|-------------------------|----|

  
**Drive Sources and Fuel System Details**

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

  

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

Certification Summary Information Report

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

## Certification Summary Information Report

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

## Test Results

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

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## Certification Summary Information Report

| Test Group           |               | VPRXJ04.0HV8             |               |                | Evaporative/Refueling Family |                  |                          |         |         | VPRXR0180RPH        |          |           |
|----------------------|---------------|--------------------------|---------------|----------------|------------------------------|------------------|--------------------------|---------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level           | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF  | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 70    | METHANE       | 0.0033         | --                           | --               | --                       | 0.0028  | --      | 0.006               | 0.030    | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 70    | N2O           | 0.0003         | --                           | --               | --                       | 0.0012  | --      | 0.002               | 0.010    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | CO            | 0.36           | --                           | --               | --                       | 0.34    | --      | 0.7                 | 2.1      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | CO-COMP       | 0.83           | --                           | --               | --                       | 0.34    | --      | 0.8                 | 4.2      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | CREE          | 999            | --                           | --               | --                       | 0       | --      | 999                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG          | 0.0143         | --                           | 1.1              | --                       | 0.01663 | --      | 0.031               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG+NOX      | 0.0159         | --                           | 1.1              | --                       | --      | --      | 0.033               | 0.070    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG+NOX-COMP | 0.0263         | --                           | 1.1              | --                       | 0.01722 | --      | 0.026               | 0.080    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NOX           | 0.0016         | --                           | --               | --                       | 0.0006  | --      | 0.002               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | PM            | 0.001          | --                           | --               | --                       | 0.0002  | --      | 0.001               | 0.003    | Pass      |
| CA                   | 120,000 miles | California LEV-IV ULEV70 | METHANE       | 0.0033         | --                           | --               | --                       | 0.0028  | --      | 0.006               | 0.030    | Pass      |
| CA                   | 120,000 miles | California LEV-IV ULEV70 | N2O           | 0.0003         | --                           | --               | --                       | 0.0012  | --      | 0.002               | 0.010    | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.36           | --                           | --               | --                       | 0.34    | --      | 0.7                 | 1.7      | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | CO-COMP       | 0.83           | --                           | --               | --                       | 0.34    | --      | 0.8                 | 4.2      | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0143         | --                           | 1.1              | --                       | 0.0166  | --      | 0.031               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0159         | --                           | 1.1              | --                       | --      | --      | 0.033               | 0.070    | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX-COMP | 0.0263         | --                           | 1.1              | --                       | 0.0172  | --      | 0.026               | 0.080    | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0016         | --                           | --               | --                       | 0.0006  | --      | 0.002               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | PM            | 0.001          | --                           | --               | --                       | 0.0002  | --      | 0.001               | 0.003    | Pass      |

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

## Certification Summary Information Report

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

## Test Results

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

Certification Summary Information Report

| Test Group                 |             | VPRXJ04.0HV8                                                       |               |                       |     | Evaporative/Refueling Family |                          |                       |         | VPRXR0180RPH        |          |           |  |
|----------------------------|-------------|--------------------------------------------------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|-----------------------|---------|---------------------|----------|-----------|--|
|                            |             | Test Result Name                                                   |               | Unrounded Test Result |     |                              |                          | Verify Calculated CO2 |         |                     |          |           |  |
|                            |             | Carbon dioxide                                                     |               | 397.4179              |     |                              |                          | --                    |         |                     |          |           |  |
| Manufacturer Test Comments |             | Cayenne Turbo E-Hybrid models; CS 50F E10; Internal Test #24032618 |               |                       |     |                              |                          |                       |         |                     |          |           |  |
| Certification Region       | Useful Life | Standard Level                                                     | Emission Name | Rounded Result        | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF                | Mult DF | Certification Level | Standard | Pass/Fail |  |
| CA                         | 4,000 miles | California LEV-IV ULEV70                                           | CO            | 0.35                  | --  | --                           | --                       | 0.34                  | --      | 0.7                 | 1.7      | Pass      |  |
| CA                         | 4,000 miles | California LEV-IV ULEV70                                           | NMOG          | 0.0099                | --  | 1.1                          | --                       | 0.0166                | --      | 0.026               | 999.999  | Pass      |  |
| CA                         | 4,000 miles | California LEV-IV ULEV70                                           | NMOG+NOX      | 0.0118                | --  | 1.1                          | --                       | --                    | --      | 0.029               | 0.140    | Pass      |  |
| CA                         | 4,000 miles | California LEV-IV ULEV70                                           | NOX           | 0.0019                | --  | --                           | --                       | 0.0006                | --      | 0.002               | 999.999  | Pass      |  |

## Certification Summary Information Report

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

## Test Results

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

Certification Summary Information Report

| Test Group                 |               | VPRXJ04.0HV8                                                                |               |                       |     | Evaporative/Refueling Family |                          |                       |         | VPRXR0180RPH        |          |           |  |
|----------------------------|---------------|-----------------------------------------------------------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|-----------------------|---------|---------------------|----------|-----------|--|
|                            |               | Test Result Name                                                            |               | Unrounded Test Result |     |                              |                          | Verify Calculated CO2 |         |                     |          |           |  |
|                            |               | Carbon dioxide                                                              |               | 565.2739              |     |                              |                          | --                    |         |                     |          |           |  |
| Manufacturer Test Comments |               | Cayenne Turbo E-Hybrid (V8) models; CS COLD CO E10; Internal Test #24032629 |               |                       |     |                              |                          |                       |         |                     |          |           |  |
| Certification Region       | Useful Life   | Standard Level                                                              | Emission Name | Rounded Result        | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF                | Mult DF | Certification Level | Standard | Pass/Fail |  |
| Fed                        | 50,000 miles  | Federal Tier 3 Bin 70                                                       | CO            | 0.77                  | --  | --                           | --                       | 0.34                  | --      | 1.1                 | 12.5     | Pass      |  |
| Fed                        | 120,000 miles | Federal Tier 3 Bin 70                                                       | HC-NM         | 0.05                  | --  | --                           | --                       | 0.01                  | --      | 0.1                 | 0.3      | Pass      |  |
| CA                         | 50,000 miles  | California LEV-IV ULEV70                                                    | CO            | 0.77                  | --  | --                           | --                       | 0.34                  | --      | 1.1                 | 12.5     | Pass      |  |
| CA                         | 120,000 miles | California LEV-IV ULEV70                                                    | HC-NM         | 0.05                  | --  | --                           | --                       | 0.01                  | --      | 0.1                 | 0.3      | Pass      |  |

## Certification Summary Information Report

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

## Test Results

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

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

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 303.9768              | --                    |

## Manufacturer Test Comments

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

## Certification Summary Information Report

| Test Group           |               | VPRXJ04.0HV8             |               |                |     | Evaporative/Refueling Family |                          |        |         | VPRXR0180RPH        |          |           |
|----------------------|---------------|--------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level           | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | CREE          | 999            | --  | --                           | --                       | 0      | --      | 999                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG          | 0.0005         | --  | 1.03                         | --                       | 0.0166 | --      | 0.017               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG+NOX      | 0.0014         | --  | 1.03                         | --                       | --     | --      | 0.019               | 0.070    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NOX           | 0.0009         | --  | --                           | --                       | 0.0006 | --      | 0.002               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0005         | --  | 1.03                         | --                       | 0.0166 | --      | 0.017               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0014         | --  | 1.03                         | --                       | --     | --      | 0.019               | 0.070    | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0009         | --  | --                           | --                       | 0.0006 | --      | 0.002               | 999.999  | Pass      |

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

## Certification Summary Information Report

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

## Test Results

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

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

## Certification Summary Information Report

| Test Group                 |               | VPRXJ04.0HV8                                                             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VPRXR0180RPH        |          |           |
|----------------------------|---------------|--------------------------------------------------------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name                                                         |               | Unrounded Test Result |     | Verify Calculated CO2        |                          |        |         |                     |          |           |
|                            |               | Carbon dioxide                                                           |               | 456.2321              |     | --                           |                          |        |         |                     |          |           |
| Manufacturer Test Comments |               | Cayenne Turbo E-Hybrid (V8) models; CS US06 E10; Internal Test #24032636 |               |                       |     |                              |                          |        |         |                     |          |           |
| Certification Region       | Useful Life   | Standard Level                                                           | Emission Name | Rounded Result        | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70                                                    | CO            | 0.62                  | --  | --                           | --                       | 0.34   | --      | 1                   | 999.9    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70                                                    | NMOG          | 0.0084                | --  | 1.03                         | --                       | 0.0166 | --      | 0.025               | 999.999  | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70                                                    | NOX           | 0.0043                | --  | --                           | --                       | 0.0006 | --      | 0.005               | 999.999  | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70                                                    | PM            | 0.0017                | --  | --                           | --                       | 0.0002 | --      | 0.002               | 0.006    | Pass      |
| CA                         | 4,000 miles   | California LEV-IV ULEV70                                                 | CO            | 0.62                  | --  | --                           | --                       | 0.34   | --      | 1                   | 999.9    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70                                                 | NMOG          | 0.0084                | --  | 1.03                         | --                       | 0.0166 | --      | 0.025               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70                                                 | NOX           | 0.0043                | --  | --                           | --                       | 0.0006 | --      | 0.005               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70                                                 | PM            | 0.0017                | --  | --                           | --                       | 0.0002 | --      | 0.002               | 0.006    | Pass      |

## Certification Summary Information Report

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

## Test Results

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

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 453.4713              | --                    |

## Manufacturer Test Comments

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

## Certification Summary Information Report

| Test Group           |               | VPRXJ04.0HV8             |               |                | Evaporative/Refueling Family |                  |                          |        |         | VPRXR0180RPH        |          |           |
|----------------------|---------------|--------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level           | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | CO            | 0.51           | --                           | --               | --                       | 0.34   | --      | 0.8                 | 999.9    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG          | 0              | --                           | 1.1              | --                       | 0.0166 | --      | 0.017               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NOX           | 0              | --                           | --               | --                       | 0.0006 | --      | 0.001               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.51           | --                           | --               | --                       | 0.34   | --      | 0.8                 | 999.9    | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0              | --                           | --               | --                       | 0.0166 | --      | 0.017               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0              | --                           | --               | --                       | 0.0006 | --      | 0.001               | 999.999  | Pass      |

## Certification Summary Information Report

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

## Certification Summary Information Report

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

## Certification Summary Information Report

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

## Charge Depleting Bag/Phase #5

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

## Charge Depleting Bag/Phase #6

## Certification Summary Information Report

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

## Charge Depleting Bag/Phase #7

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

## Charge Depleting Bag/Phase #8

## Certification Summary Information Report

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

## Charge Depleting Bag/Phase #9

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

## Manufacturer Test Comments

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

## Certification Summary Information Report

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

## Certification Summary Information Report

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

## Certification Summary Information Report

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

## Charge Depleting Bag/Phase #5

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

## Charge Depleting Bag/Phase #6

## Certification Summary Information Report

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

## Charge Depleting Bag/Phase #7

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

## Charge Depleting Bag/Phase #8

## Charge Depleting Bag/Phase #9

### Manufacturer Test Comments

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## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VPRXJ04.0HV8 | <b>Evaporative/Refueling Family</b> | VPRXR0180RPH |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

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

**Vehicle Model**

|                                      |         |                                       |                              |
|--------------------------------------|---------|---------------------------------------|------------------------------|
| <b>Represented Test Vehicle Make</b> | Porsche | <b>Represented Test Vehicle Model</b> | Cayenne Turbo E-Hybrid Coupe |
|--------------------------------------|---------|---------------------------------------|------------------------------|

  
**Leak Family Details**

|                               |    |                         |    |
|-------------------------------|----|-------------------------|----|
| <b>Leak Family Identifier</b> | -- | <b>Leak Family Name</b> | -- |
|-------------------------------|----|-------------------------|----|

  
**Drive Sources and Fuel System Details**

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

  

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

  
**Dynamometer Coefficients:**

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

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## Certification Summary Information Report

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

## Test Results

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

## Certification Summary Information Report

| Test Group                                                                                                              |               | VPRXJ04.0HV8                                                            |               |                       | Evaporative/Refueling Family |                                 |                          |         | VPRXR0180RPH |                     |          |           |
|-------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------|---------------|-----------------------|------------------------------|---------------------------------|--------------------------|---------|--------------|---------------------|----------|-----------|
|                                                                                                                         |               | Test Result Name                                                        |               | Unrounded Test Result |                              | Verify Calculated CREE/OPT-CREE |                          |         |              |                     |          |           |
|                                                                                                                         |               | Carbon-Related Exhaust Emissions                                        |               | 377.4216              |                              | 378                             |                          |         |              |                     |          |           |
|                                                                                                                         |               | Test Result Name                                                        |               | Unrounded Test Result |                              | Verify Calculated CO2           |                          |         |              |                     |          |           |
|                                                                                                                         |               | Carbon dioxide                                                          |               | 376.7057              |                              | --                              |                          |         |              |                     |          |           |
| Manufacturer Test Comments                                                                                              |               | Cayenne Turbo E-Hybrid Coupe; FEDV1; CS FTP E0; Internal Test #24032611 |               |                       |                              |                                 |                          |         |              |                     |          |           |
| Certification Region                                                                                                    | Useful Life   | Standard Level                                                          | Emission Name | Rounded Result        | RAF                          | NMOG/NM HC Ratio                | Diesel Adjustment Factor | Add DF  | Mult DF      | Certification Level | Standard | Pass/Fail |
| Fed                                                                                                                     | 120,000 miles | Federal Tier 3 Bin 70                                                   | METHANE       | 0.004                 | --                           | --                              | --                       | 0.0028  | --           | 0.007               | 0.030    | Pass      |
| Fed                                                                                                                     | 120,000 miles | Federal Tier 3 Bin 70                                                   | N2O           | 0.0005                | --                           | --                              | --                       | 0.0012  | --           | 0.002               | 0.010    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70                                                   | CO            | 0.41                  | --                           | --                              | --                       | 0.34    | --           | 0.8                 | 2.1      | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70                                                   | CREE          | 378                   | --                           | --                              | --                       | 0       | --           | 378                 | --       | --        |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70                                                   | NMOG          | 0.0205                | --                           | 1.1                             | --                       | 0.01663 | --           | 0.037               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70                                                   | NMOG+NOX      | 0.0228                | --                           | 1.1                             | --                       | --      | --           | 0.04                | 0.070    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70                                                   | NOX           | 0.0023                | --                           | --                              | --                       | 0.0006  | --           | 0.003               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70                                                   | PM            | 0.0009                | --                           | --                              | --                       | 0.0002  | --           | 0.001               | 0.003    | Pass      |
| CA                                                                                                                      | 120,000 miles | California LEV-IV ULEV70                                                | METHANE       | 0.004                 | --                           | --                              | --                       | 0.0028  | --           | 0.007               | 0.030    | Pass      |
| CA                                                                                                                      | 120,000 miles | California LEV-IV ULEV70                                                | N2O           | 0.0005                | --                           | --                              | --                       | 0.0012  | --           | 0.002               | 0.010    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70                                                | CO            | 0.41                  | --                           | --                              | --                       | 0.34    | --           | 0.8                 | 1.7      | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70                                                | NMOG          | 0.0205                | --                           | 1.1                             | --                       | 0.0166  | --           | 0.037               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70                                                | NMOG+NOX      | 0.0228                | --                           | 1.1                             | --                       | --      | --           | 0.04                | 0.070    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70                                                | NOX           | 0.0023                | --                           | --                              | --                       | 0.0006  | --           | 0.003               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70                                                | PM            | 0.0009                | --                           | --                              | --                       | 0.0002  | --           | 0.001               | 0.003    | Pass      |
| NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values. |               |                                                                         |               |                       |                              |                                 |                          |         |              |                     |          |           |

## Certification Summary Information Report

|                                                    |                                                                             |                                                                 |                           |
|----------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------|
| <b>Test Group</b>                                  | VPRXJ04.0HV8                                                                | <b>Evaporative/Refueling Family</b>                             | VPRXR0180RPH              |
| <b>Test #</b>                                      | <b>SPRX10087468</b>                                                         | <b>Test Procedure</b>                                           | <b>3 - HWFE</b>           |
| <b>Exhaust Test # for this Evap Test</b>           | --                                                                          | <b>Test Fuel Type</b>                                           | 61 - Tier 2 Cert Gasoline |
| <b>Test Date</b>                                   | 06/19/2024                                                                  | <b>Fuel</b>                                                     | Gasoline                  |
| <b>Fuel Batch ID</b>                               | W21                                                                         | <b>Fuel Calibration Number</b>                                  | 2668                      |
| <b>Vehicle Class</b>                               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)                                  | <b>DF Type</b>                                                  | EPA Assigned              |
| <b>Verify Test Lab ID</b>                          | Porsche AG, Labs and Engineering                                            |                                                                 |                           |
| <b>E10 Evaporative Test Measurement Method</b>     | --                                                                          |                                                                 |                           |
| <b>Test Start Odometer Reading</b>                 | 4377                                                                        | <b>Odometer Units</b>                                           | M                         |
| <b>4WD Test Dyno</b>                               | Yes                                                                         | <b>Diesel Adjustment Factor Usage</b>                           | --                        |
| <b>State of Charge Delta</b>                       | Yes                                                                         |                                                                 |                           |
| <b>Drive Cycle Speed Tolerance Criteria</b>        | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)                                   | <b>Road Speed Fan Usage</b>                                     | Yes                       |
| <b>Test Results</b>                                |                                                                             |                                                                 |                           |
| <b>Test Result Name</b>                            | <b>Unrounded Test Result</b>                                                | <b>Verify Calculated FE Equivalent Value (miles per gallon)</b> |                           |
| METHANE (CH4 - Methane)                            | 0.0028577                                                                   | --                                                              |                           |
| CO (Carbon Monoxide)                               | 0.3118162                                                                   | --                                                              |                           |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -3.4177                                                                     | --                                                              |                           |
| DT-EER (Drive Trace Energy Economy Rating)         | -1.3913                                                                     | --                                                              |                           |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -4.0639                                                                     | --                                                              |                           |
| MFR FE (Manufacturer Fuel Economy)                 | 28.6702                                                                     | 28.6702                                                         |                           |
| NOX (Nitrogen Oxide)                               | 0.0002213                                                                   | --                                                              |                           |
| N2O (Nitrous Oxide)                                | 0                                                                           | --                                                              |                           |
| HC-NM (Non-methane Hydrocarbon)                    | 0.002772                                                                    | --                                                              |                           |
| NMOG (Non-methane organic gases)                   | 0.0028552                                                                   | --                                                              |                           |
| PM (Particulate Matter)                            | 0.0002001                                                                   | --                                                              |                           |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0055094                                                                   | --                                                              |                           |
| <b>Test Result Name</b>                            | <b>Unrounded Test Result</b>                                                | <b>Verify Calculated CREE/OPT-CREE</b>                          |                           |
| Carbon-Related Exhaust Emissions                   | 309.2608                                                                    | 310                                                             |                           |
| <b>Test Result Name</b>                            | <b>Unrounded Test Result</b>                                                | <b>Verify Calculated CO2</b>                                    |                           |
| Carbon dioxide                                     | 308.7535                                                                    | --                                                              |                           |
| <b>Manufacturer Test Comments</b>                  | Cayenne Turbo E-Hybrid Coupe V8; FEDV1; CS HFET E0; Internal test #24032612 |                                                                 |                           |

## Certification Summary Information Report

| Test Group           |               | VPRXJ04.0HV8             |               |                |     | Evaporative/Refueling Family |                          |        |         | VPRXR0180RPH        |          |           |
|----------------------|---------------|--------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level           | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | CREE          | 310            | --  | --                           | --                       | 0      | --      | 310                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG          | 0.0029         | --  | 1.03                         | --                       | 0.0166 | --      | 0.02                | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NMOG+NOX      | 0.0031         | --  | 1.03                         | --                       | --     | --      | 0.02                | 0.070    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 70    | NOX           | 0.0002         | --  | --                           | --                       | 0.0006 | --      | 0.001               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0029         | --  | 1.03                         | --                       | 0.0166 | --      | 0.02                | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0031         | --  | 1.03                         | --                       | --     | --      | 0.02                | 0.070    | Pass      |
| CA                   | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0002         | --  | --                           | --                       | 0.0006 | --      | 0.001               | 999.999  | Pass      |

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

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VPRXJ04.0HV8 | <b>Evaporative/Refueling Family</b> | VPRXR0180RPH |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |                   |                                                  |              |
|-----------------------------------------|-------------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | EVAP-972TH-25 / 0 | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | SPRXV04.0PH8      | <b>Original Evaporative/Refueling Family</b>     | SPRXR0180RPH |
| <b>Original Test Vehicle Model Year</b> | 2025              |                                                  |              |

**Vehicle Model**

|                                      |         |                                       |                     |
|--------------------------------------|---------|---------------------------------------|---------------------|
| <b>Represented Test Vehicle Make</b> | Porsche | <b>Represented Test Vehicle Model</b> | Panamera Turbo PHEV |
|--------------------------------------|---------|---------------------------------------|---------------------|

  
**Leak Family Details**

|                               |    |                         |    |
|-------------------------------|----|-------------------------|----|
| <b>Leak Family Identifier</b> | -- | <b>Leak Family Name</b> | -- |
|-------------------------------|----|-------------------------|----|

  
**Drive Sources and Fuel System Details**

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

  

|                                           |                                                                                                 |                                                       |                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|
| <b>Hybrid Indicator</b>                   | Yes                                                                                             |                                                       |                 |
| <b>Multiple Fuel Storage</b>              | --                                                                                              | <b>Multiple Fuel Combustion</b>                       | --              |
| <b>Fuel Cell Indicator</b>                | No                                                                                              | <b>Rechargeable Energy Storage System Indicator</b>   | Yes             |
| <b>Rechargeable Energy Storage System</b> | Battery(s)                                                                                      | <b>Rechargeable Energy Storage System, if 'Other'</b> | --              |
| <b>Off-board charge Capable Indicator</b> | Yes                                                                                             |                                                       |                 |
| <b>Odometer Correction -- Initial</b>     | 0                                                                                               | <b>Odometer Correction Factor</b>                     | 0.997           |
| <b>Odometer Correction Sign</b>           | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles |                                                       |                 |
| <b>Odometer Correction Units</b>          | Miles                                                                                           |                                                       |                 |
| <b>Engine Code</b>                        | DVT                                                                                             | <b>Rated Horsepower</b>                               | 512             |
| <b>Displacement (liters)</b>              | 4                                                                                               |                                                       |                 |
| <b>Air Aspiration Method</b>              | Turbocharged                                                                                    | <b>Air Aspiration Method, if 'Other'</b>              |                 |
| <b>Number of Air Aspiration Devices</b>   | 2                                                                                               | <b>Air Aspiration Device Configuration</b>            | Parallel        |
| <b>Charge Air Cooler Type</b>             | Air                                                                                             | <b>Drive Mode While Testing</b>                       | All Wheel Drive |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 4,000 (mi)      |
| <b>Curb Weight (lbs)</b>                  | 5481                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 6000            |
| <b>GVWR (lbs)</b>                         | 6239                                                                                            | <b>N/V Ratio</b>                                      | 20.3            |
| <b>Axle Ratio</b>                         | 3.15                                                                                            |                                                       |                 |
| <b>Transmission Type</b>                  | Automated Manual- Selectable (e.g. Automated Manual with paddles)                               | <b># of Transmission Gears</b>                        | 8               |
| <b>Transmission Lockup</b>                | No                                                                                              | <b>Creep Gear</b>                                     | No              |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VPRXJ04.0HV8 | <b>Evaporative/Refueling Family</b> | VPRXR0180RPH |
|-------------------|--------------|-------------------------------------|--------------|

  

**Dynamometer Coefficients:**

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

  

**Emission Control Device Comments**      --

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

  

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

  

**Test Results**

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

  

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

  

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.1332         | 0.003  | 0.136               | 0.3      | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.1332         | 0.003  | 0.136               | 0.3      | Pass      |

|                                         |                                            |                                |                                                    |
|-----------------------------------------|--------------------------------------------|--------------------------------|----------------------------------------------------|
| Test Group                              | VPRXJ04.0HV8                               | Evaporative/Refueling Family   | VPRXR0180RPH                                       |
| Test #                                  | SPRX10087692                               | Test Procedure                 | 34 - Federal fuel 3-day evap                       |
| Exhaust Test # for this Evap Test       | SPRX10087690                               | Test Fuel Type                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| Test Date                               | 08/10/2024                                 | Fuel                           | Gasoline                                           |
| Fuel Batch ID                           | T3E10                                      | Fuel Calibration Number        | 6088                                               |
| Vehicle Class                           | N/A                                        | DF Type                        | EPA Assigned                                       |
| Verify Test Lab ID                      | IDIADA-Santa Oliva                         |                                |                                                    |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) |                                |                                                    |
| Test Start Odometer Reading             | 7109                                       | Odometer Units                 | K                                                  |
| 4WD Test Dyno                           | Yes                                        | Diesel Adjustment Factor Usage | --                                                 |
| State of Charge Delta                   | Yes                                        |                                |                                                    |
| Drive Cycle Speed Tolerance Criteria    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | Road Speed Fan Usage           | Yes                                                |

Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|-----------------------------------------------------------|-----------------------|----------------------------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.169                 | --                                                       |

Manufacturer Test Comments3-day diurnal, E10 fuel; Porsche test number LM240701703

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.169          | 0.0067 | 0.176               | 0.3      | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.169          | 0.0067 | 0.176               | 0.3      | Pass      |

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

Test Results

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

Manufacturer Test CommentsRunning Loss test, E10 fuel; Porsche test number LM2407017\_03

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

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                      | VPRXJ04.0HV8                               | <b>Evaporative/Refueling Family</b>                      | VPRXR0180RPH                                       |                       |                       |                                                          |                                            |                  |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|--------------------------------------------|------------------|----|
| <b>Test #</b>                                                                                                                                                                                                                                          | <b>SPRX10087694</b>                        | <b>Test Procedure</b>                                    | <b>24 - Federal fuel refueling test (ORVR)</b>     |                       |                       |                                                          |                                            |                  |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                               | SPRX10087688                               | <b>Test Fuel Type</b>                                    | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |                       |                       |                                                          |                                            |                  |    |
| <b>Test Date</b>                                                                                                                                                                                                                                       | 07/11/2024                                 | <b>Fuel</b>                                              | Gasoline                                           |                       |                       |                                                          |                                            |                  |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                   | W23                                        | <b>Fuel Calibration Number</b>                           | 2518                                               |                       |                       |                                                          |                                            |                  |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                   | N/A                                        | <b>DF Type</b>                                           | EPA Assigned                                       |                       |                       |                                                          |                                            |                  |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                              | Porsche AG, Labs and Engineering           |                                                          |                                                    |                       |                       |                                                          |                                            |                  |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                         | Calculated (1.08 x FID Total Hydrocarbons) |                                                          |                                                    |                       |                       |                                                          |                                            |                  |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                     | 6539                                       | <b>Odometer Units</b>                                    | K                                                  |                       |                       |                                                          |                                            |                  |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                   | Yes                                        | <b>Diesel Adjustment Factor Usage</b>                    | --                                                 |                       |                       |                                                          |                                            |                  |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                           | Yes                                        |                                                          |                                                    |                       |                       |                                                          |                                            |                  |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                            | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>                              | Yes                                                |                       |                       |                                                          |                                            |                  |    |
| <b>Test Results</b>                                                                                                                                                                                                                                    |                                            |                                                          |                                                    |                       |                       |                                                          |                                            |                  |    |
| <table border="1"> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr> <tr> <td>HC (Hydrocarbon for Running Loss and ORVR)</td><td>0.0023</td><td>--</td></tr> </table> |                                            |                                                          |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | HC (Hydrocarbon for Running Loss and ORVR) | 0.0023           | -- |
| Test Result Name                                                                                                                                                                                                                                       | Unrounded Test Result                      | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                       |                       |                                                          |                                            |                  |    |
| HC (Hydrocarbon for Running Loss and ORVR)                                                                                                                                                                                                             | 0.0023                                     | --                                                       |                                                    |                       |                       |                                                          |                                            |                  |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                      |                                            |                                                          |                                                    |                       |                       |                                                          |                                            |                  |    |
| ORVR for evap; E10 fuel; Porsche test number 24031358                                                                                                                                                                                                  |                                            |                                                          |                                                    |                       |                       |                                                          |                                            |                  |    |
| <b>Certification Region</b>                                                                                                                                                                                                                            | <b>Useful Life</b>                         | <b>Standard Level</b>                                    | <b>Emission Name</b>                               | <b>Rounded Result</b> | <b>Add DF</b>         | <b>Certification Level</b>                               | <b>Standard</b>                            | <b>Pass/Fail</b> |    |
| Fed                                                                                                                                                                                                                                                    | 150,000 miles                              | Federal Tier 3 Evap                                      | HC                                                 | 0.002                 | 0.005                 | 0.01                                                     | 0.02                                       | Pass             |    |
| CA                                                                                                                                                                                                                                                     | 150,000 miles                              | California LEV-IV Zero Evap (Option 2)                   | HC                                                 | 0.002                 | 0.005                 | 0.01                                                     | 0.2                                        | Pass             |    |

## Certification Summary Information Report

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

## Certification Summary Information Report

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

## Certification Summary Information Report

| Test Group                     |               | VPRXJ04.0HV8                               |     |             | Evaporative/Refueling Family    |                                   | VPRXR0180RPH                            |         |         |
|--------------------------------|---------------|--------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|-----------------------------------------|---------|---------|
| Consolidated List of Standards |               |                                            |     |             |                                 |                                   |                                         |         |         |
| Exhaust Standards              |               |                                            |     |             |                                 |                                   |                                         |         |         |
| Cert Region                    |               | Federal                                    |     |             | Cert/In-Use Code                |                                   | Cert                                    |         |         |
| Vehicle Class                  |               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   | Federal Tier 3 Bin 70                   |         |         |
| Fuel                           |               | Gasoline                                   |     |             | Test Procedure                  |                                   | Federal fuel 2-day exhaust (w/can load) |         |         |
| Useful Life                    | Emission Name | Rounded Result                             | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF                                 | Add DF  | Std     |
| 120,000 miles                  | METHANE       | --                                         | --  | --          | --                              | --                                | --                                      | 0.0028  | 0.030   |
| 120,000 miles                  | N2O           | --                                         | --  | --          | --                              | --                                | --                                      | 0.0012  | 0.010   |
| 150,000 miles                  | CO            | --                                         | --  | --          | --                              | --                                | --                                      | 0.34    | 2.1     |
| 150,000 miles                  | CO-COMP       | --                                         | --  | --          | --                              | --                                | --                                      | 0.34    | 4.2     |
| 150,000 miles                  | CREE          | --                                         | --  | --          | --                              | --                                | --                                      | 0       | 999.9   |
| 150,000 miles                  | HCHO          | --                                         | --  | --          | --                              | --                                | --                                      | 0.0005  | 0.004   |
| 150,000 miles                  | NMOG          | --                                         | --  | 1.1         | --                              | --                                | --                                      | 0.01663 | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | --  | 1.1         | --                              | --                                | --                                      | 0.0172  | 0.070   |
| 150,000 miles                  | NMOG+NOX-COMP | --                                         | --  | 1.1         | --                              | --                                | --                                      | 0.01722 | 0.080   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --                                      | 0.0006  | 999.999 |
| 150,000 miles                  | PM            | --                                         | --  | --          | --                              | --                                | --                                      | 0.0002  | 0.003   |
|                                |               |                                            |     |             |                                 |                                   |                                         |         |         |
| Cert Region                    |               | California + CAA Section 177 states        |     |             | Cert/In-Use Code                |                                   | Cert                                    |         |         |
| Vehicle Class                  |               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   | California LEV-IV ULEV70                |         |         |
| Fuel                           |               | Gasoline                                   |     |             | Test Procedure                  |                                   | SC03                                    |         |         |
| Useful Life                    | Emission Name | Rounded Result                             | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF                                 | Add DF  | Std     |
| 150,000 miles                  | CO            | --                                         | --  | --          | --                              | --                                | --                                      | 0.34    | 999.9   |
| 150,000 miles                  | NMOG          | --                                         | --  | --          | --                              | --                                | --                                      | 0.0166  | 999.999 |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --                                      | 0.0006  | 999.999 |
|                                |               |                                            |     |             |                                 |                                   |                                         |         |         |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VPRXJ04.0HV8                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VPRXR0180RPH          |            |
| <b>Cert Region</b>   |                      | Federal                                    |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 70 |            |
| <b>Fuel</b>          |                      | Gasoline                                   |            |                    | <b>Test Procedure</b>                  |                                          |                | SC03                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                      | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 150,000 miles        | CO                   | --                                         | --         | --                 | --                                     | --                                       | --             | 0.34                  | 999.9      |
| 150,000 miles        | NMOG                 | --                                         | --         | 1.1                | --                                     | --                                       | --             | 0.0166                | 999.999    |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | 0.0006                | 999.999    |

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

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

## Certification Summary Information Report

|                      |                                            |                       |            |                              |                                        |                                          |                       |               |            |
|----------------------|--------------------------------------------|-----------------------|------------|------------------------------|----------------------------------------|------------------------------------------|-----------------------|---------------|------------|
| <b>Test Group</b>    | VPRXJ04.0HV8                               |                       |            | Evaporative/Refueling Family |                                        |                                          | VPRXR0180RPH          |               |            |
| <b>Cert Region</b>   | Federal                                    |                       |            | <b>Cert/In-Use Code</b>      |                                        |                                          | Cert                  |               |            |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                       |            | <b>Standard Level</b>        |                                        |                                          | Federal Tier 3 Bin 70 |               |            |
| <b>Fuel</b>          | Gasoline                                   |                       |            | <b>Test Procedure</b>        |                                        |                                          | US06                  |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b>                       | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b>           | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>        | <b>Add DF</b> | <b>Std</b> |
| 150,000 miles        | CO                                         | --                    | --         | --                           | --                                     | --                                       | --                    | 0.34          | 999.9      |
| 150,000 miles        | NMOG                                       | --                    | --         | 1.03                         | --                                     | --                                       | --                    | 0.0166        | 999.999    |
| 150,000 miles        | NOX                                        | --                    | --         | --                           | --                                     | --                                       | --                    | 0.0006        | 999.999    |
| 150,000 miles        | PM                                         | --                    | --         | --                           | --                                     | --                                       | --                    | 0.0002        | 0.006      |

|                      |                                            |                       |            |                         |                                        |                                          |                                         |               |            |
|----------------------|--------------------------------------------|-----------------------|------------|-------------------------|----------------------------------------|------------------------------------------|-----------------------------------------|---------------|------------|
| <b>Cert Region</b>   | California + CAA Section 177 states        |                       |            | <b>Cert/In-Use Code</b> |                                        |                                          | Cert                                    |               |            |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                       |            | <b>Standard Level</b>   |                                        |                                          | California LEV-IV ULEV70                |               |            |
| <b>Fuel</b>          | Gasoline                                   |                       |            | <b>Test Procedure</b>   |                                        |                                          | Federal fuel 2-day exhaust (w/can load) |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b>                       | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b>      | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>                          | <b>Add DF</b> | <b>Std</b> |
| 120,000 miles        | METHANE                                    | --                    | --         | --                      | --                                     | --                                       | --                                      | 0.0028        | 0.030      |
| 120,000 miles        | N2O                                        | --                    | --         | --                      | --                                     | --                                       | --                                      | 0.0012        | 0.010      |
| 150,000 miles        | CO                                         | --                    | --         | --                      | --                                     | --                                       | --                                      | 0.34          | 1.7        |
| 150,000 miles        | CO-COMP                                    | --                    | --         | --                      | --                                     | --                                       | --                                      | 0.34          | 4.2        |
| 150,000 miles        | HCHO                                       | --                    | --         | --                      | --                                     | --                                       | --                                      | 0.0005        | 0.004      |
| 150,000 miles        | NMOG                                       | --                    | --         | 1.1                     | --                                     | --                                       | --                                      | 0.0166        | 999.999    |
| 150,000 miles        | NMOG+NOX                                   | --                    | --         | 1.1                     | --                                     | --                                       | --                                      | 0.0172        | 0.070      |
| 150,000 miles        | NMOG+NOX-COMP                              | --                    | --         | 1.1                     | --                                     | --                                       | --                                      | 0.0172        | 0.080      |
| 150,000 miles        | NOX                                        | --                    | --         | --                      | --                                     | --                                       | --                                      | 0.0006        | 999.999    |
| 150,000 miles        | PM                                         | --                    | --         | --                      | --                                     | --                                       | --                                      | 0.0002        | 0.003      |

## Certification Summary Information Report

|                      |                                            |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|--------------------------------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    | VPRXJ04.0HV8                               |                       |            |                    | Evaporative/Refueling Family           |                                          |                | VPRXR0180RPH          |            |
| <b>Cert Region</b>   | Federal                                    |                       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                       |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 70 |            |
| <b>Fuel</b>          | Gasoline                                   |                       |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b>                       | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 150,000 miles        | CREE                                       | --                    | --         | --                 | --                                     | --                                       | --             | 0                     | 999.9      |
| 150,000 miles        | NMOG                                       | --                    | --         | 1.03               | --                                     | --                                       | --             | 0.0166                | 999.999    |
| 150,000 miles        | NMOG+NOX                                   | --                    | --         | 1.03               | --                                     | --                                       | --             | 0.0172                | 0.070      |
| 150,000 miles        | NOX                                        | --                    | --         | --                 | --                                     | --                                       | --             | 0.0006                | 999.999    |

|                      |                                            |                       |            |                    |                                        |                                          |                |                          |            |
|----------------------|--------------------------------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   | California + CAA Section 177 states        |                       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                       |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV ULEV70 |            |
| <b>Fuel</b>          | Gasoline                                   |                       |            |                    | <b>Test Procedure</b>                  |                                          |                | Fed. fuel 50 F exh.      |            |
| <b>Useful Life</b>   | <b>Emission Name</b>                       | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>            | <b>Std</b> |
| 4,000 miles          | CO                                         | --                    | --         | --                 | --                                     | --                                       | --             | 0.34                     | 1.7        |
| 4,000 miles          | HCHO                                       | --                    | --         | --                 | --                                     | --                                       | --             | 0.0005                   | 0.016      |
| 4,000 miles          | NMOG                                       | --                    | --         | 1.1                | --                                     | --                                       | --             | 0.0166                   | 999.999    |
| 4,000 miles          | NMOG+NOX                                   | --                    | --         | 1.1                | --                                     | --                                       | --             | 0.0172                   | 0.140      |
| 4,000 miles          | NOX                                        | --                    | --         | --                 | --                                     | --                                       | --             | 0.0006                   | 999.999    |

|                      |                                            |                       |            |                    |                                        |                                          |                |                          |            |
|----------------------|--------------------------------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   | California + CAA Section 177 states        |                       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                       |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV ULEV70 |            |
| <b>Fuel</b>          | Gasoline                                   |                       |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                     |            |
| <b>Useful Life</b>   | <b>Emission Name</b>                       | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>            | <b>Std</b> |
| 150,000 miles        | NMOG                                       | --                    | --         | 1.03               | --                                     | --                                       | --             | 0.0166                   | 999.999    |
| 150,000 miles        | NMOG+NOX                                   | --                    | --         | 1.03               | --                                     | --                                       | --             | 0.0172                   | 0.070      |
| 150,000 miles        | NOX                                        | --                    | --         | --                 | --                                     | --                                       | --             | 0.0006                   | 999.999    |

## Certification Summary Information Report

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

## Evaporative/Refueling Standards

|                              |               |                         |                |                |        |                                        |  |
|------------------------------|---------------|-------------------------|----------------|----------------|--------|----------------------------------------|--|
| Evaporative/Refueling Family |               | VPRXR0180RPH            |                | Cert Region    |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Both                    |                | Standard Level |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel 3-day evap |                |                |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name           | Rounded Result | Std            | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV          | --             | 0.300          | 0.0067 |                                        |  |

|                              |               |                |                |                                        |        |  |
|------------------------------|---------------|----------------|----------------|----------------------------------------|--------|--|
| Evaporative/Refueling Family | VPRXR0180RPH  |                | Cert Region    | California + CAA Section 177 states    |        |  |
| Cert/In-Use Code             | Both          |                | Standard Level | California LEV-IV Zero Evap (Option 2) |        |  |
| Test Procedure               | 2-day evap    |                |                |                                        |        |  |
| Fuel                         | Useful Life   | Emission Name  | Rounded Result | Std                                    | Add DF |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV | --             | 0.300                                  | 0.003  |  |

|                              |  |                         |  |                |  |                     |  |       |  |        |  |
|------------------------------|--|-------------------------|--|----------------|--|---------------------|--|-------|--|--------|--|
| Evaporative/Refueling Family |  | VPRXR0180RPH            |  | Cert Region    |  | Federal             |  |       |  |        |  |
| Cert/In-Use Code             |  | Both                    |  | Standard Level |  | Federal Tier 3 Evap |  |       |  |        |  |
| Test Procedure               |  | Federal fuel 3-day evap |  |                |  |                     |  |       |  |        |  |
| Fuel                         |  | Useful Life             |  | Emission Name  |  | Rounded Result      |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles           |  | HC-TOTAL-EQUIV |  | --                  |  | 0.300 |  | 0.0067 |  |

|                              |               |                                    |                |                |        |                                        |  |
|------------------------------|---------------|------------------------------------|----------------|----------------|--------|----------------------------------------|--|
| Evaporative/Refueling Family |               | VPRXR0180RPH                       |                | Cert Region    |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Both                               |                | Standard Level |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std            | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC                                 | --             | 0.20           | 0.005  |                                        |  |

## Certification Summary Information Report

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

## Certification Summary Information Report

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

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

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

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