

# TOYOTA

## Application For Certification - Part 1 2027 Model Year

**Durability Group** : VTYXHHGNNB21

**Evap/refueling Families** : VTYXR0265J62

**Test Group** : VTYXT03.4B5C

**Durability Group Description** : Four Stroke, Otto Cycle, Gasoline Fueled,  
Ported FI,  
Catalyst code: 3-IIr3+3-IIr3+3-IIh13+3-IIh13

**Test Group Description** : 3.4 Liter V6 LDT4

**Applicable Standards** : Federal State: Interim Tier4 - Bin 70 - LDT4  
California: See Federal

**Carlines Covered** : SEQUOIA 4WD (Hybrid)

**Engine Series** : V35A-FTS

**Vehicles Tested** :

| Vehicle I.D. | Config. | Test         | Test Number                |
|--------------|---------|--------------|----------------------------|
| 22-VK3H      | 00      | FTP          | NTYX10072540               |
| 22-VK3H      | 00      | HWY          | NTYX10072550               |
| 22-VK3H      | 00      | SFTP         | NTYX10072539, NTYX10072575 |
| 22-VK3H      | 00      | C.CO, C.HC   | NTYX10072537               |
| 23-VK2H      | 00      | EVAP         | PTYX10073426, PTYX10073418 |
| 23-VK2H      | 00      | Running Loss | PTYX10073417               |
| 23-VK2H      | 00      | Refueling    | PTYX10073420               |

**EPA Response Requested By** : **September 11, 2026**

**For Questions, Contact** : Lisa Florida 734-695-2697

**Note** :

# TOYOTA

## Application For Certification - Part 1 2027 Model Year

**Durability Group** : VTYXHHGNNB21

**Evap/refueling Families** : VTYXR0325J62

**Test Group** : VTYXT03.4B5C

**Durability Group Description** : Four Stroke, Otto Cycle, Gasoline Fueled,  
Ported FI,  
Catalyst code: 3-IIr3+3-IIr3+3-IIh13+3-IIh13

**Test Group Description** : 3.4 Liter V6 LDT4

**Applicable Standards** : Federal State: Interim Tier4 - Bin 70 - LDT4  
California: See Federal

**Carlines Covered** : TUNDRA 4WD, TUNDRA 4WD PRO  
(Hybrid)

**Engine Series** : V35A-FTS

**Vehicles Tested** :

| Vehicle I.D. | Config. | Test         | Test Number                |
|--------------|---------|--------------|----------------------------|
| 22-VK3H      | 00      | FTP          | NTYX10072540               |
| 22-VK3H      | 00      | HWY          | NTYX10072550               |
| 22-VK3H      | 00      | SFTP         | NTYX10072539, NTYX10072575 |
| 22-VK3H      | 00      | C.CO, C.HC   | NTYX10072537               |
| 22-VK2H      | 00      | EVAP         | NTYX10072574, NTYX10072553 |
| 22-VK2H      | 00      | Running Loss | NTYX10072551               |
| 22-VK2H      | 00      | Refueling    | NTYX10072554               |

**EPA Response Requested By** : **September 11, 2026**

**For Questions, Contact** : Lisa Florida 734-695-2697

**Note** :

# TOYOTA

## Application For Certification - Part 1 2027 Model Year

**Durability Group** : VTYXHHGNNB21

**Evap/refueling Families** : VTYXR0170J62

**Test Group** : VTYXT03.4B5C

**Durability Group Description** : Four Stroke, Otto Cycle, Gasoline Fueled,  
Ported FI,  
Catalyst code: 3-IIr3+3-IIr3+3-IIh13+3-IIh13

**Test Group Description** : 3.4 Liter V6 LDT4

**Applicable Standards** : Federal State: Interim Tier4 - Bin 70 - LDT4  
California: See Federal

**Carlines Covered** : LX 700h (Hybrid)

**Engine Series** : V35A-FTS

**Vehicles Tested** :

| Vehicle I.D. | Config. | Test         | Test Number                |
|--------------|---------|--------------|----------------------------|
| 22-VK3H      | 00      | FTP          | NTYX10072540               |
| 22-VK3H      | 00      | HWY          | NTYX10072550               |
| 22-VK3H      | 00      | SFTP         | NTYX10072539, NTYX10072575 |
| 22-VK3H      | 00      | C.CO, C.HC   | NTYX10072537               |
| 24-TN2H      | 00      | EVAP         | RTYX10084963, RTYX10085261 |
| 24-TN2H      | 00      | Running Loss | RTYX10085258               |
| 25-TN2H      | 00      | Refueling    | STYX10085722               |

**EPA Response Requested By** : **September 11, 2026**

**For Questions, Contact** : Lisa Florida 734-695-2697

**Note** :

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1. **Correspondence and Communications**

Please refer to the FOI common file.

2. **Durability Group Description**

Durability Group Name : VTYXHHGNNB21

Please refer to the common file for details.

3. **Evaporative/Refueling Family Description**

Evaporative/Refueling Family Name : VTYXR0265J62 (SEQUOIA)  
VTYXR0325J62 (TUNDRA)  
VTYXR0170J62 (LX 700h)

Please refer to the FOI common file for details.

**4. Durability Procedure Description**

4.1 Exhaust Durability Test Procedure

4.2 Durability Showing

4.3 Evap/refueling Durability Test Procedure

Please refer to the CBI common file.

4.4 Exhaust Emission Deterioration Factors

4.5 Evap/refueling Emission Deterioration Factors

4.6 Equivalency Factor

Please refer to Certification Summary Information Report in Section 7 or FOI common file.

**TRD Performance Package**

Durability: Catalyst thermal degradation does not increase with the performance package and there is no difference in catalyst temperature model or control between the original software and performance package software. There is no negative impact to catalyst durability with the performance package.

Exhaust Emissions: Toyota conducted emission evaluations with the TRD Performance Package and confirmed that test results have negligible to slight improvement compared to EDV configuration. Considering changepoints and test results from completed tests, Toyota used Good Engineering Judgement (GEJ) to judge there is no need for certification testing.

## 5. Test Group Description

|     |                                                                        |   |                                   |
|-----|------------------------------------------------------------------------|---|-----------------------------------|
| 5.1 | Test group name                                                        | : | VTYXT03.4B5C                      |
| 5.2 | Engine displacements covered                                           | : | 3,445 cm <sup>3</sup> (210.2 CID) |
| 5.3 | Arrangement and number of cylinders                                    | : | V6                                |
| 5.4 | Vehicle class (es) covered                                             | : | LDT4                              |
| 5.5 | Federal emission standards class                                       | : | Interim Tier4 - Bin70 - LDT4      |
| 5.6 | Applicable emission standards                                          |   |                                   |
|     | Please refer to Certification Summary Information Report in Section 7. |   |                                   |

**6. Test Vehicle Description**

**DDV**: Utilizing good engineering judgement that considered vehicle curb weight, road load coefficients, catalyst heat stress, we judged 22MY TUNDRA (HEV) is the representative DDV in this Durability Group. TUNDRA (HEV) was chosen as representative DDV because it has the same engine (V35A-FTS), same ECS, and the exact same catalyst specification.

**EDV**: Utilizing good engineering judgement that considered vehicle curb weight, road load coefficients, catalyst heat stress, we judged 22MY TUNDRA (HEV) is the representative EDV in this Test Group. TUNDRA (HEV) was chosen as representative EDV because it has the same engine (V35A-FTS), same ECS, and the exact same catalyst specification.

For complete vehicle description, refer to Certification Summary Information Report Sheet, enclosed in Section 7 of this application.

## Certification Summary Information Report

|                                   |                          |                                     |                        |
|-----------------------------------|--------------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Toyota Motor Corporation | <b>Manufacturer Code</b>            | TYX                    |
| <b>Test Group</b>                 | VTYXT03.4B5C             | <b>Evaporative/Refueling Family</b> | VTYXR0265J62           |
| <b>Certificate Number</b>         | --                       | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | --                       | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | --                       | <b>Conditional Certificate</b>      | --                     |
| <b>CSI Revision #</b>             | --                       | <b>CSI Submission/Revision Date</b> | 08/17/2026 07:44:26 PM |
| <b>Model Year</b>                 | 2027                     |                                     |                        |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VTYXT03.4B5C | <b>Evaporative/Refueling Family</b> | VTYXR0265J62 |
|-------------------|--------------|-------------------------------------|--------------|

  
**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:** Combustion Engine

|             |                                          |                                     |
|-------------|------------------------------------------|-------------------------------------|
| <b>Fuel</b> | <b>Basic Fuel Metering System</b>        | <b>Lean Burn Strategy Indicator</b> |
| Gasoline    | Spark Ignition direct & ported injection | No                                  |

  

**Drive Source #2:** Electric Motor

|             |                                   |                                     |
|-------------|-----------------------------------|-------------------------------------|
| <b>Fuel</b> | <b>Basic Fuel Metering System</b> | <b>Lean Burn Strategy Indicator</b> |
| Electricity | --                                | No                                  |

  

|                                                     |                        |                                                            |              |
|-----------------------------------------------------|------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | Yes                    |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                     | <b>Rechargeable Energy Storage System Indicator</b>        | Yes          |
| <b>Multiple Fuel Combustion</b>                     | --                     | <b>Off-board Charge Capable Indicator</b>                  | No           |
| <b>Fuel Cell Indicator</b>                          | No                     | <b>EPA Vehicle Class</b>                                   | LDT4         |
| <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>                        | VTYXHHGNNB21           | <b>Durability Group Equivalency Factor</b>                 | 1.4          |
| <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>              | 10/01/2026             | <b>CAP2000 Conditional Certificate?</b>                    | N/A          |
| <b>Independent Commercial Importer?</b>             | --                     | <b>Alternative Fuel Converter Certificate?</b>             | --           |
| <b>SFTP Federal Composite Compliance Identifier</b> | Tier 3                 | <b>SFTP Tier 2 Composite CO Option</b>                     | No           |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | Yes                    |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                   | <b>OBD Demonstration Vehicle Test Group</b>                | VTYXT03.4B5A |
| <b>Test Group OBD Compliance Level</b>              | Full - no deficiencies | <b>Number of Test Group OBD Deficiencies</b>               | 0            |
| <b>OBD Deficiencies Comments</b>                    | --                     |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | --                     |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                     |                                                            |              |

## Certification Summary Information Report

|                                                                             |                          |                                                           |                                     |                                                          |                     |                     |                       |
|-----------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------|-------------------------------------|----------------------------------------------------------|---------------------|---------------------|-----------------------|
| <b>Test Group</b>                                                           | VTYXT03.4B5C             | <b>Evaporative/Refueling Family</b>                       | VTYXR0265J62                        |                                                          |                     |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |                          |                                                           |                                     |                                                          |                     |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | New                      | <b>Submission/Correction Date</b>                         | 07/07/2026 02:05:15 AM              |                                                          |                     |                     |                       |
| <b>Integrated ORVR?</b>                                                     | No                       | <b>Fuel(s)</b>                                            | Electricity, Gasoline               |                                                          |                     |                     |                       |
| <b>Multiple Fuel Storage</b>                                                | Fuels Stored Together    |                                                           |                                     |                                                          |                     |                     |                       |
| <b>Bladder Fuel Tank?</b>                                                   | No                       |                                                           |                                     |                                                          |                     |                     |                       |
| <b>Fuel Tank Material</b>                                                   | Plastic                  | <b>Fuel Tank Material Description</b>                     | EVOH                                |                                                          |                     |                     |                       |
| <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> | 265                      | <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>                            | --                       |                                                           |                                     |                                                          |                     |                     |                       |
| <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> |
| Toyota Motor Corporation                                                    | 1 - TOYOTA               | 185 - SEQUOIA 4WD                                         | California + CAA Section 177 states | Part-time 4-Wheel Drive                                  | Semi-Automatic      | 10                  | Yes                   |
| Toyota Motor Corporation                                                    | 1 - TOYOTA               | 185 - SEQUOIA 4WD                                         | Federal                             | Part-time 4-Wheel Drive                                  | Semi-Automatic      | 10                  | Yes                   |
| <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>                      | 0W-20               |                     |                       |
| <b>Number of Cylinders/Rotors</b>                                           | 6                        |                                                           |                                     | <b>Mechanically Variable Compression Ratio Indicator</b> | N                   |                     |                       |

## Certification Summary Information Report

|                                                  |                               |                                                         |                           |
|--------------------------------------------------|-------------------------------|---------------------------------------------------------|---------------------------|
| <b>Test Group</b>                                | VTYXT03.4B5C                  | <b>Evaporative/Refueling Family</b>                     | VTYXR0265J62              |
| <b>After Treatment Device(s) (ATD)</b>           |                               |                                                         |                           |
| <b>ATD Number</b>                                | <b>ATD Type</b>               | <b>ATD Precious Metal</b>                               | <b>Substrate Material</b> |
| 1                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 2                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 3                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 4                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Direct Ozone Reduction (DOR) Device</b>       |                               |                                                         |                           |
| Not Equipped                                     |                               |                                                         |                           |
| <b>Mfr Emission Control Device Comments</b>      |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Engine Configuration Number 1</b>             |                               |                                                         |                           |
| <b>Engine Displacement (liters)</b>              | 3.4                           | <b>Engine Rated Horsepower</b>                          | 389                       |
| <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>                           | Liquid                    |
| <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>  | Intake and exhaust            |                                                         |                           |
| <b>Variable Valve Lift?</b>                      | No                            |                                                         |                           |
| <b>Variable Valve Lift System Description</b>    | --                            |                                                         |                           |
| <b>Number of Knock Sensors</b>                   | 2                             | <b>Number of Air/Fuel Sensors</b>                       | 4                         |
| <b>Air/Fuel Sensor # 1 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 1 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 2 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 2 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 3 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 3 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 4 Type</b>                  | Heated air fuel               | <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>                 | No                        |
| <b>EGR Type</b>                                  | --                            | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --                        |
| <b>Closed Loop Air Injection System</b>          | No                            |                                                         |                           |
| <b>Air Injection Type</b>                        | Not Applicable                | <b>Air Injection Type if 'Other'</b>                    | --                        |
| <b>Mfr Engine Configuration Comments</b>         | APPLIED TO SEQUOIA AND TUNDRA |                                                         |                           |

## Certification Summary Information Report

| Test Group                               | VTYXT03.4B5C                                           | Evaporative/Refueling Family                     | VTYXR0265J62 |
|------------------------------------------|--------------------------------------------------------|--------------------------------------------------|--------------|
| <b>Engine Configuration Number 2</b>     |                                                        |                                                  |              |
| Engine Displacement (liters)             | 3.4                                                    | Engine Rated Horsepower                          | 418          |
| 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                           | Liquid       |
| Air Aspiration Drive Method(s)           | Mechanical                                             |                                                  |              |
| Cylinder Deactivation                    | No                                                     |                                                  |              |
| Cylinder Deactivation Description        | --                                                     |                                                  |              |
| Variable Valve Timing                    | Yes                                                    |                                                  |              |
| Variable Valve Timing System Description | Intake and exhaust                                     |                                                  |              |
| Variable Valve Lift?                     | No                                                     |                                                  |              |
| Variable Valve Lift System Description   | --                                                     |                                                  |              |
| Number of Knock Sensors                  | 2                                                      | Number of Air/Fuel Sensors                       | 4            |
| Air/Fuel Sensor # 1 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 1 Description                  | --           |
| Air/Fuel Sensor # 2 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 2 Description                  | --           |
| Air/Fuel Sensor # 3 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 3 Description                  | --           |
| Air/Fuel Sensor # 4 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 4 Description                  | --           |
| Mfr Air/Fuel Sensor Comments             | --                                                     |                                                  |              |
| Exhaust Gas Recirculation                | No                                                     | Cooled Exhaust Gas Recirculation                 | No           |
| EGR Type                                 | --                                                     | Exhaust Gas Recirculation Description if 'Other' | --           |
| Closed Loop Air Injection System         | No                                                     |                                                  |              |
| Air Injection Type                       | Not Applicable                                         | Air Injection Type if 'Other'                    | --           |
| Mfr Engine Configuration Comments        | APPLIED TO SEQUOIA AND TUNDRA TRD PERFORMANCE PACKAGE. |                                                  |              |

## Certification Summary Information Report

|                                                 |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
|-------------------------------------------------|---------------------|---------------------------------------------------------|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | VTYXT03.4B5C        | <b>Evaporative/Refueling Family</b>                     | VTYXR0265J62 |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 3</b>            |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 3.4                 | <b>Engine Rated Horsepower</b>                          | 409          |                |                |                              |                                  |                                 |                                     |                              |
| <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>                           | Liquid       |                |                |                              |                                  |                                 |                                     |                              |
| <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> | Intake and exhaust  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | No                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | --                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 2                   | <b>Number of Air/Fuel Sensors</b>                       | 4            |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 1 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 1 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 2 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 2 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 3 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 3 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 4 Type</b>                 | Heated air fuel     | <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>                 | No           |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | --                  | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Closed Loop Air Injection System</b>         | No                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Injection Type</b>                       | Not Applicable      | <b>Air Injection Type if 'Other'</b>                    | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Engine Configuration Comments</b>        | APPLIED TO LX 700h. |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Official Test Numbers</b>                    |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group 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                                        | NTYX10072540        | NTYX10072539                                            | NTYX10072575 | NTYX10072537   | NTYX10072550   | 999.9                        | 228.2                            | 999.9                           | 286.1                               | --                           |
| Electricity                                     | NTYX10072540        | NTYX10072539                                            | NTYX10072575 | NTYX10072537   | NTYX10072550   | --                           | --                               | --                              | --                                  | --                           |
| <b>SFTP LEV-III Official Test Numbers</b>       |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group Fuel</b>                          | <b>FTP</b>          | <b>US06</b>                                             | <b>SC03</b>  |                |                |                              |                                  |                                 |                                     |                              |
| Gasoline                                        | NTYX10072540        | NTYX10072539                                            | NTYX10072575 |                |                |                              |                                  |                                 |                                     |                              |
| Electricity                                     | NTYX10072540        | NTYX10072539                                            | NTYX10072575 |                |                |                              |                                  |                                 |                                     |                              |

## Certification Summary Information Report

| Test Group                                               | VTYXT03.4B5C           | Evaporative/Refueling Family                | VTYXR0265J62 |
|----------------------------------------------------------|------------------------|---------------------------------------------|--------------|
| <b>Hybrid Electric Vehicle And Fuel Cell Information</b> |                        |                                             |              |
| Rechargable Energy Storage System                        | Battery(s)             | Rechargable Energy Storage System, if Other | --           |
| Battery Type                                             | NiMH                   | Number of Battery Packs                     | 1            |
| Total Voltage of Battery Packs                           | 288                    | Battery Energy Capacity                     | 6.5          |
| Battery Specific Energy                                  | 33                     | Battery Charger Type                        | On-Board     |
| Number of Capacitors                                     | --                     | Capacitor Rating (In Farads)                | --           |
| Mfr Capacitor Comments                                   | --                     |                                             |              |
| Hydraulic System Description                             | --                     |                                             |              |
| Regenerative Braking Type                                | Electrical Regen Brake |                                             |              |
| Regenerative Braking Source                              | Both                   | Driver Controlled Regenerative Braking      | No           |
| Mfr Regenerative Braking Description                     | --                     |                                             |              |
| Drive Motor(s)/Generator(s)                              | 1                      |                                             |              |
| Motor/Generator Type 1                                   | AC SYNCHRONOUS         | Rated Motor/Generator Power                 | 36           |
| Mfr Fuel Cell Description                                | --                     |                                             |              |
| Fuel Cell On-Board H2 Storage Capacity (kg)              | --                     | Usable H2 Fill Capacity (kg)                | --           |
| Mfr Hybrid Electric/ Electric Vehicle Comments           | --                     |                                             |              |

## Certification Summary Information Report

| <b>Test Group</b>                            | VTYXT03.4B5C                                                                                                                                                                                                                                                              | <b>Evaporative/Refueling Family</b>                   | VTYXR0265J62        |      |   |                |             |   |                   |          |  |  |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|------|---|----------------|-------------|---|-------------------|----------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                                                                                                                           |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Vehicle ID / Configuration</b>            | 22-VK3H / 0                                                                                                                                                                                                                                                               | <b>Manufacturer Vehicle Configuration Number</b>      | 0                   |      |   |                |             |   |                   |          |  |  |
| <b>Original Test Group Name</b>              | NTYXT03.4M53                                                                                                                                                                                                                                                              | <b>Original Evaporative/Refueling Family</b>          | NTYXR0325J92        |      |   |                |             |   |                   |          |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2022                                                                                                                                                                                                                                                                      |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                                                                                                                           |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Represented Test Vehicle Make</b>         | TOYOTA                                                                                                                                                                                                                                                                    | <b>Represented Test Vehicle Model</b>                 | TUNDRA 4WD PRO      |      |   |                |             |   |                   |          |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                                                                                                                           |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                                                                                                                        | <b>Leak Family Name</b>                               | --                  |      |   |                |             |   |                   |          |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                                                                                                                           |                                                       |                     |      |   |                |             |   |                   |          |  |  |
|                                              | <table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> <tr> <td>2</td><td>Combustion Engine</td><td>Gasoline</td></tr> </tbody> </table> | Drive Source and Fuel#                                | Drive Source        | Fuel | 1 | Electric Motor | Electricity | 2 | Combustion Engine | Gasoline |  |  |
| 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>    | No                                                                                                                                                                                                                                                                        |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Odometer Correction -- Initial</b>        | 11                                                                                                                                                                                                                                                                        | <b>Odometer Correction Factor</b>                     | 1                   |      |   |                |             |   |                   |          |  |  |
| <b>Odometer Correction Sign</b>              | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor                                                                                                                                                                           |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                                                                                                                     |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Engine Code</b>                           | 01                                                                                                                                                                                                                                                                        | <b>Rated Horsepower</b>                               | 389                 |      |   |                |             |   |                   |          |  |  |
| <b>Displacement (liters)</b>                 | 3.445                                                                                                                                                                                                                                                                     |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <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>                | Liquid                                                                                                                                                                                                                                                                    | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |      |   |                |             |   |                   |          |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                                                                                                                              | <b>Aged Emission Components</b>                       | 4,000 (mi)          |      |   |                |             |   |                   |          |  |  |
| <b>Curb Weight (lbs)</b>                     | 6105                                                                                                                                                                                                                                                                      | <b>Equivalent Test Weight (pounds)</b>                | 6500                |      |   |                |             |   |                   |          |  |  |
| <b>GVWR (lbs)</b>                            | 7615                                                                                                                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 21.6                |      |   |                |             |   |                   |          |  |  |
| <b>Axle Ratio</b>                            | 3.31                                                                                                                                                                                                                                                                      |                                                       |                     |      |   |                |             |   |                   |          |  |  |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                                                                                                                                 | <b># of Transmission Gears</b>                        | 10                  |      |   |                |             |   |                   |          |  |  |
| <b>Transmission Lockup</b>                   | Yes                                                                                                                                                                                                                                                                       | <b>Creep Gear</b>                                     | No                  |      |   |                |             |   |                   |          |  |  |

Certification Summary Information Report

|                                    |         |                       |                |                  |                              |                |                                                                                  |  |
|------------------------------------|---------|-----------------------|----------------|------------------|------------------------------|----------------|----------------------------------------------------------------------------------|--|
| Test Group                         |         | VTYXT03.4B5C          |                |                  | Evaporative/Refueling Family |                | VTYXR0265J62                                                                     |  |
| Dynamometer Coefficients:          |         |                       |                |                  |                              |                |                                                                                  |  |
| Target Coefficients                |         |                       |                | Set Coefficients |                              |                | EPA Calculated Total Road Load Horse Power for<br>City/Highway/Evap Coefficients |  |
| Coefficient<br>Category            | A (lbf) | B (lbf/mph)           | C (lbf/mph**2) | A (lbf)          | B (lbf/mph)                  | C (lbf/mph**2) |                                                                                  |  |
| City/Highway/Evap                  | 52.888  | 0.36819               | 0.038109       | 32.705           | -0.16677                     | 0.040326       | 22.2                                                                             |  |
| Cold CO                            | 58.176  | 0.405                 | 0.04192        | 35.234           | -0.36467                     | 0.045181       | N/A                                                                              |  |
| US06                               | 52.888  | 0.36819               | 0.038109       | 32.705           | -0.16677                     | 0.040326       | N/A                                                                              |  |
| Emission Control Device Comments   |         | --                    |                |                  |                              |                |                                                                                  |  |
| Manufacturer Test Vehicle Comments |         | Drive mode is SPORT+. |                |                  |                              |                |                                                                                  |  |

## Certification Summary Information Report

| Test Group                                     | VTYXT03.4B5C                                                                 | Evaporative/Refueling Family          | VTYXR0265J62                               |
|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------|
| <b>Test #</b>                                  | <b>NTYX10072537</b>                                                          | <b>Test Procedure</b>                 | <b>11 - Cold CO</b>                        |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 28 - Cold CO E10 Regular Gasoline (Tier 3) |
| <b>Test Date</b>                               | 10/08/2021                                                                   | <b>Fuel</b>                           | Gasoline                                   |
| <b>Fuel Batch ID</b>                           | 2F1-13                                                                       | <b>Fuel Calibration Number</b>        | 1                                          |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                            |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                            |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                            |
| <b>Test Start Odometer Reading</b>             | 5528                                                                         | <b>Odometer Units</b>                 | M                                          |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 4 (Bag 4 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 4 (Bag 4 Fuel Economy)                      | 0                     | 0                                                        |
| METHANE (CH4 - Methane)                            | 0.0222013             | --                                                       |
| CO (Carbon Monoxide)                               | 0.8982357             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.5                   | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.08                  | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.8                   | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0080948             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0037981             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.1565507             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.1772236             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

Certification Summary Information Report

|                            |               |                          |               |                       |     |                              |                          |        |         |                     |          |           |  |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|--|
| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0265J62        |          |           |  |
|                            |               | Test Result Name         |               | Unrounded Test Result |     |                              | Verify Calculated CO2    |        |         |                     |          |           |  |
|                            |               | Carbon dioxide           |               | 0                     |     |                              | --                       |        |         |                     |          |           |  |
| Manufacturer Test Comments |               | --                       |               |                       |     |                              |                          |        |         |                     |          |           |  |
| 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            | 0.90                  | --  | --                           | --                       | 0.01   | --      | 0.9                 | 12.5     | Pass      |  |
| Fed                        | 120,000 miles | Federal Tier 3 Bin 70    | HC-NM         | 0.16                  | --  | --                           | --                       | 0.01   | --      | 0.2                 | 0.5      | Pass      |  |
| CA                         | 50,000 miles  | California LEV-IV ULEV70 | CO            | 0.90                  | --  | --                           | --                       | 0.01   | --      | 0.9                 | 12.5     | Pass      |  |

## Certification Summary Information Report

|                                                |                                                                              |                                       |                                                     |
|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0265J62                                        |
| <b>Test #</b>                                  | NTYX10072540                                                                 | <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>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                            |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                   |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 5468                                                                         | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 4 (Bag 4 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 4 (Bag 4 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0052304             | --                                                       |
| CO (Carbon Monoxide)                               | 0.1361656             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.09                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.17                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.09                 | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0062076             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0018381             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0094042             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0103559             | --                                                       |
| PM (Particulate Matter)                            | 0.0013716             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0139602             | --                                                       |

## Certification Summary Information Report

| Test Group                                                                                                              |               | VTYXT03.4B5C                     |               |                       | Evaporative/Refueling Family |                                 |                          |        | VTYXR0265J62 |                     |          |           |
|-------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------|---------------|-----------------------|------------------------------|---------------------------------|--------------------------|--------|--------------|---------------------|----------|-----------|
|                                                                                                                         |               | Test Result Name                 |               | Unrounded Test Result |                              | Verify Calculated CREE/OPT-CREE |                          |        |              |                     |          |           |
|                                                                                                                         |               | Carbon-Related Exhaust Emissions |               | 0                     |                              | 999                             |                          |        |              |                     |          |           |
|                                                                                                                         |               | Test Result Name                 |               | Unrounded Test Result |                              | Verify Calculated CO2           |                          |        |              |                     |          |           |
|                                                                                                                         |               | Carbon dioxide                   |               | 0                     |                              | --                              |                          |        |              |                     |          |           |
| Manufacturer Test Comments                                                                                              |               | NMOG = HC-NM x 1.1012            |               |                       |                              |                                 |                          |        |              |                     |          |           |
| 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            | 0.14                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 1.7      | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | CO-COMP       | 0.25                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 4.2      | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | CREE          | 999                   | --                           | --                              | --                       | 0.041  | --           | 999                 | --       | --        |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NMOG          | 0.0104                | 1                            | 1.10                            | --                       | 0.0087 | --           | 0.019               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NMOG+NOX      | 0.0166                | 1                            | 1.10                            | --                       | --     | --           | 0.030               | 0.070    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NMOG+NOX-COMP | 0.0455                | 1                            | 1.03                            | --                       | 0.0138 | --           | 0.046               | 0.060    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NOX           | 0.0062                | --                           | --                              | --                       | 0.0051 | --           | 0.011               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | PM            | 0.0014                | --                           | --                              | --                       | 0.0000 | --           | 0.001               | 0.003    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | CO            | 0.14                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 1.7      | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | METHANE       | 0.0052                | --                           | --                              | --                       | 0.0033 | --           | 0.008               | 0.030    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | N2O           | 0.0018                | --                           | --                              | --                       | 0.0029 | --           | 0.005               | 0.010    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | NMOG          | 0.0104                | 1                            | 1.10                            | --                       | 0.0087 | --           | 0.019               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | NMOG+NOX      | 0.0166                | 1                            | 1.10                            | --                       | --     | --           | 0.030               | 0.070    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | NOX           | 0.0062                | --                           | --                              | --                       | 0.0051 | --           | 0.011               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | PM            | 0.0014                | --                           | --                              | --                       | 0.0000 | --           | 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>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0265J62                                       |
| <b>Test #</b>                                  | <b>NTYX10072550</b>                                                          | <b>Test Procedure</b>                 | <b>3 - HWFE</b>                                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5483                                                                         | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0007015             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0113892             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.47                  | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.17                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.36                  | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0017984             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0001354             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                       |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0004336             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | 999                             |

## Certification Summary Information Report

| Test Group                                                                                                              |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0265J62        |          |           |
|-------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                                                                                                                         |               | Test Result Name         |               | Unrounded Test Result |     | Verify Calculated CO2        |                          |        |         |                     |          |           |
|                                                                                                                         |               | Carbon dioxide           |               | 0                     |     | --                           |                          |        |         |                     |          |           |
| Manufacturer Test Comments                                                                                              |               | NMOG = HC-NM x 1.03      |               |                       |     |                              |                          |        |         |                     |          |           |
| 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                   | --  | --                           | --                       | 0.041  | --      | 999                 | --       | --        |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NMOG          | 0.0000                | 1   | 1.03                         | --                       | 0.0087 | --      | 0.009               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NMOG+NOX      | 0.0018                | 1   | 1.03                         | --                       | --     | --      | 0.016               | 0.070    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NOX           | 0.0018                | --  | --                           | --                       | 0.0051 | --      | 0.007               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0000                | 1   | 1.03                         | --                       | 0.0087 | --      | 0.009               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0018                | 1   | 1.03                         | --                       | --     | --      | 0.016               | 0.070    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0018                | --  | --                           | --                       | 0.0051 | --      | 0.007               | 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>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0265J62                                       |
| <b>Test #</b>                                  | NTYX10072539                                                                 | <b>Test Procedure</b>                 | <b>90 - US06</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5504                                                                         | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0046876             | --                                                       |
| CO (Carbon Monoxide)                               | 0.5395289             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.02                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.35                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.26                  | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0432136             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0038321             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.025101              | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.025854              | --                                                       |
| PM (Particulate Matter)                            | 0.0021434             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0294789             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

## Certification Summary Information Report

| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0265J62        |          |           |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name         |               | Unrounded Test Result |     | Verify Calculated CO2        |                          |        |         |                     |          |           |
|                            |               | Carbon dioxide           |               | 0                     |     | --                           |                          |        |         |                     |          |           |
| Manufacturer Test Comments |               | NMOG = HC-NM x 1.03      |               |                       |     |                              |                          |        |         |                     |          |           |
| 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    | PM            | 0.0021                | --  | --                           | --                       | 0.0000 | --      | 0.002               | 0.006    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.54                  | --  | --                           | --                       | 0.03   | --      | 0.6                 | 9.6      | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0259                | --  | 1.03                         | --                       | 0.0087 | --      | 0.035               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0691                | --  | 1.03                         | --                       | --     | --      | 0.083               | 0.084    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0432                | --  | --                           | --                       | 0.0051 | --      | 0.048               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | PM            | 0.0021                | --  | --                           | --                       | 0.0000 | --      | 0.002               | 0.006    | Pass      |

## Certification Summary Information Report

|                                                |                                           |                                       |                                                    |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                              | <b>Evaporative/Refueling Family</b>   | VTYXR0265J62                                       |
| <b>Test #</b>                                  | NTYX10072575                              | <b>Test Procedure</b>                 | 95 - SC03                                          |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/12/2021                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                    | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000)          | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                  |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5543                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                        | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0046633             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0518175             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.22                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.1                  | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.18                 | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0166562             | --                                                       |
| N2O (Nitrous Oxide)                                | 0                     | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0009788             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0010082             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0055242             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

Certification Summary Information Report

| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |                       |         | VTYXR0265J62        |          |           |  |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|-----------------------|---------|---------------------|----------|-----------|--|
|                            |               | Test Result Name         |               | Unrounded Test Result |     |                              |                          | Verify Calculated CO2 |         |                     |          |           |  |
|                            |               | Carbon dioxide           |               | 0                     |     |                              |                          | --                    |         |                     |          |           |  |
| Manufacturer Test Comments |               | NMOG = HC-NM x 1.03      |               |                       |     |                              |                          |                       |         |                     |          |           |  |
| 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                         | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.05                  | --  | --                           | --                       | 0.03                  | --      | 0.1                 | 1.7      | Pass      |  |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0010                | 1   | 1.03                         | --                       | 0.0087                | --      | 0.010               | 999.999  | Pass      |  |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0177                | 1   | 1.03                         | --                       | --                    | --      | 0.032               | 0.070    | Pass      |  |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0167                | --  | --                           | --                       | 0.0051                | --      | 0.022               | 999.999  | Pass      |  |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VTYXT03.4B5C | <b>Evaporative/Refueling Family</b> | VTYXR0265J62 |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |              |                                                  |              |
|-----------------------------------------|--------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | 23-VK2H / 0  | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | PTYXT03.4M53 | <b>Original Evaporative/Refueling Family</b>     | PTYXR0265J92 |
| <b>Original Test Vehicle Model Year</b> | 2023         |                                                  |              |

  
**Vehicle Model**

|                                      |        |                                       |             |
|--------------------------------------|--------|---------------------------------------|-------------|
| <b>Represented Test Vehicle Make</b> | TOYOTA | <b>Represented Test Vehicle Model</b> | SEQUOIA 2WD |
|--------------------------------------|--------|---------------------------------------|-------------|

  
**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> | No                                                                                              |                                                       |                     |
| <b>Odometer Correction -- Initial</b>     | 11                                                                                              | <b>Odometer Correction Factor</b>                     | 1                   |
| <b>Odometer Correction Sign</b>           | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor |                                                       |                     |
| <b>Odometer Correction Units</b>          | Miles                                                                                           |                                                       |                     |
| <b>Engine Code</b>                        | 04                                                                                              | <b>Rated Horsepower</b>                               | 389                 |
| <b>Displacement (liters)</b>              | 3.445                                                                                           |                                                       |                     |
| <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>             | Liquid                                                                                          | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 4,000 (mi)          |
| <b>Curb Weight (lbs)</b>                  | 5895                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 6000                |
| <b>GVWR (lbs)</b>                         | 7375                                                                                            | <b>N/V Ratio</b>                                      | 21.6                |
| <b>Axle Ratio</b>                         | 3.31                                                                                            |                                                       |                     |
| <b>Transmission Type</b>                  | Automatic                                                                                       | <b># of Transmission Gears</b>                        | 10                  |
| <b>Transmission Lockup</b>                | Yes                                                                                             | <b>Creep Gear</b>                                     | No                  |

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## Certification Summary Information Report

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                               | <b>Evaporative/Refueling Family</b>   | VTYXR0265J62                                       |
| <b>Test #</b>                                  | <b>PTYX10073418</b>                        | <b>Test Procedure</b>                 | <b>34 - Federal fuel 3-day evap</b>                |
| <b>Exhaust Test # for this Evap Test</b>       | PTYX10073415                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 12/21/2021                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                     | <b>Fuel Calibration Number</b>        | 4                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 4736                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.2343                | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

**Manufacturer Test Comments** HSL=0.0809, 1ST DBL=0.1535, 2ND DBL=0.0963, 3RD DBL=0.0840, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0120GRAM)

| 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 | 0.2343         | 0.0000 | 0.234               | 0.500    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.2343         | 0.0000 | 0.234               | 0.500    | Pass      |

## Certification Summary Information Report

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                               | <b>Evaporative/Refueling Family</b>   | VTYXR0265J62                                       |
| <b>Test #</b>                                  | <b>PTYX10073426</b>                        | <b>Test Procedure</b>                 | <b>23 - 2-day evap</b>                             |
| <b>Exhaust Test # for this Evap Test</b>       | PTYX10073401                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 01/12/2022                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                     | <b>Fuel Calibration Number</b>        | 5                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 4771                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.2293                | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

**Manufacturer Test Comments** HSL=0.0341, 1ST DBL=0.1952, 2ND DBL=0.1258, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0120GRAM)

| 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 | 0.2293         | 0.0000 | 0.229               | 0.500    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.2293         | 0.0000 | 0.229               | 0.500    | Pass      |

## Certification Summary Information Report

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                               | <b>Evaporative/Refueling Family</b>   | VTYXR0265J62                                       |
| <b>Test #</b>                                  | <b>PTYX10073417</b>                        | <b>Test Procedure</b>                 | <b>32 - Federal Fuel Running Loss</b>              |
| <b>Exhaust Test # for this Evap Test</b>       | PTYX10073415                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 12/21/2021                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                     | <b>Fuel Calibration Number</b>        | 4                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 4736                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| CO BAG 1 (Bag 1 Carbon Monoxide)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CH4 BAG 1 (Bag 1 Methane)                                 | 0                     | --                                                       |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)              | 0                     | --                                                       |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| CO BAG 2 (Bag 2 Carbon Monoxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CH4 BAG 2 (Bag 2 Methane)                                 | 0                     | --                                                       |
| NMOG BAG 2 (Bag 2 Non-methane organic gases)              | 0                     | --                                                       |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| CO BAG 3 (Bag 3 Carbon Monoxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| CH4 BAG 3 (Bag 3 Methane)                                 | 0                     | --                                                       |
| NMOG BAG 3 (Bag 3 Non-methane organic gases)              | 0                     | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0000074             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

Certification Summary Information Report

|                            |               |                                        |                |                              |        |                       |          |           |
|----------------------------|---------------|----------------------------------------|----------------|------------------------------|--------|-----------------------|----------|-----------|
| Test Group                 |               | VTYXT03.4B5C                           |                | Evaporative/Refueling Family |        | VTYXR0265J62          |          |           |
|                            |               | Test Result Name                       |                | Unrounded Test Result        |        | Verify Calculated CO2 |          |           |
|                            |               | Carbon dioxide                         |                | 0                            |        | --                    |          |           |
| Manufacturer Test Comments |               | --                                     |                |                              |        |                       |          |           |
| Certification Region       | Useful Life   | Standard Level                         | Emission Name  | Rounded Result               | Add DF | Certification Level   | Standard | Pass/Fail |
| Fed                        | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.000                        | 0.000  | 0.00                  | 0.05     | Pass      |
| CA                         | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.000                        | 0.000  | 0.00                  | 0.01     | Pass      |

## Certification Summary Information Report

| Test Group                                     | VTYXT03.4B5C                               | Evaporative/Refueling Family          | VTYXR0265J62                                       |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>PTYX10073420</b>                        | <b>Test Procedure</b>                 | <b>24 - Federal fuel refueling test (ORVR)</b>     |
| <b>Exhaust Test # for this Evap Test</b>       | PTYX10073401                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 01/12/2022                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                     | <b>Fuel Calibration Number</b>        | 5                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 4771                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0026                | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

Manufacturer Test Comments --

| 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 | 0.003          | 0.000  | 0.00                | 0.20     | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.003          | 0.000  | 0.00                | 0.20     | Pass      |

## Certification Summary Information Report

| Test Group                                                                | VTYXT03.4B5C                                       | Evaporative/Refueling Family                                              | VTYXR0265J62 |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>2F1A01</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>2</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2021   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/01/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/31/2021   |
| <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>                                              | 0.74         |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.8                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17837        |
| <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> | 0.826                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>2F1A01</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>5</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2021   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 01/06/2022                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 01/31/2022   |
| <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>                                              | 0.74         |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.8                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17837        |
| <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> | 0.826                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>2F1-13</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 28 - Cold CO E10 Regular Gasoline (Tier 3)         | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2020   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/08/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/31/2021   |
| <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>                                              | 0.737        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 10                                                 | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17799        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.825                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>2F1A01</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>4</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2021   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 12/01/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2021   |

## Certification Summary Information Report

| Test Group                                                         | VTYXT03.4B5C | Evaporative/Refueling Family                                       | VTYXR0265J62 |
|--------------------------------------------------------------------|--------------|--------------------------------------------------------------------|--------------|
| Carbon Weight Fraction NMHC                                        | --           | Carbon Weight Fraction HC                                          | --           |
| Exhaust Carbon Weight Fraction                                     | --           | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --           | Fuel Specific Gravity                                              | 0.74         |
| Fuel Ethanol Volume Percent (%)                                    | 9.9          | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | 17837        |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | --           | Fuel Carbon Mass Fraction (E10)                                    | --           |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | 0.826        | Weight Fraction CO2                                                | --           |

## Certification Summary Information Report

|                                |               |                                            |     |             |                                 |                                   |                                         |        |         |
|--------------------------------|---------------|--------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|-----------------------------------------|--------|---------|
| Test Group                     |               | VTYXT03.4B5C                               |     |             | Evaporative/Refueling Family    |                                   | VTYXR0265J62                            |        |         |
| Consolidated List of Standards |               |                                            |     |             |                                 |                                   |                                         |        |         |
| Exhaust Standards              |               |                                            |     |             |                                 |                                   |                                         |        |         |
| Cert Region                    |               | California + CAA Section 177 states        |     |             | Cert/In-Use Code                |                                   | Cert                                    |        |         |
| Vehicle Class                  |               | LDT2 (LVW 3751-5750, GVW 0-6000)           |     |             | 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            | --                                         | --  | --          | --                              | --                                | --                                      | 0.03   | 1.7     |
| 150,000 miles                  | NMOG          | --                                         | 1   | 1.03        | --                              | --                                | --                                      | 0.0087 | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | 1   | 1.03        | --                              | --                                | --                                      | 0.0138 | 0.070   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --                                      | 0.0051 | 999.999 |
|                                |               |                                            |     |             |                                 |                                   |                                         |        |         |
| Cert Region                    |               | Federal                                    |     |             | Cert/In-Use Code                |                                   | Cert                                    |        |         |
| Vehicle Class                  |               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   | Federal Tier 3 Bin 70                   |        |         |
| Fuel                           |               | Gasoline                                   |     |             | Test Procedure                  |                                   | 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     |
| 150,000 miles                  | CO            | --                                         | --  | --          | --                              | --                                | --                                      | 0.03   | 1.7     |
| 150,000 miles                  | CO-COMP       | --                                         | --  | --          | --                              | --                                | --                                      | 0.03   | 4.2     |
| 150,000 miles                  | CREE          | --                                         | --  | --          | --                              | --                                | --                                      | 0.041  | 999.999 |
| 150,000 miles                  | HCHO          | --                                         | --  | --          | --                              | --                                | --                                      | --     | 0.004   |
| 150,000 miles                  | NMOG          | --                                         | 1   | 1.10        | --                              | --                                | --                                      | 0.0087 | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | 1   | 1.10        | --                              | --                                | --                                      | 0.0138 | 0.070   |
| 150,000 miles                  | NMOG+NOX-COMP | --                                         | 1   | 1.03        | --                              | --                                | --                                      | 0.0138 | 0.060   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --                                      | 0.0051 | 999.999 |
| 150,000 miles                  | PM            | --                                         | --  | --          | --                              | --                                | --                                      | 0.0000 | 0.003   |
|                                |               |                                            |     |             |                                 |                                   |                                         |        |         |

## Certification Summary Information Report

|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                        |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0265J62                            |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV ULEV70                |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | CA fuel 50 Deg(F) exhaust test          |            |
| <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                   | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 1.7        |
| 4,000 miles          | HCHO                 | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 0.016      |
| 4,000 miles          | NMOG                 | --                                  | 1          | 1.10               | --                                     | --                                       | --             | --                                      | 999.999    |
| 4,000 miles          | NMOG+NOX             | --                                  | 1          | 1.10               | --                                     | --                                       | 1              | --                                      | 0.140      |
| 4,000 miles          | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 999.999    |
|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.03                                    | 1.7        |
| 150,000 miles        | HCHO                 | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |
| 150,000 miles        | METHANE              | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0033                                  | 0.030      |
| 150,000 miles        | N2O                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0029                                  | 0.010      |
| 150,000 miles        | NMOG                 | --                                  | 1          | 1.10               | --                                     | --                                       | --             | 0.0087                                  | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | 1          | 1.10               | --                                     | --                                       | --             | 0.0138                                  | 0.070      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                                  | 999.999    |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0000                                  | 0.003      |
|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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          | 1.03               | --                                     | --                                       | --             | 0.0087                                  | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | 1          | 1.03               | --                                     | --                                       | --             | 0.0138                                  | 0.070      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                                  | 999.999    |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0265J62          |            |
| <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                 | --                                         | --         | --                 | --                                     | --                                       | --             | 0.041                 | 999.999    |
| 150,000 miles        | NMOG                 | --                                         | 1          | 1.03               | --                                     | --                                       | --             | 0.0087                | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | 1          | 1.03               | --                                     | --                                       | --             | 0.0138                | 0.070      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | 0.0051                | 999.999    |

|                      |                      |                                     |            |                    |                                        |                                          |                |                          |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.03                     | 9.6        |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.03               | --                                     | --                                       | --             | 0.0087                   | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | 1.03               | --                                     | --                                       | --             | 0.0138                   | 0.084      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                   | 999.999    |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0000                   | 0.006      |

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <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        | PM                   | --                                         | --         | --                 | --                                     | --                                       | --             | 0.0000                | 0.006      |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0265J62          |            |
| <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                   | --                                         | --         | --                 | --                                     | --                                       | --             | 0.01                  | 12.5       |
| 120,000 miles        | HC-NM                | --                                         | --         | --                 | --                                     | --                                       | --             | 0.01                  | 0.5        |

|                      |                      |                                     |            |                    |                                        |                                          |                |                          |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.01                     | 12.5       |

## Evaporative/Refueling Standards

|                              |               |                         |                |                |        |                     |  |
|------------------------------|---------------|-------------------------|----------------|----------------|--------|---------------------|--|
| Evaporative/Refueling Family |               | VTYXR0265J62            |                | Cert Region    |        | Federal             |  |
| Cert/In-Use Code             |               | Cert                    |                | Standard Level |        | Federal Tier 3 Evap |  |
| Test Procedure               |               | Federal fuel 3-day evap |                |                |        |                     |  |
| Fuel                         | Useful Life   | Emission Name           | Rounded Result | Std            | Add DF |                     |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV          | --             | 0.500          | 0.0000 |                     |  |

|                              |               |                           |                |                |        |                                        |  |
|------------------------------|---------------|---------------------------|----------------|----------------|--------|----------------------------------------|--|
| Evaporative/Refueling Family |               | VTYXR0265J62              |                | Cert Region    |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                      |                | Standard Level |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std            | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.01           | 0.000  |                                        |  |

|                              |               |                           |                |                |        |                     |  |
|------------------------------|---------------|---------------------------|----------------|----------------|--------|---------------------|--|
| Evaporative/Refueling Family |               | VTYXR0265J62              |                | Cert Region    |        | Federal             |  |
| Cert/In-Use Code             |               | Cert                      |                | Standard Level |        | Federal Tier 3 Evap |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                |        |                     |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std            | Add DF |                     |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.05           | 0.000  |                     |  |

## Certification Summary Information Report

|                              |               |                                    |                |                              |        |                                        |  |
|------------------------------|---------------|------------------------------------|----------------|------------------------------|--------|----------------------------------------|--|
| Test Group                   |               | VTYXT03.4B5C                       |                | Evaporative/Refueling Family |        | VTYXR0265J62                           |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0265J62                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.20                         | 0.000  |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0265J62                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.20                         | 0.000  |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0265J62                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | 2-day evap                         |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0.0000 |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0265J62                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | 2-day evap                         |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0.0000 |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0265J62                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel 3-day evap            |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0.0000 |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |

Certification Summary Information Report

|                              |  |              |  |                              |  |                     |  |
|------------------------------|--|--------------|--|------------------------------|--|---------------------|--|
| Test Group                   |  | VTYXT03.4B5C |  | Evaporative/Refueling Family |  | VTYXR0265J62        |  |
| Evaporative/Refueling Family |  | VTYXR0265J62 |  | Cert Region                  |  | Federal             |  |
| Cert/In-Use Code             |  | Cert         |  | Standard Level               |  | Federal Tier 3 Evap |  |
| Test Procedure               |  | Spitback     |  |                              |  |                     |  |
| Fuel                         |  | Useful Life  |  | Emission Name                |  | Rounded Result      |  |
| Std                          |  | Add DF       |  |                              |  |                     |  |
| Gasoline                     |  | 4,000 miles  |  | SPITBACK                     |  | --                  |  |
| 1.0                          |  |              |  |                              |  | --                  |  |

## Certification Summary Information Report

| Test Group     |                                                                 | VTYXT03.4B5C | Evaporative/Refueling Family |                                                    | VTYXR0265J62 |
|----------------|-----------------------------------------------------------------|--------------|------------------------------|----------------------------------------------------|--------------|
| Glossary       |                                                                 |              |                              |                                                    |              |
| Useful Life    |                                                                 |              |                              |                                                    |              |
| 4              | 4,000 miles                                                     |              | 120                          | 120,000 miles                                      |              |
| 50             | 50,000 miles                                                    |              | 150                          | 150,000 miles                                      |              |
| 100            | 100,000 miles                                                   |              |                              |                                                    |              |
| Emission Name  |                                                                 |              |                              |                                                    |              |
| HC-TOTAL       | Total Hydrocarbon                                               |              | COMB-CREE                    | Combined Carbon-Related Exhaust Emissions          |              |
| CO             | Carbon Monoxide                                                 |              | COMB-OPT-CREE                | Combined Optional Carbon-Related Exhaust Emissions |              |
| CO2            | Carbon dioxide                                                  |              | HC-TOTAL-EQUIV               | Total Hydrocarbon equivalent - Evap only           |              |
| CREE           | Carbon-Related Exhaust Emissions                                |              | METHANE-COMB                 | Combined CH4 for HD 2b/3 vehicles only             |              |
| OPT-CREE       | Optional Carbon-Related Exhaust Emissions                       |              | N2O-COMB                     | Combined Nitrous Oxide for HD 2b/3 vehicles only   |              |
| NOX            | Nitrogen Oxide                                                  |              | LEAK-DIA                     | Effective Leak Diameter (inches)                   |              |
| PM             | Particulate Matter                                              |              | LEAK-GAS CAP                 | Gas Cap Leakage (cc/min)                           |              |
| PM-COMP        | SFTP Composite Particulate Matter                               |              | CO2-COMB                     | Combined Carbon Dioxide for HD 2b/3 Vehicles Only  |              |
| HC-NM          | Non-methane Hydrocarbon                                         |              | KW-HRS                       | Integrated DC KW-HRS                               |              |
| OMHCE          | Organic material Hydrocarbon Equivalent                         |              | CH4 BAG 1                    | Bag 1 Methane                                      |              |
| OMNMHCE        | Organic material non-methane HC equivalent                      |              | CH4 BAG 2                    | Bag 2 Methane                                      |              |
| NMOG           | Non-methane organic gases                                       |              | CH4 BAG 3                    | Bag 3 Methane                                      |              |
| HCHO           | Formaldehyde                                                    |              | CH4 BAG 4                    | Bag 4 Methane                                      |              |
| H3C2HO         | Acetaldehyde                                                    |              | CO BAG 1                     | Bag 1 Carbon Monoxide                              |              |
| HC-NM+NOX      | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 |              | CO BAG 2                     | Bag 2 Carbon Monoxide                              |              |
| HC-NM+NOX-COMP | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        |              | CO BAG 3                     | Bag 3 Carbon Monoxide                              |              |
| CO-COMP        | SFTP Composite Carbon Monoxide                                  |              | CO BAG 4                     | Bag 4 Carbon Monoxide                              |              |
| ETHANOL        | C2H5OH - Ethanol                                                |              | NMOG BAG 1                   | Bag 1 Non-methane organic gases                    |              |
| FE BAG 1       | Bag 1 Fuel Economy                                              |              | NMOG BAG 2                   | Bag 2 Non-methane organic gases                    |              |
| FE BAG 2       | Bag 2 Fuel Economy                                              |              | NMOG BAG 3                   | Bag 3 Non-methane organic gases                    |              |
| FE BAG 3       | Bag 3 Fuel Economy                                              |              | NMOG BAG 4                   | Bag 4 Non-methane organic gases                    |              |
| FE BAG 4       | Bag 4 Fuel Economy                                              |              | ACT-DISTANCE BAG 1           | Bag 1 Actual Distance                              |              |
| MFR FE         | Manufacturer Fuel Economy                                       |              | ACT-DISTANCE BAG 2           | Bag 2 Actual Distance                              |              |
| HC             | Hydrocarbon for Running Loss and ORVR                           |              | ACT-DISTANCE BAG 3           | Bag 3 Actual Distance                              |              |
| METHANE        | CH4 - Methane                                                   |              | ACT-DISTANCE BAG 4           | Bag 4 Actual Distance                              |              |
| METHANOL       | CH3OH - Methanol                                                |              | HC-TOTAL BAG 1               | Bag 1 Total Hydrocarbon                            |              |
| N2O            | Nitrous Oxide                                                   |              | HC-TOTAL BAG 2               | Bag 2 Total Hydrocarbon                            |              |
| SPITBACK       | Spitback Hydrocarbon in grams                                   |              | HC-TOTAL BAG 3               | Bag 3 Total Hydrocarbon                            |              |
| AMP-HRS        | Integrated Amp-hours                                            |              | HC-TOTAL BAG 4               | Bag 4 Total Hydrocarbon                            |              |
| START-SOC      | System Start State of Charge Watt-hours                         |              | WATT-HRS BAG 1               | Bag 1 Watt Hours                                   |              |
| END-SOC        | System End State of Charge Watt-hours                           |              | WATT-HRS BAG 2               | Bag 2 Watt Hours                                   |              |

## Certification Summary Information Report

| Test Group                             |                                                            | VTYXT03.4B5C | Evaporative/Refueling Family |                                                 | VTYXR0265J62 |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|--------------|
| ACT-DISTANCE                           | Actual Distance Driven (miles)                             |              | WATT-HRS BAG 3               | Bag 3 Watt Hours                                |              |
| AS-VOLT                                | Average System Voltage                                     |              | WATT-HRS BAG 4               | Bag 4 Watt Hours                                |              |
| CO2 BAG 1                              | Bag 1 Carbon Dioxide                                       |              | WATT-HRS                     | Watt Hours                                      |              |
| CO2 BAG 2                              | Bag 2 Carbon Dioxide                                       |              | HC-NM BAG 1                  | Bag 1 Non-methane Hydrocarbon                   |              |
| CO2 BAG 3                              | Bag 3 Carbon Dioxide                                       |              | HC-NM BAG 2                  | Bag 2 Non-methane Hydrocarbon                   |              |
| CO2 BAG 4                              | Bag 4 Carbon Dioxide                                       |              | HC-NM BAG 3                  | Bag 3 Non-methane Hydrocarbon                   |              |
| NMOG+NOX                               | Non-methane organic gases plus Nitrogen Oxides             |              | HC-NM BAG 4                  | Bag 4 Non-methane Hydrocarbon                   |              |
| NMOG+NOX-COMP                          | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |              | N2O BAG 1                    | Bag 1 Nitrous Oxide                             |              |
| DT-IWRR                                | Drive Trace Inertia Work Ratio Rating                      |              | N2O BAG 2                    | Bag 2 Nitrous Oxide                             |              |
| DT-ASCR                                | Drive Trace Absolute Speed Change Rating                   |              | N2O BAG 3                    | Bag 3 Nitrous Oxide                             |              |
| DT-EER                                 | Drive Trace Energy Economy Rating                          |              | N2O BAG 4                    | Bag 4 Nitrous Oxide                             |              |
| <b>Certification Region</b>            |                                                            |              |                              |                                                 |              |
| CA                                     | California + CAA Section 177 states                        |              | FA                           | Federal                                         |              |
| <b>Exhaust Emission Standard Level</b> |                                                            |              |                              |                                                 |              |
| B1                                     | Federal Tier 2 Bin 1                                       |              | HDV2B340                     | Federal Tier 3 HD Class 2b Transitional Bin 340 |              |
| B2                                     | Federal Tier 2 Bin 2                                       |              | HDV2B250                     | Federal Tier 3 HD Class 2b Bin 250              |              |
| B3                                     | Federal Tier 2 Bin 3                                       |              | HDV2B200                     | Federal Tier 3 HD Class 2b Bin 200              |              |
| B4                                     | Federal Tier 2 Bin 4                                       |              | HDV2B170                     | Federal Tier 3 HD Class 2b Bin 170              |              |
| B5                                     | Federal Tier 2 Bin 5                                       |              | HDV2B150                     | Federal Tier 3 HD Class 2b Bin 150              |              |
| B6                                     | Federal Tier 2 Bin 6                                       |              | HDV2B0                       | Federal Tier 3 HD Class 2b Bin 0                |              |
| B7                                     | Federal Tier 2 Bin 7                                       |              | HDV3B630                     | Federal Tier 3 HD Class 3 Transitional Bin 630  |              |
| B8                                     | Federal Tier 2 Bin 8                                       |              | HDV3B570                     | Federal Tier 3 HD Class 3 Transitional Bin 570  |              |
| B9                                     | Federal Tier 2 Bin 9                                       |              | HDV3B400                     | Federal Tier 3 HD Class 3 Bin 400               |              |
| B10                                    | Federal Tier 2 Bin 10                                      |              | HDV3B270                     | Federal Tier 3 HD Class 3 Bin 270               |              |
| B11                                    | Federal Tier 2 Bin 11                                      |              | HDV3B230                     | Federal Tier 3 HD Class 3 Bin 230               |              |
| HDV1                                   | HDV1 (Federal HD chassis Class 2b GVW 8501-10000)          |              | HDV3B200                     | Federal Tier 3 HD Class 3 Bin 200               |              |
| HDV2                                   | HDV2 (Federal HD chassis Class 3 GVW 10001-14000)          |              | HDV3B0                       | Federal Tier 3 HD Class 3 Bin 0                 |              |
| L2                                     | California LEV-II LEV                                      |              | L4SULEV100                   | California LEV-IV SULEV100                      |              |
| L2OP                                   | California LEV-II LEV Optional                             |              | L4SULEV125                   | California LEV-IV SULEV125                      |              |
| U2                                     | California LEV-II ULEV                                     |              | L4SULEV15                    | California LEV-IV SULEV15                       |              |
| S2                                     | California LEV-II SULEV                                    |              | L4SULEV150                   | California LEV-IV SULEV150                      |              |
| ZEV                                    | California ZEV                                             |              | L4SULEV170                   | California LEV-IV SULEV170                      |              |
| OT                                     | Other                                                      |              | L4SULEV175                   | California LEV-IV SULEV175                      |              |
| T1                                     | Federal Tier 1                                             |              | L4SULEV20                    | California LEV-IV SULEV20                       |              |
| PZEV                                   | California PZEV                                            |              | L4SULEV200                   | California LEV-IV SULEV200                      |              |
| L2LEV160                               | California LEV-II LEV160                                   |              | L4SULEV230                   | California LEV-IV SULEV230                      |              |
| L2ULEV125                              | California LEV-II ULEV125                                  |              | L4SULEV25                    | California LEV-IV SULEV25                       |              |
| L2SULEV30                              | California LEV-II SULEV30                                  |              | L4SULEV30                    | California LEV-IV SULEV30                       |              |
| L2LEV395                               | California LEV-II LEV395                                   |              | L4SULEV75                    | California LEV-IV SULEV75                       |              |

## Certification Summary Information Report

| Test Group                    |                                                                   | VTYXT03.4B5C | Evaporative/Refueling Family                             |                            | VTYXR0265J62 |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|--------------|
| L2ULEV340                     | California LEV-II ULEV340                                         |              | L4SULEV85                                                | California LEV-IV SULEV85  |              |
| L2LEV630                      | California LEV-II LEV630                                          |              | L4ULEV125                                                | California LEV-IV ULEV125  |              |
| L2ULEV570                     | California LEV-II ULEV570                                         |              | L4ULEV200                                                | California LEV-IV ULEV200  |              |
| L3LEV160                      | California LEV-III LEV160                                         |              | L4ULEV250                                                | California LEV-IV ULEV250  |              |
| L3ULEV125                     | California LEV-III ULEV125                                        |              | L4ULEV270                                                | California LEV-IV ULEV270  |              |
| L3ULEV70                      | California LEV-III ULEV70                                         |              | L4ULEV40                                                 | California LEV-IV ULEV40   |              |
| L3ULEV50                      | California LEV-III ULEV50                                         |              | L4ULEV400                                                | California LEV-IV ULEV400  |              |
| L3SULEV30                     | California LEV-III SULEV30                                        |              | L4ULEV50                                                 | California LEV-IV ULEV50   |              |
| L3SULEV20                     | California LEV-III SULEV20                                        |              | L4ULEV60                                                 | California LEV-IV ULEV60   |              |
| L3LEV395                      | California LEV-III LEV395                                         |              | L4ULEV70                                                 | California LEV-IV ULEV70   |              |
| L3ULEV340                     | California LEV-III ULEV340                                        |              | T4B170                                                   | Federal Tier 4 MDV Bin 170 |              |
| L3ULEV250                     | California LEV-III ULEV250                                        |              | T4B150                                                   | Federal Tier 4 MDV Bin 150 |              |
| L3ULEV200                     | California LEV-III ULEV200                                        |              | T4B125                                                   | Federal Tier 4 MDV Bin 125 |              |
| L3SULEV170                    | California LEV-III SULEV170                                       |              | T4B100                                                   | Federal Tier 4 MDV Bin 100 |              |
| L3SULEV150                    | California LEV-III SULEV150                                       |              | T4B85                                                    | Federal Tier 4 MDV Bin 85  |              |
| L3LEV630                      | California LEV-III LEV630                                         |              | T4B75                                                    | Federal Tier 4 MDV Bin 75  |              |
| L3ULEV570                     | California LEV-III ULEV570                                        |              | T4B70                                                    | Federal Tier 4 Bin 70      |              |
| L3ULEV400                     | California LEV-III ULEV400                                        |              | T4B65                                                    | Federal Tier 4 Bin 65      |              |
| L3ULEV270                     | California LEV-III ULEV270                                        |              | T4B60                                                    | Federal Tier 4 Bin 60      |              |
| L3SULEV230                    | California LEV-III SULEV230                                       |              | T4B55                                                    | Federal Tier 4 Bin 55      |              |
| L3SULEV200                    | California LEV-III SULEV200                                       |              | T4B50                                                    | Federal Tier 4 Bin 50      |              |
| T3B160                        | Federal Tier 3 Bin 160                                            |              | T4B45                                                    | Federal Tier 4 Bin 45      |              |
| T3B125                        | Federal Tier 3 Bin 125                                            |              | T4B40                                                    | Federal Tier 4 Bin 40      |              |
| T3B110                        | Federal Tier 3 Transitional Bin 110                               |              | T4B35                                                    | Federal Tier 4 Bin 35      |              |
| T3B85                         | Federal Tier 3 Transitional Bin 85                                |              | T4B30                                                    | Federal Tier 4 Bin 30      |              |
| T3SULEV30                     | Federal Tier 3 Transitional LEV-II SULEV30 Carryover              |              | T4B25                                                    | Federal Tier 4 Bin 25      |              |
| T3B70                         | Federal Tier 3 Bin 70                                             |              | T4B20                                                    | Federal Tier 4 Bin 20      |              |
| T3B50                         | Federal Tier 3 Bin 50                                             |              | T4B15                                                    | Federal Tier 4 Bin 15      |              |
| T3B30                         | Federal Tier 3 Bin 30                                             |              | T4B10                                                    | Federal Tier 4 Bin 10      |              |
| T3B20                         | Federal Tier 3 Bin 20                                             |              | T4B5                                                     | Federal Tier 4 Bin 5       |              |
| T3B0                          | Federal Tier 3 Bin 0                                              |              | T4B0                                                     | Federal Tier 4 Bin 0       |              |
| HDV2B395                      | Federal Tier 3 HD Class 2b Transitional Bin 395                   |              |                                                          |                            |              |
| <b>Transmission Type Code</b> |                                                                   |              |                                                          |                            |              |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M            | Manual                                                   |                            |              |
| A                             | Automatic                                                         | OT           | Other                                                    |                            |              |
| AM                            | Automated Manual                                                  | SA           | Semi-Automatic                                           |                            |              |
| CVT                           | Continuously Variable                                             | SCV          | Selectable Continuously Variable (e.g. CVT with paddles) |                            |              |
| <b>Drive System Code</b>      |                                                                   |              |                                                          |                            |              |
| 4                             | 4-Wheel Drive                                                     | P            | Part-time 4-Wheel Drive                                  |                            |              |

Certification Summary Information Report

| Test Group                    |                                 | VTYXT03.4B5C | Evaporative/Refueling Family |                                  | VTYXR0265J62 |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|--------------|
| 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                     |              |

**Certification Summary Information Report**

|                                   |                          |                                     |                        |
|-----------------------------------|--------------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Toyota Motor Corporation | <b>Manufacturer Code</b>            | TYX                    |
| <b>Test Group</b>                 | VTYXT03.4B5C             | <b>Evaporative/Refueling Family</b> | VTYXR0325J62           |
| <b>Certificate Number</b>         | --                       | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | --                       | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | --                       | <b>Conditional Certificate</b>      | --                     |
| <b>CSI Revision #</b>             | --                       | <b>CSI Submission/Revision Date</b> | 08/17/2026 07:44:26 PM |
| <b>Model Year</b>                 | 2027                     |                                     |                        |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VTYXT03.4B5C | <b>Evaporative/Refueling Family</b> | VTYXR0325J62 |
|-------------------|--------------|-------------------------------------|--------------|

  
**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:** Combustion Engine

| Fuel     | Basic Fuel Metering System               | Lean Burn Strategy Indicator |
|----------|------------------------------------------|------------------------------|
| Gasoline | Spark Ignition direct & ported injection | No                           |

  

**Drive Source #2:** Electric Motor

| Fuel        | Basic Fuel Metering System | Lean Burn Strategy Indicator |
|-------------|----------------------------|------------------------------|
| Electricity | --                         | No                           |

  

|                                                     |                        |                                                            |              |
|-----------------------------------------------------|------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | Yes                    |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                     | <b>Rechargeable Energy Storage System Indicator</b>        | Yes          |
| <b>Multiple Fuel Combustion</b>                     | --                     | <b>Off-board Charge Capable Indicator</b>                  | No           |
| <b>Fuel Cell Indicator</b>                          | No                     | <b>EPA Vehicle Class</b>                                   | LDT4         |
| <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>                        | VTYXHHGNNB21           | <b>Durability Group Equivalency Factor</b>                 | 1.4          |
| <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>              | 10/01/2026             | <b>CAP2000 Conditional Certificate?</b>                    | N/A          |
| <b>Independent Commercial Importer?</b>             | --                     | <b>Alternative Fuel Converter Certificate?</b>             | --           |
| <b>SFTP Federal Composite Compliance Identifier</b> | Tier 3                 | <b>SFTP Tier 2 Composite CO Option</b>                     | No           |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | Yes                    |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                   | <b>OBD Demonstration Vehicle Test Group</b>                | VTYXT03.4B5A |
| <b>Test Group OBD Compliance Level</b>              | Full - no deficiencies | <b>Number of Test Group OBD Deficiencies</b>               | 0            |
| <b>OBD Deficiencies Comments</b>                    | --                     |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | --                     |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                     |                                                            |              |

## Certification Summary Information Report

|                                                                             |                          |                                                           |                                     |                         |                     |                     |                       |
|-----------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------|-------------------------------------|-------------------------|---------------------|---------------------|-----------------------|
| <b>Test Group</b>                                                           | VTYXT03.4B5C             | <b>Evaporative/Refueling Family</b>                       | VTYXR0325J62                        |                         |                     |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |                          |                                                           |                                     |                         |                     |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | New                      | <b>Submission/Correction Date</b>                         | 07/07/2026 02:03:24 AM              |                         |                     |                     |                       |
| <b>Integrated ORVR?</b>                                                     | No                       | <b>Fuel(s)</b>                                            | Electricity, Gasoline               |                         |                     |                     |                       |
| <b>Multiple Fuel Storage</b>                                                | Fuels Stored Together    |                                                           |                                     |                         |                     |                     |                       |
| <b>Bladder Fuel Tank?</b>                                                   | No                       |                                                           |                                     |                         |                     |                     |                       |
| <b>Fuel Tank Material</b>                                                   | Plastic                  | <b>Fuel Tank Material Description</b>                     | EVOH                                |                         |                     |                     |                       |
| <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> | 325                      | <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>                            | --                       |                                                           |                                     |                         |                     |                     |                       |
| <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> |
| Toyota Motor Corporation                                                    | 1 - TOYOTA               | 155 - TUNDRA 4WD                                          | California + CAA Section 177 states | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| Toyota Motor Corporation                                                    | 1 - TOYOTA               | 157 - TUNDRA 4WD PRO                                      | California + CAA Section 177 states | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| Toyota Motor Corporation                                                    | 1 - TOYOTA               | 157 - TUNDRA 4WD PRO                                      | Federal                             | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| Toyota Motor Corporation                                                    | 1 - TOYOTA               | 155 - TUNDRA 4WD                                          | Federal                             | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| <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>                       | 0W-20                               |                         |                     |                     |                       |
| <b>Number of Cylinders/Rotors</b>                                           | 6                        | <b>Mechanically Variable Compression Ratio Indicator</b>  | N                                   |                         |                     |                     |                       |

## Certification Summary Information Report

|                                                  |                               |                                                         |                           |
|--------------------------------------------------|-------------------------------|---------------------------------------------------------|---------------------------|
| <b>Test Group</b>                                | VTYXT03.4B5C                  | <b>Evaporative/Refueling Family</b>                     | VTYXR0325J62              |
| <b>After Treatment Device(s) (ATD)</b>           |                               |                                                         |                           |
| <b>ATD Number</b>                                | <b>ATD Type</b>               | <b>ATD Precious Metal</b>                               | <b>Substrate Material</b> |
| 1                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 2                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 3                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 4                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Direct Ozone Reduction (DOR) Device</b>       |                               |                                                         |                           |
| Not Equipped                                     |                               |                                                         |                           |
| <b>Mfr Emission Control Device Comments</b>      |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Engine Configuration Number 1</b>             |                               |                                                         |                           |
| <b>Engine Displacement (liters)</b>              | 3.4                           | <b>Engine Rated Horsepower</b>                          | 389                       |
| <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>                           | Liquid                    |
| <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>  | Intake and exhaust            |                                                         |                           |
| <b>Variable Valve Lift?</b>                      | No                            |                                                         |                           |
| <b>Variable Valve Lift System Description</b>    | --                            |                                                         |                           |
| <b>Number of Knock Sensors</b>                   | 2                             | <b>Number of Air/Fuel Sensors</b>                       | 4                         |
| <b>Air/Fuel Sensor # 1 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 1 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 2 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 2 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 3 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 3 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 4 Type</b>                  | Heated air fuel               | <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>                 | No                        |
| <b>EGR Type</b>                                  | --                            | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --                        |
| <b>Closed Loop Air Injection System</b>          | No                            |                                                         |                           |
| <b>Air Injection Type</b>                        | Not Applicable                | <b>Air Injection Type if 'Other'</b>                    | --                        |
| <b>Mfr Engine Configuration Comments</b>         | APPLIED TO SEQUOIA AND TUNDRA |                                                         |                           |

## Certification Summary Information Report

| Test Group                               | VTYXT03.4B5C                                           | Evaporative/Refueling Family                     | VTYXR0325J62 |
|------------------------------------------|--------------------------------------------------------|--------------------------------------------------|--------------|
| <b>Engine Configuration Number 2</b>     |                                                        |                                                  |              |
| Engine Displacement (liters)             | 3.4                                                    | Engine Rated Horsepower                          | 418          |
| 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                           | Liquid       |
| Air Aspiration Drive Method(s)           | Mechanical                                             |                                                  |              |
| Cylinder Deactivation                    | No                                                     |                                                  |              |
| Cylinder Deactivation Description        | --                                                     |                                                  |              |
| Variable Valve Timing                    | Yes                                                    |                                                  |              |
| Variable Valve Timing System Description | Intake and exhaust                                     |                                                  |              |
| Variable Valve Lift?                     | No                                                     |                                                  |              |
| Variable Valve Lift System Description   | --                                                     |                                                  |              |
| Number of Knock Sensors                  | 2                                                      | Number of Air/Fuel Sensors                       | 4            |
| Air/Fuel Sensor # 1 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 1 Description                  | --           |
| Air/Fuel Sensor # 2 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 2 Description                  | --           |
| Air/Fuel Sensor # 3 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 3 Description                  | --           |
| Air/Fuel Sensor # 4 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 4 Description                  | --           |
| Mfr Air/Fuel Sensor Comments             | --                                                     |                                                  |              |
| Exhaust Gas Recirculation                | No                                                     | Cooled Exhaust Gas Recirculation                 | No           |
| EGR Type                                 | --                                                     | Exhaust Gas Recirculation Description if 'Other' | --           |
| Closed Loop Air Injection System         | No                                                     |                                                  |              |
| Air Injection Type                       | Not Applicable                                         | Air Injection Type if 'Other'                    | --           |
| Mfr Engine Configuration Comments        | APPLIED TO SEQUOIA AND TUNDRA TRD PERFORMANCE PACKAGE. |                                                  |              |

## Certification Summary Information Report

|                                                 |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
|-------------------------------------------------|---------------------|---------------------------------------------------------|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | VTYXT03.4B5C        | <b>Evaporative/Refueling Family</b>                     | VTYXR0325J62 |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 3</b>            |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 3.4                 | <b>Engine Rated Horsepower</b>                          | 409          |                |                |                              |                                  |                                 |                                     |                              |
| <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>                           | Liquid       |                |                |                              |                                  |                                 |                                     |                              |
| <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> | Intake and exhaust  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | No                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | --                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 2                   | <b>Number of Air/Fuel Sensors</b>                       | 4            |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 1 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 1 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 2 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 2 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 3 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 3 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 4 Type</b>                 | Heated air fuel     | <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>                 | No           |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | --                  | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Closed Loop Air Injection System</b>         | No                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Injection Type</b>                       | Not Applicable      | <b>Air Injection Type if 'Other'</b>                    | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Engine Configuration Comments</b>        | APPLIED TO LX 700h. |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Official Test Numbers</b>                    |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group 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                                        | NTYX10072540        | NTYX10072539                                            | NTYX10072575 | NTYX10072537   | NTYX10072550   | 999.9                        | 228.2                            | 999.9                           | 286.1                               | --                           |
| Electricity                                     | NTYX10072540        | NTYX10072539                                            | NTYX10072575 | NTYX10072537   | NTYX10072550   | --                           | --                               | --                              | --                                  | --                           |
| <b>SFTP LEV-III Official Test Numbers</b>       |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group Fuel</b>                          | <b>FTP</b>          | <b>US06</b>                                             | <b>SC03</b>  |                |                |                              |                                  |                                 |                                     |                              |
| Gasoline                                        | NTYX10072540        | NTYX10072539                                            | NTYX10072575 |                |                |                              |                                  |                                 |                                     |                              |
| Electricity                                     | NTYX10072540        | NTYX10072539                                            | NTYX10072575 |                |                |                              |                                  |                                 |                                     |                              |

## Certification Summary Information Report

| Test Group                                        | VTYXT03.4B5C           | Evaporative/Refueling Family                | VTYXR0325J62 |
|---------------------------------------------------|------------------------|---------------------------------------------|--------------|
| Hybrid Electric Vehicle And Fuel Cell Information |                        |                                             |              |
| Rechargable Energy Storage System                 | Battery(s)             | Rechargable Energy Storage System, if Other | --           |
| Battery Type                                      | NiMH                   | Number of Battery Packs                     | 1            |
| Total Voltage of Battery Packs                    | 288                    | Battery Energy Capacity                     | 6.5          |
| Battery Specific Energy                           | 33                     | Battery Charger Type                        | On-Board     |
| Number of Capacitors                              | --                     | Capacitor Rating (In Farads)                | --           |
| Mfr Capacitor Comments                            | --                     |                                             |              |
| Hydraulic System Description                      | --                     |                                             |              |
| Regenerative Braking Type                         | Electrical Regen Brake |                                             |              |
| Regenerative Braking Source                       | Both                   | Driver Controlled Regenerative Braking      | No           |
| Mfr Regenerative Braking Description              | --                     |                                             |              |
| Drive Motor(s)/Generator(s)                       | 1                      |                                             |              |
| Motor/Generator Type 1                            | AC SYNCHRONOUS         | Rated Motor/Generator Power                 | 36           |
| Mfr Fuel Cell Description                         | --                     |                                             |              |
| Fuel Cell On-Board H2 Storage Capacity (kg)       | --                     | Usable H2 Fill Capacity (kg)                | --           |
| Mfr Hybrid Electric/ Electric Vehicle Comments    | --                     |                                             |              |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VTYXT03.4B5C | <b>Evaporative/Refueling Family</b> | VTYXR0325J62 |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |              |                                                  |              |
|-----------------------------------------|--------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | 22-VK2H / 0  | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | NTYXT03.4M53 | <b>Original Evaporative/Refueling Family</b>     | NTYXR0325J92 |
| <b>Original Test Vehicle Model Year</b> | 2022         |                                                  |              |

**Vehicle Model**

|                                      |        |                                       |                |
|--------------------------------------|--------|---------------------------------------|----------------|
| <b>Represented Test Vehicle Make</b> | TOYOTA | <b>Represented Test Vehicle Model</b> | TUNDRA 4WD PRO |
|--------------------------------------|--------|---------------------------------------|----------------|

  
**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> | No                                                                                              |                                                       |                     |
| <b>Odometer Correction -- Initial</b>     | 25                                                                                              | <b>Odometer Correction Factor</b>                     | 1                   |
| <b>Odometer Correction Sign</b>           | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor |                                                       |                     |
| <b>Odometer Correction Units</b>          | Miles                                                                                           |                                                       |                     |
| <b>Engine Code</b>                        | 01                                                                                              | <b>Rated Horsepower</b>                               | 389                 |
| <b>Displacement (liters)</b>              | 3.445                                                                                           |                                                       |                     |
| <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>             | Liquid                                                                                          | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 4,000 (mi)          |
| <b>Curb Weight (lbs)</b>                  | 6105                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 6500                |
| <b>GVWR (lbs)</b>                         | 7615                                                                                            | <b>N/V Ratio</b>                                      | 21.6                |
| <b>Axle Ratio</b>                         | 3.31                                                                                            |                                                       |                     |
| <b>Transmission Type</b>                  | Automatic                                                                                       | <b># of Transmission Gears</b>                        | 10                  |
| <b>Transmission Lockup</b>                | Yes                                                                                             | <b>Creeper Gear</b>                                   | No                  |

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## Certification Summary Information Report

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                               | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                                       |
| <b>Test #</b>                                  | NTYX10072553                               | <b>Test Procedure</b>                 | <b>34 - Federal fuel 3-day evap</b>                |
| <b>Exhaust Test # for this Evap Test</b>       | NTYX10072535                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/27/2021                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2H1-04                                     | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3904                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.3137                | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

**Manufacturer Test Comments** HSL=0.0724, 1ST DBL=0.2414, 2ND DBL=0.2003, 3RD DBL=0.1942, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0055GRAM)

| 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 | 0.3137         | 0.0000 | 0.314               | 0.500    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.3137         | 0.0000 | 0.314               | 0.500    | Pass      |

## Certification Summary Information Report

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                               | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                                       |
| <b>Test #</b>                                  | NTYX10072574                               | <b>Test Procedure</b>                 | 23 - 2-day evap                                    |
| <b>Exhaust Test # for this Evap Test</b>       | NTYX10072533                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/23/2021                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                     | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3865                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.2309                | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

**Manufacturer Test Comments** HSL=0.0450, 1ST DBL=0.1859, 2ND DBL=0.1484, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0055GRAM)

| 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 | 0.2309         | 0.0000 | 0.231               | 0.500    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.2309         | 0.0000 | 0.231               | 0.500    | Pass      |

## Certification Summary Information Report

| Test Group                                     | VTYXT03.4B5C                               | Evaporative/Refueling Family          | VTYXR0325J62                                       |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>NTYX10072551</b>                        | <b>Test Procedure</b>                 | <b>32 - Federal Fuel Running Loss</b>              |
| <b>Exhaust Test # for this Evap Test</b>       | NTYX10072535                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/27/2021                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2H1-04                                     | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3904                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| CO BAG 1 (Bag 1 Carbon Monoxide)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CH4 BAG 1 (Bag 1 Methane)                                 | 0                     | --                                                       |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)              | 0                     | --                                                       |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| CO BAG 2 (Bag 2 Carbon Monoxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CH4 BAG 2 (Bag 2 Methane)                                 | 0                     | --                                                       |
| NMOG BAG 2 (Bag 2 Non-methane organic gases)              | 0                     | --                                                       |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| CO BAG 3 (Bag 3 Carbon Monoxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| CH4 BAG 3 (Bag 3 Methane)                                 | 0                     | --                                                       |
| NMOG BAG 3 (Bag 3 Non-methane organic gases)              | 0                     | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0000334             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

Certification Summary Information Report

|                            |               |                                        |                |                              |        |                       |          |           |
|----------------------------|---------------|----------------------------------------|----------------|------------------------------|--------|-----------------------|----------|-----------|
| Test Group                 |               | VTYXT03.4B5C                           |                | Evaporative/Refueling Family |        | VTYXR0325J62          |          |           |
|                            |               | Test Result Name                       |                | Unrounded Test Result        |        | Verify Calculated CO2 |          |           |
|                            |               | Carbon dioxide                         |                | 0                            |        | --                    |          |           |
| Manufacturer Test Comments |               | --                                     |                |                              |        |                       |          |           |
| Certification Region       | Useful Life   | Standard Level                         | Emission Name  | Rounded Result               | Add DF | Certification Level   | Standard | Pass/Fail |
| Fed                        | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.000                        | 0.000  | 0.00                  | 0.05     | Pass      |
| CA                         | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.000                        | 0.000  | 0.00                  | 0.01     | Pass      |

## Certification Summary Information Report

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                               | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                                       |
| <b>Test #</b>                                  | NTYX10072554                               | <b>Test Procedure</b>                 | <b>24 - Federal fuel refueling test (ORVR)</b>     |
| <b>Exhaust Test # for this Evap Test</b>       | NTYX10072533                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/23/2021                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                     | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3865                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0042                | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

Manufacturer Test Comments --

| 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 | 0.004          | 0.000  | 0.00                | 0.20     | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.004          | 0.000  | 0.00                | 0.20     | Pass      |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VTYXT03.4B5C | <b>Evaporative/Refueling Family</b> | VTYXR0325J62 |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |              |                                                  |              |
|-----------------------------------------|--------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | 22-VK3H / 0  | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | NTYXT03.4M53 | <b>Original Evaporative/Refueling Family</b>     | NTYXR0325J92 |
| <b>Original Test Vehicle Model Year</b> | 2022         |                                                  |              |

**Vehicle Model**

|                                      |        |                                       |                |
|--------------------------------------|--------|---------------------------------------|----------------|
| <b>Represented Test Vehicle Make</b> | TOYOTA | <b>Represented Test Vehicle Model</b> | TUNDRA 4WD PRO |
|--------------------------------------|--------|---------------------------------------|----------------|

  
**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> | No                                                                                              |                                                       |                     |
| <b>Odometer Correction -- Initial</b>     | 11                                                                                              | <b>Odometer Correction Factor</b>                     | 1                   |
| <b>Odometer Correction Sign</b>           | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor |                                                       |                     |
| <b>Odometer Correction Units</b>          | Miles                                                                                           |                                                       |                     |
| <b>Engine Code</b>                        | 01                                                                                              | <b>Rated Horsepower</b>                               | 389                 |
| <b>Displacement (liters)</b>              | 3.445                                                                                           |                                                       |                     |
| <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>             | Liquid                                                                                          | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 4,000 (mi)          |
| <b>Curb Weight (lbs)</b>                  | 6105                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 6500                |
| <b>GVWR (lbs)</b>                         | 7615                                                                                            | <b>N/V Ratio</b>                                      | 21.6                |
| <b>Axle Ratio</b>                         | 3.31                                                                                            |                                                       |                     |
| <b>Transmission Type</b>                  | Automatic                                                                                       | <b># of Transmission Gears</b>                        | 10                  |
| <b>Transmission Lockup</b>                | Yes                                                                                             | <b>Creeper Gear</b>                                   | No                  |

Certification Summary Information Report

|                                    |         |                       |                |                  |                              |                |                                                                                  |  |
|------------------------------------|---------|-----------------------|----------------|------------------|------------------------------|----------------|----------------------------------------------------------------------------------|--|
| Test Group                         |         | VTYXT03.4B5C          |                |                  | Evaporative/Refueling Family |                | VTYXR0325J62                                                                     |  |
| Dynamometer Coefficients:          |         |                       |                |                  |                              |                |                                                                                  |  |
| Target Coefficients                |         |                       |                | Set Coefficients |                              |                | EPA Calculated Total Road Load Horse Power for<br>City/Highway/Evap Coefficients |  |
| Coefficient<br>Category            | A (lbf) | B (lbf/mph)           | C (lbf/mph**2) | A (lbf)          | B (lbf/mph)                  | C (lbf/mph**2) |                                                                                  |  |
| City/Highway/Evap                  | 52.888  | 0.36819               | 0.038109       | 32.705           | -0.16677                     | 0.040326       | 22.2                                                                             |  |
| Cold CO                            | 58.176  | 0.405                 | 0.04192        | 35.234           | -0.36467                     | 0.045181       | N/A                                                                              |  |
| US06                               | 52.888  | 0.36819               | 0.038109       | 32.705           | -0.16677                     | 0.040326       | N/A                                                                              |  |
| Emission Control Device Comments   |         | --                    |                |                  |                              |                |                                                                                  |  |
| Manufacturer Test Vehicle Comments |         | Drive mode is SPORT+. |                |                  |                              |                |                                                                                  |  |

## Certification Summary Information Report

|                                                |                                                                              |                                       |                                            |
|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                               |
| <b>Test #</b>                                  | NTYX10072537                                                                 | <b>Test Procedure</b>                 | <b>11 - Cold CO</b>                        |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 28 - Cold CO E10 Regular Gasoline (Tier 3) |
| <b>Test Date</b>                               | 10/08/2021                                                                   | <b>Fuel</b>                           | Gasoline                                   |
| <b>Fuel Batch ID</b>                           | 2F1-13                                                                       | <b>Fuel Calibration Number</b>        | 1                                          |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                            |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                            |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                            |
| <b>Test Start Odometer Reading</b>             | 5528                                                                         | <b>Odometer Units</b>                 | M                                          |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 4 (Bag 4 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 4 (Bag 4 Fuel Economy)                      | 0                     | 0                                                        |
| METHANE (CH4 - Methane)                            | 0.0222013             | --                                                       |
| CO (Carbon Monoxide)                               | 0.8982357             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.5                   | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.08                  | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.8                   | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0080948             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0037981             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.1565507             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.1772236             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

Certification Summary Information Report

|                            |               |                          |               |                       |     |                              |                          |        |         |                     |          |           |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0325J62        |          |           |
|                            |               | Test Result Name         |               | Unrounded Test Result |     |                              | Verify Calculated CO2    |        |         |                     |          |           |
|                            |               | Carbon dioxide           |               | 0                     |     |                              | --                       |        |         |                     |          |           |
| Manufacturer Test Comments |               | --                       |               |                       |     |                              |                          |        |         |                     |          |           |
| 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            | 0.90                  | --  | --                           | --                       | 0.01   | --      | 0.9                 | 12.5     | Pass      |
| Fed                        | 120,000 miles | Federal Tier 3 Bin 70    | HC-NM         | 0.16                  | --  | --                           | --                       | 0.01   | --      | 0.2                 | 0.5      | Pass      |
| CA                         | 50,000 miles  | California LEV-IV ULEV70 | CO            | 0.90                  | --  | --                           | --                       | 0.01   | --      | 0.9                 | 12.5     | Pass      |

## Certification Summary Information Report

|                                                |                                                                              |                                       |                                                     |
|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                                        |
| <b>Test #</b>                                  | NTYX10072540                                                                 | <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>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                            |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                   |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 5468                                                                         | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 4 (Bag 4 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 4 (Bag 4 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0052304             | --                                                       |
| CO (Carbon Monoxide)                               | 0.1361656             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.09                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.17                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.09                 | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0062076             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0018381             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0094042             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0103559             | --                                                       |
| PM (Particulate Matter)                            | 0.0013716             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0139602             | --                                                       |

## Certification Summary Information Report

| Test Group                 |               | VTYXT03.4B5C                     |               |                       | Evaporative/Refueling Family |                                 |                          |        | VTYXR0325J62 |                     |          |           |
|----------------------------|---------------|----------------------------------|---------------|-----------------------|------------------------------|---------------------------------|--------------------------|--------|--------------|---------------------|----------|-----------|
|                            |               | Test Result Name                 |               | Unrounded Test Result |                              | Verify Calculated CREE/OPT-CREE |                          |        |              |                     |          |           |
|                            |               | Carbon-Related Exhaust Emissions |               | 0                     |                              | 999                             |                          |        |              |                     |          |           |
|                            |               | Test Result Name                 |               | Unrounded Test Result |                              | Verify Calculated CO2           |                          |        |              |                     |          |           |
|                            |               | Carbon dioxide                   |               | 0                     |                              | --                              |                          |        |              |                     |          |           |
| Manufacturer Test Comments |               | NMOG = HC-NM x 1.1012            |               |                       |                              |                                 |                          |        |              |                     |          |           |
| 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            | 0.14                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 1.7      | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70            | CO-COMP       | 0.25                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 4.2      | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70            | CREE          | 999                   | --                           | --                              | --                       | 0.041  | --           | 999                 | --       | --        |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70            | NMOG          | 0.0104                | 1                            | 1.10                            | --                       | 0.0087 | --           | 0.019               | 999.999  | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70            | NMOG+NOX      | 0.0166                | 1                            | 1.10                            | --                       | --     | --           | 0.030               | 0.070    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70            | NMOG+NOX-COMP | 0.0455                | 1                            | 1.03                            | --                       | 0.0138 | --           | 0.046               | 0.060    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70            | NOX           | 0.0062                | --                           | --                              | --                       | 0.0051 | --           | 0.011               | 999.999  | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 70            | PM            | 0.0014                | --                           | --                              | --                       | 0.0000 | --           | 0.001               | 0.003    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70         | CO            | 0.14                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 1.7      | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70         | METHANE       | 0.0052                | --                           | --                              | --                       | 0.0033 | --           | 0.008               | 0.030    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70         | N2O           | 0.0018                | --                           | --                              | --                       | 0.0029 | --           | 0.005               | 0.010    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70         | NMOG          | 0.0104                | 1                            | 1.10                            | --                       | 0.0087 | --           | 0.019               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70         | NMOG+NOX      | 0.0166                | 1                            | 1.10                            | --                       | --     | --           | 0.030               | 0.070    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70         | NOX           | 0.0062                | --                           | --                              | --                       | 0.0051 | --           | 0.011               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70         | PM            | 0.0014                | --                           | --                              | --                       | 0.0000 | --           | 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>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                                       |
| <b>Test #</b>                                  | NTYX10072550                                                                 | <b>Test Procedure</b>                 | <b>3 - HWFE</b>                                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5483                                                                         | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0007015             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0113892             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.47                  | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.17                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.36                  | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0017984             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0001354             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                       |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0004336             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | 999                             |

## Certification Summary Information Report

| Test Group                                                                                                              |               | VTYXT03.4B5C             |               |                       | Evaporative/Refueling Family |                  |                          |        | VTYXR0325J62 |                     |          |           |
|-------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|---------------|-----------------------|------------------------------|------------------|--------------------------|--------|--------------|---------------------|----------|-----------|
|                                                                                                                         |               | Test Result Name         |               | Unrounded Test Result |                              |                  | Verify Calculated CO2    |        |              |                     |          |           |
|                                                                                                                         |               | Carbon dioxide           |               | 0                     |                              |                  | --                       |        |              |                     |          |           |
| Manufacturer Test Comments                                                                                              |               | NMOG = HC-NM x 1.03      |               |                       |                              |                  |                          |        |              |                     |          |           |
| 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                   | --                           | --               | --                       | 0.041  | --           | 999                 | --       | --        |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NMOG          | 0.0000                | 1                            | 1.03             | --                       | 0.0087 | --           | 0.009               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NMOG+NOX      | 0.0018                | 1                            | 1.03             | --                       | --     | --           | 0.016               | 0.070    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NOX           | 0.0018                | --                           | --               | --                       | 0.0051 | --           | 0.007               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0000                | 1                            | 1.03             | --                       | 0.0087 | --           | 0.009               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0018                | 1                            | 1.03             | --                       | --     | --           | 0.016               | 0.070    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0018                | --                           | --               | --                       | 0.0051 | --           | 0.007               | 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>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                                       |
| <b>Test #</b>                                  | NTYX10072539                                                                 | <b>Test Procedure</b>                 | <b>90 - US06</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5504                                                                         | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0046876             | --                                                       |
| CO (Carbon Monoxide)                               | 0.5395289             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.02                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.35                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.26                  | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0432136             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0038321             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.025101              | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.025854              | --                                                       |
| PM (Particulate Matter)                            | 0.0021434             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0294789             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

## Certification Summary Information Report

| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0325J62        |          |           |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name         |               | Unrounded Test Result |     | Verify Calculated CO2        |                          |        |         |                     |          |           |
|                            |               | Carbon dioxide           |               | 0                     |     | --                           |                          |        |         |                     |          |           |
| Manufacturer Test Comments |               | NMOG = HC-NM x 1.03      |               |                       |     |                              |                          |        |         |                     |          |           |
| 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    | PM            | 0.0021                | --  | --                           | --                       | 0.0000 | --      | 0.002               | 0.006    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.54                  | --  | --                           | --                       | 0.03   | --      | 0.6                 | 9.6      | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0259                | --  | 1.03                         | --                       | 0.0087 | --      | 0.035               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0691                | --  | 1.03                         | --                       | --     | --      | 0.083               | 0.084    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0432                | --  | --                           | --                       | 0.0051 | --      | 0.048               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | PM            | 0.0021                | --  | --                           | --                       | 0.0000 | --      | 0.002               | 0.006    | Pass      |

## Certification Summary Information Report

|                                                |                                           |                                       |                                                    |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                              | <b>Evaporative/Refueling Family</b>   | VTYXR0325J62                                       |
| <b>Test #</b>                                  | NTYX10072575                              | <b>Test Procedure</b>                 | 95 - SC03                                          |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/12/2021                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                    | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000)          | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                  |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5543                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                        | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0046633             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0518175             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.22                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.1                  | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.18                 | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0166562             | --                                                       |
| N2O (Nitrous Oxide)                                | 0                     | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0009788             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0010082             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0055242             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

## Certification Summary Information Report

| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0325J62        |          |           |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name         |               | Unrounded Test Result |     |                              | Verify Calculated CO2    |        |         |                     |          |           |
|                            |               | Carbon dioxide           |               | 0                     |     |                              | --                       |        |         |                     |          |           |
| Manufacturer Test Comments |               | NMOG = HC-NM x 1.03      |               |                       |     |                              |                          |        |         |                     |          |           |
| 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                         | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.05                  | --  | --                           | --                       | 0.03   | --      | 0.1                 | 1.7      | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0010                | 1   | 1.03                         | --                       | 0.0087 | --      | 0.010               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0177                | 1   | 1.03                         | --                       | --     | --      | 0.032               | 0.070    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0167                | --  | --                           | --                       | 0.0051 | --      | 0.022               | 999.999  | Pass      |

## Certification Summary Information Report

| Test Group                                                                | VTYXT03.4B5C                                       | Evaporative/Refueling Family                                              | VTYXR0325J62 |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>2F1A01</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>2</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2021   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/01/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/31/2021   |
| <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>                                              | 0.74         |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.8                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17837        |
| <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> | 0.826                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>2F1-13</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 28 - Cold CO E10 Regular Gasoline (Tier 3)         | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2020   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/08/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/31/2021   |
| <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>                                              | 0.737        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 10                                                 | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17799        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.825                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>2H1-04</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 08/25/2021   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/27/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/31/2021   |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.741        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.9                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17804        |
| <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>                                                | --           |

## Certification Summary Information Report

|                                |               |                                            |     |             |                                 |                                   |         |                                         |         |
|--------------------------------|---------------|--------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|-----------------------------------------|---------|
| Test Group                     |               | VTYXT03.4B5C                               |     |             | Evaporative/Refueling Family    |                                   |         | VTYXR0325J62                            |         |
| Consolidated List of Standards |               |                                            |     |             |                                 |                                   |         |                                         |         |
| Exhaust Standards              |               |                                            |     |             |                                 |                                   |         |                                         |         |
| Cert Region                    |               | California + CAA Section 177 states        |     |             | Cert/In-Use Code                |                                   |         | Cert                                    |         |
| Vehicle Class                  |               | LDT2 (LVW 3751-5750, GVW 0-6000)           |     |             | 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            | --                                         | --  | --          | --                              | --                                | --      | 0.03                                    | 1.7     |
| 150,000 miles                  | NMOG          | --                                         | 1   | 1.03        | --                              | --                                | --      | 0.0087                                  | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | 1   | 1.03        | --                              | --                                | --      | 0.0138                                  | 0.070   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --      | 0.0051                                  | 999.999 |
|                                |               |                                            |     |             |                                 |                                   |         |                                         |         |
| Cert Region                    |               | Federal                                    |     |             | Cert/In-Use Code                |                                   |         | Cert                                    |         |
| Vehicle Class                  |               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 70                   |         |
| Fuel                           |               | Gasoline                                   |     |             | Test Procedure                  |                                   |         | 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     |
| 150,000 miles                  | CO            | --                                         | --  | --          | --                              | --                                | --      | 0.03                                    | 1.7     |
| 150,000 miles                  | CO-COMP       | --                                         | --  | --          | --                              | --                                | --      | 0.03                                    | 4.2     |
| 150,000 miles                  | CREE          | --                                         | --  | --          | --                              | --                                | --      | 0.041                                   | 999.999 |
| 150,000 miles                  | HCHO          | --                                         | --  | --          | --                              | --                                | --      | --                                      | 0.004   |
| 150,000 miles                  | NMOG          | --                                         | 1   | 1.10        | --                              | --                                | --      | 0.0087                                  | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | 1   | 1.10        | --                              | --                                | --      | 0.0138                                  | 0.070   |
| 150,000 miles                  | NMOG+NOX-COMP | --                                         | 1   | 1.03        | --                              | --                                | --      | 0.0138                                  | 0.060   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --      | 0.0051                                  | 999.999 |
| 150,000 miles                  | PM            | --                                         | --  | --          | --                              | --                                | --      | 0.0000                                  | 0.003   |
|                                |               |                                            |     |             |                                 |                                   |         |                                         |         |

## Certification Summary Information Report

|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                        |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0325J62                            |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV ULEV70                |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | CA fuel 50 Deg(F) exhaust test          |            |
| <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                   | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 1.7        |
| 4,000 miles          | HCHO                 | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 0.016      |
| 4,000 miles          | NMOG                 | --                                  | 1          | 1.10               | --                                     | --                                       | --             | --                                      | 999.999    |
| 4,000 miles          | NMOG+NOX             | --                                  | 1          | 1.10               | --                                     | --                                       | 1              | --                                      | 0.140      |
| 4,000 miles          | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 999.999    |
|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.03                                    | 1.7        |
| 150,000 miles        | HCHO                 | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |
| 150,000 miles        | METHANE              | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0033                                  | 0.030      |
| 150,000 miles        | N2O                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0029                                  | 0.010      |
| 150,000 miles        | NMOG                 | --                                  | 1          | 1.10               | --                                     | --                                       | --             | 0.0087                                  | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | 1          | 1.10               | --                                     | --                                       | --             | 0.0138                                  | 0.070      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                                  | 999.999    |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0000                                  | 0.003      |
|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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          | 1.03               | --                                     | --                                       | --             | 0.0087                                  | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | 1          | 1.03               | --                                     | --                                       | --             | 0.0138                                  | 0.070      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                                  | 999.999    |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0325J62          |            |
| <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                 | --                                         | --         | --                 | --                                     | --                                       | --             | 0.041                 | 999.999    |
| 150,000 miles        | NMOG                 | --                                         | 1          | 1.03               | --                                     | --                                       | --             | 0.0087                | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | 1          | 1.03               | --                                     | --                                       | --             | 0.0138                | 0.070      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | 0.0051                | 999.999    |

|                      |                      |                                     |            |                    |                                        |                                          |                |                          |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.03                     | 9.6        |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.03               | --                                     | --                                       | --             | 0.0087                   | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | 1.03               | --                                     | --                                       | --             | 0.0138                   | 0.084      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                   | 999.999    |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0000                   | 0.006      |

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <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        | PM                   | --                                         | --         | --                 | --                                     | --                                       | --             | 0.0000                | 0.006      |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0325J62          |            |
| <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                   | --                                         | --         | --                 | --                                     | --                                       | --             | 0.01                  | 12.5       |
| 120,000 miles        | HC-NM                | --                                         | --         | --                 | --                                     | --                                       | --             | 0.01                  | 0.5        |

|                      |                      |                                     |            |                    |                                        |                                          |                |                          |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.01                     | 12.5       |

## Evaporative/Refueling Standards

|                              |               |                           |                |                |        |                     |  |
|------------------------------|---------------|---------------------------|----------------|----------------|--------|---------------------|--|
| Evaporative/Refueling Family |               | VTYXR0325J62              |                | Cert Region    |        | Federal             |  |
| Cert/In-Use Code             |               | Cert                      |                | Standard Level |        | Federal Tier 3 Evap |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                |        |                     |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std            | Add DF |                     |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.05           | 0.000  |                     |  |

|                              |               |                         |                |                |        |                                        |  |
|------------------------------|---------------|-------------------------|----------------|----------------|--------|----------------------------------------|--|
| Evaporative/Refueling Family |               | VTYXR0325J62            |                | Cert Region    |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                    |                | Standard Level |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel 3-day evap |                |                |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name           | Rounded Result | Std            | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV          | --             | 0.500          | 0.0000 |                                        |  |

|                              |               |                                    |                |                |      |                     |  |
|------------------------------|---------------|------------------------------------|----------------|----------------|------|---------------------|--|
| Evaporative/Refueling Family |               | VTYXR0325J62                       |                | Cert Region    |      | Federal             |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level |      | Federal Tier 3 Evap |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                |      |                     |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result |                | Std  | Add DF              |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             |                | 0.20 | 0.000               |  |

## Certification Summary Information Report

|                              |               |                                    |                |                              |        |                                        |  |
|------------------------------|---------------|------------------------------------|----------------|------------------------------|--------|----------------------------------------|--|
| Test Group                   |               | VTYXT03.4B5C                       |                | Evaporative/Refueling Family |        | VTYXR0325J62                           |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0325J62                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | 2-day evap                         |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0.0000 |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0325J62                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | 2-day evap                         |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0.0000 |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0325J62                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal Fuel Running Loss          |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.01                         | 0.000  |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0325J62                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Federal fuel 3-day evap            |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0.0000 |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VTYXR0325J62                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.20                         | 0.000  |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |

Certification Summary Information Report

|                              |  |              |  |                              |  |                     |  |
|------------------------------|--|--------------|--|------------------------------|--|---------------------|--|
| Test Group                   |  | VTYXT03.4B5C |  | Evaporative/Refueling Family |  | VTYXR0325J62        |  |
| Evaporative/Refueling Family |  | VTYXR0325J62 |  | Cert Region                  |  | Federal             |  |
| Cert/In-Use Code             |  | Cert         |  | Standard Level               |  | Federal Tier 3 Evap |  |
| Test Procedure               |  | Spitback     |  |                              |  |                     |  |
| Fuel                         |  | Useful Life  |  | Emission Name                |  | Rounded Result      |  |
| Std                          |  | Add DF       |  |                              |  |                     |  |
| Gasoline                     |  | 4,000 miles  |  | SPITBACK                     |  | --                  |  |
| 1.0                          |  |              |  |                              |  | --                  |  |

## Certification Summary Information Report

| Test Group     |                                                                 | VTYXT03.4B5C | Evaporative/Refueling Family |                                                    | VTYXR0325J62 |
|----------------|-----------------------------------------------------------------|--------------|------------------------------|----------------------------------------------------|--------------|
| Glossary       |                                                                 |              |                              |                                                    |              |
| Useful Life    |                                                                 |              |                              |                                                    |              |
| 4              | 4,000 miles                                                     |              | 120                          | 120,000 miles                                      |              |
| 50             | 50,000 miles                                                    |              | 150                          | 150,000 miles                                      |              |
| 100            | 100,000 miles                                                   |              |                              |                                                    |              |
| Emission Name  |                                                                 |              |                              |                                                    |              |
| HC-TOTAL       | Total Hydrocarbon                                               |              | COMB-CREE                    | Combined Carbon-Related Exhaust Emissions          |              |
| CO             | Carbon Monoxide                                                 |              | COMB-OPT-CREE                | Combined Optional Carbon-Related Exhaust Emissions |              |
| CO2            | Carbon dioxide                                                  |              | HC-TOTAL-EQUIV               | Total Hydrocarbon equivalent - Evap only           |              |
| CREE           | Carbon-Related Exhaust Emissions                                |              | METHANE-COMB                 | Combined CH4 for HD 2b/3 vehicles only             |              |
| OPT-CREE       | Optional Carbon-Related Exhaust Emissions                       |              | N2O-COMB                     | Combined Nitrous Oxide for HD 2b/3 vehicles only   |              |
| NOX            | Nitrogen Oxide                                                  |              | LEAK-DIA                     | Effective Leak Diameter (inches)                   |              |
| PM             | Particulate Matter                                              |              | LEAK-GAS CAP                 | Gas Cap Leakage (cc/min)                           |              |
| PM-COMP        | SFTP Composite Particulate Matter                               |              | CO2-COMB                     | Combined Carbon Dioxide for HD 2b/3 Vehicles Only  |              |
| HC-NM          | Non-methane Hydrocarbon                                         |              | KW-HRS                       | Integrated DC KW-HRS                               |              |
| OMHCE          | Organic material Hydrocarbon Equivalent                         |              | CH4 BAG 1                    | Bag 1 Methane                                      |              |
| OMNMHCE        | Organic material non-methane HC equivalent                      |              | CH4 BAG 2                    | Bag 2 Methane                                      |              |
| NMOG           | Non-methane organic gases                                       |              | CH4 BAG 3                    | Bag 3 Methane                                      |              |
| HCHO           | Formaldehyde                                                    |              | CH4 BAG 4                    | Bag 4 Methane                                      |              |
| H3C2HO         | Acetaldehyde                                                    |              | CO BAG 1                     | Bag 1 Carbon Monoxide                              |              |
| HC-NM+NOX      | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 |              | CO BAG 2                     | Bag 2 Carbon Monoxide                              |              |
| HC-NM+NOX-COMP | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        |              | CO BAG 3                     | Bag 3 Carbon Monoxide                              |              |
| CO-COMP        | SFTP Composite Carbon Monoxide                                  |              | CO BAG 4                     | Bag 4 Carbon Monoxide                              |              |
| ETHANOL        | C2H5OH - Ethanol                                                |              | NMOG BAG 1                   | Bag 1 Non-methane organic gases                    |              |
| FE BAG 1       | Bag 1 Fuel Economy                                              |              | NMOG BAG 2                   | Bag 2 Non-methane organic gases                    |              |
| FE BAG 2       | Bag 2 Fuel Economy                                              |              | NMOG BAG 3                   | Bag 3 Non-methane organic gases                    |              |
| FE BAG 3       | Bag 3 Fuel Economy                                              |              | NMOG BAG 4                   | Bag 4 Non-methane organic gases                    |              |
| FE BAG 4       | Bag 4 Fuel Economy                                              |              | ACT-DISTANCE BAG 1           | Bag 1 Actual Distance                              |              |
| MFR FE         | Manufacturer Fuel Economy                                       |              | ACT-DISTANCE BAG 2           | Bag 2 Actual Distance                              |              |
| HC             | Hydrocarbon for Running Loss and ORVR                           |              | ACT-DISTANCE BAG 3           | Bag 3 Actual Distance                              |              |
| METHANE        | CH4 - Methane                                                   |              | ACT-DISTANCE BAG 4           | Bag 4 Actual Distance                              |              |
| METHANOL       | CH3OH - Methanol                                                |              | HC-TOTAL BAG 1               | Bag 1 Total Hydrocarbon                            |              |
| N2O            | Nitrous Oxide                                                   |              | HC-TOTAL BAG 2               | Bag 2 Total Hydrocarbon                            |              |
| SPITBACK       | Spitback Hydrocarbon in grams                                   |              | HC-TOTAL BAG 3               | Bag 3 Total Hydrocarbon                            |              |
| AMP-HRS        | Integrated Amp-hours                                            |              | HC-TOTAL BAG 4               | Bag 4 Total Hydrocarbon                            |              |
| START-SOC      | System Start State of Charge Watt-hours                         |              | WATT-HRS BAG 1               | Bag 1 Watt Hours                                   |              |
| END-SOC        | System End State of Charge Watt-hours                           |              | WATT-HRS BAG 2               | Bag 2 Watt Hours                                   |              |

## Certification Summary Information Report

| Test Group                             |                                                            | VTYXT03.4B5C | Evaporative/Refueling Family |                                                 | VTYXR0325J62 |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|--------------|
| ACT-DISTANCE                           | Actual Distance Driven (miles)                             |              | WATT-HRS BAG 3               | Bag 3 Watt Hours                                |              |
| AS-VOLT                                | Average System Voltage                                     |              | WATT-HRS BAG 4               | Bag 4 Watt Hours                                |              |
| CO2 BAG 1                              | Bag 1 Carbon Dioxide                                       |              | WATT-HRS                     | Watt Hours                                      |              |
| CO2 BAG 2                              | Bag 2 Carbon Dioxide                                       |              | HC-NM BAG 1                  | Bag 1 Non-methane Hydrocarbon                   |              |
| CO2 BAG 3                              | Bag 3 Carbon Dioxide                                       |              | HC-NM BAG 2                  | Bag 2 Non-methane Hydrocarbon                   |              |
| CO2 BAG 4                              | Bag 4 Carbon Dioxide                                       |              | HC-NM BAG 3                  | Bag 3 Non-methane Hydrocarbon                   |              |
| NMOG+NOX                               | Non-methane organic gases plus Nitrogen Oxides             |              | HC-NM BAG 4                  | Bag 4 Non-methane Hydrocarbon                   |              |
| NMOG+NOX-COMP                          | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |              | N2O BAG 1                    | Bag 1 Nitrous Oxide                             |              |
| DT-IWRR                                | Drive Trace Inertia Work Ratio Rating                      |              | N2O BAG 2                    | Bag 2 Nitrous Oxide                             |              |
| DT-ASCR                                | Drive Trace Absolute Speed Change Rating                   |              | N2O BAG 3                    | Bag 3 Nitrous Oxide                             |              |
| DT-EER                                 | Drive Trace Energy Economy Rating                          |              | N2O BAG 4                    | Bag 4 Nitrous Oxide                             |              |
| <b>Certification Region</b>            |                                                            |              |                              |                                                 |              |
| CA                                     | California + CAA Section 177 states                        |              | FA                           | Federal                                         |              |
| <b>Exhaust Emission Standard Level</b> |                                                            |              |                              |                                                 |              |
| B1                                     | Federal Tier 2 Bin 1                                       |              | HDV2B340                     | Federal Tier 3 HD Class 2b Transitional Bin 340 |              |
| B2                                     | Federal Tier 2 Bin 2                                       |              | HDV2B250                     | Federal Tier 3 HD Class 2b Bin 250              |              |
| B3                                     | Federal Tier 2 Bin 3                                       |              | HDV2B200                     | Federal Tier 3 HD Class 2b Bin 200              |              |
| B4                                     | Federal Tier 2 Bin 4                                       |              | HDV2B170                     | Federal Tier 3 HD Class 2b Bin 170              |              |
| B5                                     | Federal Tier 2 Bin 5                                       |              | HDV2B150                     | Federal Tier 3 HD Class 2b Bin 150              |              |
| B6                                     | Federal Tier 2 Bin 6                                       |              | HDV2B0                       | Federal Tier 3 HD Class 2b Bin 0                |              |
| B7                                     | Federal Tier 2 Bin 7                                       |              | HDV3B630                     | Federal Tier 3 HD Class 3 Transitional Bin 630  |              |
| B8                                     | Federal Tier 2 Bin 8                                       |              | HDV3B570                     | Federal Tier 3 HD Class 3 Transitional Bin 570  |              |
| B9                                     | Federal Tier 2 Bin 9                                       |              | HDV3B400                     | Federal Tier 3 HD Class 3 Bin 400               |              |
| B10                                    | Federal Tier 2 Bin 10                                      |              | HDV3B270                     | Federal Tier 3 HD Class 3 Bin 270               |              |
| B11                                    | Federal Tier 2 Bin 11                                      |              | HDV3B230                     | Federal Tier 3 HD Class 3 Bin 230               |              |
| HDV1                                   | HDV1 (Federal HD chassis Class 2b GVW 8501-10000)          |              | HDV3B200                     | Federal Tier 3 HD Class 3 Bin 200               |              |
| HDV2                                   | HDV2 (Federal HD chassis Class 3 GVW 10001-14000)          |              | HDV3B0                       | Federal Tier 3 HD Class 3 Bin 0                 |              |
| L2                                     | California LEV-II LEV                                      |              | L4SULEV100                   | California LEV-IV SULEV100                      |              |
| L2OP                                   | California LEV-II LEV Optional                             |              | L4SULEV125                   | California LEV-IV SULEV125                      |              |
| U2                                     | California LEV-II ULEV                                     |              | L4SULEV15                    | California LEV-IV SULEV15                       |              |
| S2                                     | California LEV-II SULEV                                    |              | L4SULEV150                   | California LEV-IV SULEV150                      |              |
| ZEV                                    | California ZEV                                             |              | L4SULEV170                   | California LEV-IV SULEV170                      |              |
| OT                                     | Other                                                      |              | L4SULEV175                   | California LEV-IV SULEV175                      |              |
| T1                                     | Federal Tier 1                                             |              | L4SULEV20                    | California LEV-IV SULEV20                       |              |
| PZEV                                   | California PZEV                                            |              | L4SULEV200                   | California LEV-IV SULEV200                      |              |
| L2LEV160                               | California LEV-II LEV160                                   |              | L4SULEV230                   | California LEV-IV SULEV230                      |              |
| L2ULEV125                              | California LEV-II ULEV125                                  |              | L4SULEV25                    | California LEV-IV SULEV25                       |              |
| L2SULEV30                              | California LEV-II SULEV30                                  |              | L4SULEV30                    | California LEV-IV SULEV30                       |              |
| L2LEV395                               | California LEV-II LEV395                                   |              | L4SULEV75                    | California LEV-IV SULEV75                       |              |

## Certification Summary Information Report

| Test Group                    |                                                                   | VTYXT03.4B5C | Evaporative/Refueling Family                             |                            | VTYXR0325J62 |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|--------------|
| L2ULEV340                     | California LEV-II ULEV340                                         |              | L4SULEV85                                                | California LEV-IV SULEV85  |              |
| L2LEV630                      | California LEV-II LEV630                                          |              | L4ULEV125                                                | California LEV-IV ULEV125  |              |
| L2ULEV570                     | California LEV-II ULEV570                                         |              | L4ULEV200                                                | California LEV-IV ULEV200  |              |
| L3LEV160                      | California LEV-III LEV160                                         |              | L4ULEV250                                                | California LEV-IV ULEV250  |              |
| L3ULEV125                     | California LEV-III ULEV125                                        |              | L4ULEV270                                                | California LEV-IV ULEV270  |              |
| L3ULEV70                      | California LEV-III ULEV70                                         |              | L4ULEV40                                                 | California LEV-IV ULEV40   |              |
| L3ULEV50                      | California LEV-III ULEV50                                         |              | L4ULEV400                                                | California LEV-IV ULEV400  |              |
| L3SULEV30                     | California LEV-III SULEV30                                        |              | L4ULEV50                                                 | California LEV-IV ULEV50   |              |
| L3SULEV20                     | California LEV-III SULEV20                                        |              | L4ULEV60                                                 | California LEV-IV ULEV60   |              |
| L3LEV395                      | California LEV-III LEV395                                         |              | L4ULEV70                                                 | California LEV-IV ULEV70   |              |
| L3ULEV340                     | California LEV-III ULEV340                                        |              | T4B170                                                   | Federal Tier 4 MDV Bin 170 |              |
| L3ULEV250                     | California LEV-III ULEV250                                        |              | T4B150                                                   | Federal Tier 4 MDV Bin 150 |              |
| L3ULEV200                     | California LEV-III ULEV200                                        |              | T4B125                                                   | Federal Tier 4 MDV Bin 125 |              |
| L3SULEV170                    | California LEV-III SULEV170                                       |              | T4B100                                                   | Federal Tier 4 MDV Bin 100 |              |
| L3SULEV150                    | California LEV-III SULEV150                                       |              | T4B85                                                    | Federal Tier 4 MDV Bin 85  |              |
| L3LEV630                      | California LEV-III LEV630                                         |              | T4B75                                                    | Federal Tier 4 MDV Bin 75  |              |
| L3ULEV570                     | California LEV-III ULEV570                                        |              | T4B70                                                    | Federal Tier 4 Bin 70      |              |
| L3ULEV400                     | California LEV-III ULEV400                                        |              | T4B65                                                    | Federal Tier 4 Bin 65      |              |
| L3ULEV270                     | California LEV-III ULEV270                                        |              | T4B60                                                    | Federal Tier 4 Bin 60      |              |
| L3SULEV230                    | California LEV-III SULEV230                                       |              | T4B55                                                    | Federal Tier 4 Bin 55      |              |
| L3SULEV200                    | California LEV-III SULEV200                                       |              | T4B50                                                    | Federal Tier 4 Bin 50      |              |
| T3B160                        | Federal Tier 3 Bin 160                                            |              | T4B45                                                    | Federal Tier 4 Bin 45      |              |
| T3B125                        | Federal Tier 3 Bin 125                                            |              | T4B40                                                    | Federal Tier 4 Bin 40      |              |
| T3B110                        | Federal Tier 3 Transitional Bin 110                               |              | T4B35                                                    | Federal Tier 4 Bin 35      |              |
| T3B85                         | Federal Tier 3 Transitional Bin 85                                |              | T4B30                                                    | Federal Tier 4 Bin 30      |              |
| T3SULEV30                     | Federal Tier 3 Transitional LEV-II SULEV30 Carryover              |              | T4B25                                                    | Federal Tier 4 Bin 25      |              |
| T3B70                         | Federal Tier 3 Bin 70                                             |              | T4B20                                                    | Federal Tier 4 Bin 20      |              |
| T3B50                         | Federal Tier 3 Bin 50                                             |              | T4B15                                                    | Federal Tier 4 Bin 15      |              |
| T3B30                         | Federal Tier 3 Bin 30                                             |              | T4B10                                                    | Federal Tier 4 Bin 10      |              |
| T3B20                         | Federal Tier 3 Bin 20                                             |              | T4B5                                                     | Federal Tier 4 Bin 5       |              |
| T3B0                          | Federal Tier 3 Bin 0                                              |              | T4B0                                                     | Federal Tier 4 Bin 0       |              |
| HDV2B395                      | Federal Tier 3 HD Class 2b Transitional Bin 395                   |              |                                                          |                            |              |
| <b>Transmission Type Code</b> |                                                                   |              |                                                          |                            |              |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M            | Manual                                                   |                            |              |
| A                             | Automatic                                                         | OT           | Other                                                    |                            |              |
| AM                            | Automated Manual                                                  | SA           | Semi-Automatic                                           |                            |              |
| CVT                           | Continuously Variable                                             | SCV          | Selectable Continuously Variable (e.g. CVT with paddles) |                            |              |
| <b>Drive System Code</b>      |                                                                   |              |                                                          |                            |              |
| 4                             | 4-Wheel Drive                                                     | P            | Part-time 4-Wheel Drive                                  |                            |              |

Certification Summary Information Report

| Test Group                    |                                 | VTYXT03.4B5C | Evaporative/Refueling Family |                                  | VTYXR0325J62 |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|--------------|
| 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                     |              |

**Certification Summary Information Report**

|                                   |                          |                                     |                        |
|-----------------------------------|--------------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Toyota Motor Corporation | <b>Manufacturer Code</b>            | TYX                    |
| <b>Test Group</b>                 | VTYXT03.4B5C             | <b>Evaporative/Refueling Family</b> | VTYXR0170J62           |
| <b>Certificate Number</b>         | --                       | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | --                       | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | --                       | <b>Conditional Certificate</b>      | --                     |
| <b>CSI Revision #</b>             | --                       | <b>CSI Submission/Revision Date</b> | 08/17/2026 07:44:26 PM |
| <b>Model Year</b>                 | 2027                     |                                     |                        |

## Certification Summary Information Report

| <b>Test Group</b>                                   | VTYXT03.4B5C                                                                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                        | VTYXR0170J62               |                              |             |                                          |    |  |  |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------|------------------------------|-------------|------------------------------------------|----|--|--|
| <b>Test Group Information</b>                       |                                                                                                                                                                                                                         |                                                            |                            |                              |             |                                          |    |  |  |
| <b>CSI Type</b>                                     | Update for Correction                                                                                                                                                                                                   | <b>Running Change Reference Number</b>                     | --                         |                              |             |                                          |    |  |  |
| <b>GHG Exempt Status</b>                            | Not Exempt                                                                                                                                                                                                              |                                                            |                            |                              |             |                                          |    |  |  |
| <b>Drive Sources and Fuel(s)</b>                    |                                                                                                                                                                                                                         |                                                            |                            |                              |             |                                          |    |  |  |
| <b>Drive Source #1:</b>                             | Combustion Engine                                                                                                                                                                                                       |                                                            |                            |                              |             |                                          |    |  |  |
|                                                     | <table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Gasoline</td><td>Spark Ignition direct &amp; ported injection</td><td>No</td></tr> </table> | Fuel                                                       | Basic Fuel Metering System | Lean Burn Strategy Indicator | Gasoline    | Spark Ignition direct & ported injection | No |  |  |
| Fuel                                                | Basic Fuel Metering System                                                                                                                                                                                              | Lean Burn Strategy Indicator                               |                            |                              |             |                                          |    |  |  |
| Gasoline                                            | Spark Ignition direct & ported injection                                                                                                                                                                                | No                                                         |                            |                              |             |                                          |    |  |  |
| <b>Drive Source #2:</b>                             | Electric Motor                                                                                                                                                                                                          |                                                            |                            |                              |             |                                          |    |  |  |
|                                                     | <table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Electricity</td><td>--</td><td>No</td></tr> </table>                                        | Fuel                                                       | Basic Fuel Metering System | Lean Burn Strategy Indicator | Electricity | --                                       | No |  |  |
| Fuel                                                | Basic Fuel Metering System                                                                                                                                                                                              | Lean Burn Strategy Indicator                               |                            |                              |             |                                          |    |  |  |
| Electricity                                         | --                                                                                                                                                                                                                      | No                                                         |                            |                              |             |                                          |    |  |  |
| <b>Hybrid Indicator</b>                             | Yes                                                                                                                                                                                                                     |                                                            |                            |                              |             |                                          |    |  |  |
| <b>Multiple Fuel Storage</b>                        | --                                                                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>        | Yes                        |                              |             |                                          |    |  |  |
| <b>Multiple Fuel Combustion</b>                     | --                                                                                                                                                                                                                      | <b>Off-board Charge Capable Indicator</b>                  | No                         |                              |             |                                          |    |  |  |
| <b>Fuel Cell Indicator</b>                          | No                                                                                                                                                                                                                      | <b>EPA Vehicle Class</b>                                   | LDT4                       |                              |             |                                          |    |  |  |
| <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>                        | VTYXHHGNNB21                                                                                                                                                                                                            | <b>Durability Group Equivalency Factor</b>                 | 1.4                        |                              |             |                                          |    |  |  |
| <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>              | 10/01/2026                                                                                                                                                                                                              | <b>CAP2000 Conditional Certificate?</b>                    | N/A                        |                              |             |                                          |    |  |  |
| <b>Independent Commercial Importer?</b>             | --                                                                                                                                                                                                                      | <b>Alternative Fuel Converter Certificate?</b>             | --                         |                              |             |                                          |    |  |  |
| <b>SFTP Federal Composite Compliance Identifier</b> | Tier 3                                                                                                                                                                                                                  | <b>SFTP Tier 2 Composite CO Option</b>                     | No                         |                              |             |                                          |    |  |  |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | Yes                                                                                                                                                                                                                     |                                                            |                            |                              |             |                                          |    |  |  |
| <b>OBD Compliance Type</b>                          | CARB                                                                                                                                                                                                                    | <b>OBD Demonstration Vehicle Test Group</b>                | VTYXT03.4B5A               |                              |             |                                          |    |  |  |
| <b>Test Group OBD Compliance Level</b>              | Full - no deficiencies                                                                                                                                                                                                  | <b>Number of Test Group OBD Deficiencies</b>               | 0                          |                              |             |                                          |    |  |  |
| <b>OBD Deficiencies Comments</b>                    | --                                                                                                                                                                                                                      |                                                            |                            |                              |             |                                          |    |  |  |
| <b>Mfr Test Group Comments</b>                      | --                                                                                                                                                                                                                      |                                                            |                            |                              |             |                                          |    |  |  |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                                                                                                                                                                                                                      |                                                            |                            |                              |             |                                          |    |  |  |

## Certification Summary Information Report

|                                                                             |                          |                                                           |                                     |                     |                     |                     |                       |
|-----------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------|-------------------------------------|---------------------|---------------------|---------------------|-----------------------|
| <b>Test Group</b>                                                           | VTYXT03.4B5C             | <b>Evaporative/Refueling Family</b>                       | VTYXR0170J62                        |                     |                     |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |                          |                                                           |                                     |                     |                     |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | New                      | <b>Submission/Correction Date</b>                         | 01/06/2026 01:20:14 AM              |                     |                     |                     |                       |
| <b>Integrated ORVR?</b>                                                     | No                       | <b>Fuel(s)</b>                                            | Gasoline, Electricity               |                     |                     |                     |                       |
| <b>Multiple Fuel Storage</b>                                                | Fuels Stored Together    |                                                           |                                     |                     |                     |                     |                       |
| <b>Bladder Fuel Tank?</b>                                                   | No                       |                                                           |                                     |                     |                     |                     |                       |
| <b>Fuel Tank Material</b>                                                   | Plastic                  | <b>Fuel Tank Material Description</b>                     | EVOH                                |                     |                     |                     |                       |
| <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> | 170                      | <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>                            | --                       |                                                           |                                     |                     |                     |                     |                       |
| <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> |
| Toyota Motor Corporation                                                    | 2 - LEXUS                | 109 - LX 700h                                             | Federal                             | All Wheel Drive     | Semi-Automatic      | 10                  | Yes                   |
| Toyota Motor Corporation                                                    | 2 - LEXUS                | 109 - LX 700h                                             | California + CAA Section 177 states | All Wheel Drive     | Semi-Automatic      | 10                  | Yes                   |
| <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>                       | 0W-20                               |                     |                     |                     |                       |
| <b>Number of Cylinders/Rotors</b>                                           | 6                        | <b>Mechanically Variable Compression Ratio Indicator</b>  | N                                   |                     |                     |                     |                       |

## Certification Summary Information Report

|                                                  |                               |                                                         |                           |
|--------------------------------------------------|-------------------------------|---------------------------------------------------------|---------------------------|
| <b>Test Group</b>                                | VTYXT03.4B5C                  | <b>Evaporative/Refueling Family</b>                     | VTYXR0170J62              |
| <b>After Treatment Device(s) (ATD)</b>           |                               |                                                         |                           |
| <b>ATD Number</b>                                | <b>ATD Type</b>               | <b>ATD Precious Metal</b>                               | <b>Substrate Material</b> |
| 1                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 2                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 3                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 4                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Direct Ozone Reduction (DOR) Device</b>       |                               |                                                         |                           |
| Not Equipped                                     |                               |                                                         |                           |
| <b>Mfr Emission Control Device Comments</b>      |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Engine Configuration Number 1</b>             |                               |                                                         |                           |
| <b>Engine Displacement (liters)</b>              | 3.4                           | <b>Engine Rated Horsepower</b>                          | 389                       |
| <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>                           | Liquid                    |
| <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>  | Intake and exhaust            |                                                         |                           |
| <b>Variable Valve Lift?</b>                      | No                            |                                                         |                           |
| <b>Variable Valve Lift System Description</b>    | --                            |                                                         |                           |
| <b>Number of Knock Sensors</b>                   | 2                             | <b>Number of Air/Fuel Sensors</b>                       | 4                         |
| <b>Air/Fuel Sensor # 1 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 1 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 2 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 2 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 3 Type</b>                  | Heated air fuel               | <b>Air/Fuel Sensor # 3 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 4 Type</b>                  | Heated air fuel               | <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>                 | No                        |
| <b>EGR Type</b>                                  | --                            | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --                        |
| <b>Closed Loop Air Injection System</b>          | No                            |                                                         |                           |
| <b>Air Injection Type</b>                        | Not Applicable                | <b>Air Injection Type if 'Other'</b>                    | --                        |
| <b>Mfr Engine Configuration Comments</b>         | APPLIED TO SEQUOIA AND TUNDRA |                                                         |                           |

## Certification Summary Information Report

| Test Group                               | VTYXT03.4B5C                                           | Evaporative/Refueling Family                     | VTYXR0170J62 |
|------------------------------------------|--------------------------------------------------------|--------------------------------------------------|--------------|
| <b>Engine Configuration Number 2</b>     |                                                        |                                                  |              |
| Engine Displacement (liters)             | 3.4                                                    | Engine Rated Horsepower                          | 418          |
| 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                           | Liquid       |
| Air Aspiration Drive Method(s)           | Mechanical                                             |                                                  |              |
| Cylinder Deactivation                    | No                                                     |                                                  |              |
| Cylinder Deactivation Description        | --                                                     |                                                  |              |
| Variable Valve Timing                    | Yes                                                    |                                                  |              |
| Variable Valve Timing System Description | Intake and exhaust                                     |                                                  |              |
| Variable Valve Lift?                     | No                                                     |                                                  |              |
| Variable Valve Lift System Description   | --                                                     |                                                  |              |
| Number of Knock Sensors                  | 2                                                      | Number of Air/Fuel Sensors                       | 4            |
| Air/Fuel Sensor # 1 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 1 Description                  | --           |
| Air/Fuel Sensor # 2 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 2 Description                  | --           |
| Air/Fuel Sensor # 3 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 3 Description                  | --           |
| Air/Fuel Sensor # 4 Type                 | Heated air fuel                                        | Air/Fuel Sensor # 4 Description                  | --           |
| Mfr Air/Fuel Sensor Comments             | --                                                     |                                                  |              |
| Exhaust Gas Recirculation                | No                                                     | Cooled Exhaust Gas Recirculation                 | No           |
| EGR Type                                 | --                                                     | Exhaust Gas Recirculation Description if 'Other' | --           |
| Closed Loop Air Injection System         | No                                                     |                                                  |              |
| Air Injection Type                       | Not Applicable                                         | Air Injection Type if 'Other'                    | --           |
| Mfr Engine Configuration Comments        | APPLIED TO SEQUOIA AND TUNDRA TRD PERFORMANCE PACKAGE. |                                                  |              |

## Certification Summary Information Report

|                                                 |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
|-------------------------------------------------|---------------------|---------------------------------------------------------|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | VTYXT03.4B5C        | <b>Evaporative/Refueling Family</b>                     | VTYXR0170J62 |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 3</b>            |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 3.4                 | <b>Engine Rated Horsepower</b>                          | 409          |                |                |                              |                                  |                                 |                                     |                              |
| <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>                           | Liquid       |                |                |                              |                                  |                                 |                                     |                              |
| <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> | Intake and exhaust  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | No                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | --                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 2                   | <b>Number of Air/Fuel Sensors</b>                       | 4            |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 1 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 1 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 2 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 2 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 3 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 3 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 4 Type</b>                 | Heated air fuel     | <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>                 | No           |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | --                  | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Closed Loop Air Injection System</b>         | No                  |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Injection Type</b>                       | Not Applicable      | <b>Air Injection Type if 'Other'</b>                    | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Engine Configuration Comments</b>        | APPLIED TO LX 700h. |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Official Test Numbers</b>                    |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group 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                                        | NTYX10072540        | NTYX10072539                                            | NTYX10072575 | NTYX10072537   | NTYX10072550   | 999.9                        | 228.2                            | 999.9                           | 286.1                               | --                           |
| Electricity                                     | NTYX10072540        | NTYX10072539                                            | NTYX10072575 | NTYX10072537   | NTYX10072550   | --                           | --                               | --                              | --                                  | --                           |
| <b>SFTP LEV-III Official Test Numbers</b>       |                     |                                                         |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group Fuel</b>                          | <b>FTP</b>          | <b>US06</b>                                             | <b>SC03</b>  |                |                |                              |                                  |                                 |                                     |                              |
| Gasoline                                        | NTYX10072540        | NTYX10072539                                            | NTYX10072575 |                |                |                              |                                  |                                 |                                     |                              |
| Electricity                                     | NTYX10072540        | NTYX10072539                                            | NTYX10072575 |                |                |                              |                                  |                                 |                                     |                              |

## Certification Summary Information Report

| Test Group                                        | VTYXT03.4B5C           | Evaporative/Refueling Family                | VTYXR0170J62 |
|---------------------------------------------------|------------------------|---------------------------------------------|--------------|
| Hybrid Electric Vehicle And Fuel Cell Information |                        |                                             |              |
| Rechargable Energy Storage System                 | Battery(s)             | Rechargable Energy Storage System, if Other | --           |
| Battery Type                                      | NiMH                   | Number of Battery Packs                     | 1            |
| Total Voltage of Battery Packs                    | 288                    | Battery Energy Capacity                     | 6.5          |
| Battery Specific Energy                           | 33                     | Battery Charger Type                        | On-Board     |
| Number of Capacitors                              | --                     | Capacitor Rating (In Farads)                | --           |
| Mfr Capacitor Comments                            | --                     |                                             |              |
| Hydraulic System Description                      | --                     |                                             |              |
| Regenerative Braking Type                         | Electrical Regen Brake |                                             |              |
| Regenerative Braking Source                       | Both                   | Driver Controlled Regenerative Braking      | No           |
| Mfr Regenerative Braking Description              | --                     |                                             |              |
| Drive Motor(s)/Generator(s)                       | 1                      |                                             |              |
| Motor/Generator Type 1                            | AC SYNCHRONOUS         | Rated Motor/Generator Power                 | 36           |
| Mfr Fuel Cell Description                         | --                     |                                             |              |
| Fuel Cell On-Board H2 Storage Capacity (kg)       | --                     | Usable H2 Fill Capacity (kg)                | --           |
| Mfr Hybrid Electric/ Electric Vehicle Comments    | --                     |                                             |              |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VTYXT03.4B5C | <b>Evaporative/Refueling Family</b> | VTYXR0170J62 |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |              |                                                  |              |
|-----------------------------------------|--------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | 22-VK3H / 0  | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | NTYXT03.4M53 | <b>Original Evaporative/Refueling Family</b>     | NTYXR0325J92 |
| <b>Original Test Vehicle Model Year</b> | 2022         |                                                  |              |

**Vehicle Model**

|                                      |        |                                       |                |
|--------------------------------------|--------|---------------------------------------|----------------|
| <b>Represented Test Vehicle Make</b> | TOYOTA | <b>Represented Test Vehicle Model</b> | TUNDRA 4WD PRO |
|--------------------------------------|--------|---------------------------------------|----------------|

  
**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> | No                                                                                              |                                                       |                     |
| <b>Odometer Correction -- Initial</b>     | 11                                                                                              | <b>Odometer Correction Factor</b>                     | 1                   |
| <b>Odometer Correction Sign</b>           | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor |                                                       |                     |
| <b>Odometer Correction Units</b>          | Miles                                                                                           |                                                       |                     |
| <b>Engine Code</b>                        | 01                                                                                              | <b>Rated Horsepower</b>                               | 389                 |
| <b>Displacement (liters)</b>              | 3.445                                                                                           |                                                       |                     |
| <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>             | Liquid                                                                                          | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 4,000 (mi)          |
| <b>Curb Weight (lbs)</b>                  | 6105                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 6500                |
| <b>GVWR (lbs)</b>                         | 7615                                                                                            | <b>N/V Ratio</b>                                      | 21.6                |
| <b>Axle Ratio</b>                         | 3.31                                                                                            |                                                       |                     |
| <b>Transmission Type</b>                  | Automatic                                                                                       | <b># of Transmission Gears</b>                        | 10                  |
| <b>Transmission Lockup</b>                | Yes                                                                                             | <b>Creep Gear</b>                                     | No                  |

Certification Summary Information Report

|                                    |         |                       |                |                  |                              |                |                                                                                  |  |
|------------------------------------|---------|-----------------------|----------------|------------------|------------------------------|----------------|----------------------------------------------------------------------------------|--|
| Test Group                         |         | VTYXT03.4B5C          |                |                  | Evaporative/Refueling Family |                | VTYXR0170J62                                                                     |  |
| Dynamometer Coefficients:          |         |                       |                |                  |                              |                |                                                                                  |  |
| Target Coefficients                |         |                       |                | Set Coefficients |                              |                | EPA Calculated Total Road Load Horse Power for<br>City/Highway/Evap Coefficients |  |
| Coefficient<br>Category            | A (lbf) | B (lbf/mph)           | C (lbf/mph**2) | A (lbf)          | B (lbf/mph)                  | C (lbf/mph**2) |                                                                                  |  |
| City/Highway/Evap                  | 52.888  | 0.36819               | 0.038109       | 32.705           | -0.16677                     | 0.040326       | 22.2                                                                             |  |
| Cold CO                            | 58.176  | 0.405                 | 0.04192        | 35.234           | -0.36467                     | 0.045181       | N/A                                                                              |  |
| US06                               | 52.888  | 0.36819               | 0.038109       | 32.705           | -0.16677                     | 0.040326       | N/A                                                                              |  |
| Emission Control Device Comments   |         | --                    |                |                  |                              |                |                                                                                  |  |
| Manufacturer Test Vehicle Comments |         | Drive mode is SPORT+. |                |                  |                              |                |                                                                                  |  |

## Certification Summary Information Report

| Test Group                                     | VTYXT03.4B5C                                                                 | Evaporative/Refueling Family          | VTYXR0170J62                               |
|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------|
| <b>Test #</b>                                  | <b>NTYX10072537</b>                                                          | <b>Test Procedure</b>                 | <b>11 - Cold CO</b>                        |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 28 - Cold CO E10 Regular Gasoline (Tier 3) |
| <b>Test Date</b>                               | 10/08/2021                                                                   | <b>Fuel</b>                           | Gasoline                                   |
| <b>Fuel Batch ID</b>                           | 2F1-13                                                                       | <b>Fuel Calibration Number</b>        | 1                                          |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                            |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                            |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                            |
| <b>Test Start Odometer Reading</b>             | 5528                                                                         | <b>Odometer Units</b>                 | M                                          |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 4 (Bag 4 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 4 (Bag 4 Fuel Economy)                      | 0                     | 0                                                        |
| METHANE (CH4 - Methane)                            | 0.0222013             | --                                                       |
| CO (Carbon Monoxide)                               | 0.8982357             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.5                   | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.08                  | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.8                   | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0080948             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0037981             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.1565507             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.1772236             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

Certification Summary Information Report

|                            |               |                          |               |                       |     |                              |                          |        |         |                     |          |           |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0170J62        |          |           |
|                            |               | Test Result Name         |               | Unrounded Test Result |     |                              | Verify Calculated CO2    |        |         |                     |          |           |
|                            |               | Carbon dioxide           |               | 0                     |     |                              | --                       |        |         |                     |          |           |
| Manufacturer Test Comments |               | --                       |               |                       |     |                              |                          |        |         |                     |          |           |
| 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            | 0.90                  | --  | --                           | --                       | 0.01   | --      | 0.9                 | 12.5     | Pass      |
| Fed                        | 120,000 miles | Federal Tier 3 Bin 70    | HC-NM         | 0.16                  | --  | --                           | --                       | 0.01   | --      | 0.2                 | 0.5      | Pass      |
| CA                         | 50,000 miles  | California LEV-IV ULEV70 | CO            | 0.90                  | --  | --                           | --                       | 0.01   | --      | 0.9                 | 12.5     | Pass      |

## Certification Summary Information Report

| Test Group                                     | VTYXT03.4B5C                                                                 | Evaporative/Refueling Family          | VTYXR0170J62                                        |
|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test #</b>                                  | <b>NTYX10072540</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>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                            |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                   |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 5468                                                                         | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 4 (Bag 4 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 4 (Bag 4 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0052304             | --                                                       |
| CO (Carbon Monoxide)                               | 0.1361656             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.09                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.17                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.09                 | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0062076             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0018381             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0094042             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0103559             | --                                                       |
| PM (Particulate Matter)                            | 0.0013716             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0139602             | --                                                       |

## Certification Summary Information Report

| Test Group                                                                                                              |               | VTYXT03.4B5C                     |               |                       | Evaporative/Refueling Family |                                 |                          |        | VTYXR0170J62 |                     |          |           |
|-------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------|---------------|-----------------------|------------------------------|---------------------------------|--------------------------|--------|--------------|---------------------|----------|-----------|
|                                                                                                                         |               | Test Result Name                 |               | Unrounded Test Result |                              | Verify Calculated CREE/OPT-CREE |                          |        |              |                     |          |           |
|                                                                                                                         |               | Carbon-Related Exhaust Emissions |               | 0                     |                              | 999                             |                          |        |              |                     |          |           |
|                                                                                                                         |               | Test Result Name                 |               | Unrounded Test Result |                              | Verify Calculated CO2           |                          |        |              |                     |          |           |
|                                                                                                                         |               | Carbon dioxide                   |               | 0                     |                              | --                              |                          |        |              |                     |          |           |
| Manufacturer Test Comments                                                                                              |               | NMOG = HC-NM x 1.1012            |               |                       |                              |                                 |                          |        |              |                     |          |           |
| 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            | 0.14                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 1.7      | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | CO-COMP       | 0.25                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 4.2      | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | CREE          | 999                   | --                           | --                              | --                       | 0.041  | --           | 999                 | --       | --        |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NMOG          | 0.0104                | 1                            | 1.10                            | --                       | 0.0087 | --           | 0.019               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NMOG+NOX      | 0.0166                | 1                            | 1.10                            | --                       | --     | --           | 0.030               | 0.070    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NMOG+NOX-COMP | 0.0455                | 1                            | 1.03                            | --                       | 0.0138 | --           | 0.046               | 0.060    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | NOX           | 0.0062                | --                           | --                              | --                       | 0.0051 | --           | 0.011               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70            | PM            | 0.0014                | --                           | --                              | --                       | 0.0000 | --           | 0.001               | 0.003    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | CO            | 0.14                  | --                           | --                              | --                       | 0.03   | --           | 0.2                 | 1.7      | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | METHANE       | 0.0052                | --                           | --                              | --                       | 0.0033 | --           | 0.008               | 0.030    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | N2O           | 0.0018                | --                           | --                              | --                       | 0.0029 | --           | 0.005               | 0.010    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | NMOG          | 0.0104                | 1                            | 1.10                            | --                       | 0.0087 | --           | 0.019               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | NMOG+NOX      | 0.0166                | 1                            | 1.10                            | --                       | --     | --           | 0.030               | 0.070    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | NOX           | 0.0062                | --                           | --                              | --                       | 0.0051 | --           | 0.011               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70         | PM            | 0.0014                | --                           | --                              | --                       | 0.0000 | --           | 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>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0170J62                                       |
| <b>Test #</b>                                  | <b>NTYX10072550</b>                                                          | <b>Test Procedure</b>                 | <b>3 - HWFE</b>                                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5483                                                                         | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0007015             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0113892             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.47                  | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.17                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.36                  | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0017984             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0001354             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                       |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0004336             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | 999                             |

## Certification Summary Information Report

| Test Group                                                                                                              |               | VTYXT03.4B5C             |               |                       | Evaporative/Refueling Family |                  |                          |        | VTYXR0170J62 |                     |          |           |
|-------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|---------------|-----------------------|------------------------------|------------------|--------------------------|--------|--------------|---------------------|----------|-----------|
|                                                                                                                         |               | Test Result Name         |               | Unrounded Test Result |                              |                  | Verify Calculated CO2    |        |              |                     |          |           |
|                                                                                                                         |               | Carbon dioxide           |               | 0                     |                              |                  | --                       |        |              |                     |          |           |
| Manufacturer Test Comments                                                                                              |               | NMOG = HC-NM x 1.03      |               |                       |                              |                  |                          |        |              |                     |          |           |
| 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                   | --                           | --               | --                       | 0.041  | --           | 999                 | --       | --        |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NMOG          | 0.0000                | 1                            | 1.03             | --                       | 0.0087 | --           | 0.009               | 999.999  | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NMOG+NOX      | 0.0018                | 1                            | 1.03             | --                       | --     | --           | 0.016               | 0.070    | Pass      |
| Fed                                                                                                                     | 150,000 miles | Federal Tier 3 Bin 70    | NOX           | 0.0018                | --                           | --               | --                       | 0.0051 | --           | 0.007               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0000                | 1                            | 1.03             | --                       | 0.0087 | --           | 0.009               | 999.999  | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0018                | 1                            | 1.03             | --                       | --     | --           | 0.016               | 0.070    | Pass      |
| CA                                                                                                                      | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0018                | --                           | --               | --                       | 0.0051 | --           | 0.007               | 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>                              | VTYXT03.4B5C                                                                 | <b>Evaporative/Refueling Family</b>   | VTYXR0170J62                                       |
| <b>Test #</b>                                  | NTYX10072539                                                                 | <b>Test Procedure</b>                 | 90 - US06                                          |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                           | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/06/2021                                                                   | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                                                       | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000), LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                                                     |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                                                           |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5504                                                                         | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                           | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0046876             | --                                                       |
| CO (Carbon Monoxide)                               | 0.5395289             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.02                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.35                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.26                  | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0432136             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0038321             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.025101              | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.025854              | --                                                       |
| PM (Particulate Matter)                            | 0.0021434             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0294789             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

## Certification Summary Information Report

| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |        |         | VTYXR0170J62        |          |           |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name         |               | Unrounded Test Result |     | Verify Calculated CO2        |                          |        |         |                     |          |           |
|                            |               | Carbon dioxide           |               | 0                     |     | --                           |                          |        |         |                     |          |           |
| Manufacturer Test Comments |               | NMOG = HC-NM x 1.03      |               |                       |     |                              |                          |        |         |                     |          |           |
| 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    | PM            | 0.0021                | --  | --                           | --                       | 0.0000 | --      | 0.002               | 0.006    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.54                  | --  | --                           | --                       | 0.03   | --      | 0.6                 | 9.6      | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0259                | --  | 1.03                         | --                       | 0.0087 | --      | 0.035               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0691                | --  | 1.03                         | --                       | --     | --      | 0.083               | 0.084    | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0432                | --  | --                           | --                       | 0.0051 | --      | 0.048               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | PM            | 0.0021                | --  | --                           | --                       | 0.0000 | --      | 0.002               | 0.006    | Pass      |

## Certification Summary Information Report

|                                                |                                           |                                       |                                                    |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                              | <b>Evaporative/Refueling Family</b>   | VTYXR0170J62                                       |
| <b>Test #</b>                                  | NTYX10072575                              | <b>Test Procedure</b>                 | 95 - SC03                                          |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 10/12/2021                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2F1A01                                    | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT2 (LVW 3751-5750, GVW 0-6000)          | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                  |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5543                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                        | <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)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 999                   | 999                                                      |
| METHANE (CH4 - Methane)                            | 0.0046633             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0518175             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.22                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.1                  | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.18                 | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | 999                                                      |
| NOX (Nitrogen Oxide)                               | 0.0166562             | --                                                       |
| N2O (Nitrous Oxide)                                | 0                     | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0009788             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0010082             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0055242             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

Certification Summary Information Report

| Test Group                 |               | VTYXT03.4B5C             |               |                       |     | Evaporative/Refueling Family |                          |                       |         | VTYXR0170J62        |          |           |  |
|----------------------------|---------------|--------------------------|---------------|-----------------------|-----|------------------------------|--------------------------|-----------------------|---------|---------------------|----------|-----------|--|
|                            |               | Test Result Name         |               | Unrounded Test Result |     |                              |                          | Verify Calculated CO2 |         |                     |          |           |  |
|                            |               | Carbon dioxide           |               | 0                     |     |                              |                          | --                    |         |                     |          |           |  |
| Manufacturer Test Comments |               | NMOG = HC-NM x 1.03      |               |                       |     |                              |                          |                       |         |                     |          |           |  |
| 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                         | 150,000 miles | California LEV-IV ULEV70 | CO            | 0.05                  | --  | --                           | --                       | 0.03                  | --      | 0.1                 | 1.7      | Pass      |  |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG          | 0.0010                | 1   | 1.03                         | --                       | 0.0087                | --      | 0.010               | 999.999  | Pass      |  |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NMOG+NOX      | 0.0177                | 1   | 1.03                         | --                       | --                    | --      | 0.032               | 0.070    | Pass      |  |
| CA                         | 150,000 miles | California LEV-IV ULEV70 | NOX           | 0.0167                | --  | --                           | --                       | 0.0051                | --      | 0.022               | 999.999  | Pass      |  |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VTYXT03.4B5C | <b>Evaporative/Refueling Family</b> | VTYXR0170J62 |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |              |                                                  |              |
|-----------------------------------------|--------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | 24-TN2H / 0  | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | RTYXT02.4P34 | <b>Original Evaporative/Refueling Family</b>     | RTYXR0170J82 |
| <b>Original Test Vehicle Model Year</b> | 2024         |                                                  |              |

  
**Vehicle Model**

|                                      |        |                                       |                   |
|--------------------------------------|--------|---------------------------------------|-------------------|
| <b>Represented Test Vehicle Make</b> | TOYOTA | <b>Represented Test Vehicle Model</b> | TACOMA HYBRID 4WD |
|--------------------------------------|--------|---------------------------------------|-------------------|

  
**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> | No                                                                                              |                                                       |                     |
| <b>Odometer Correction -- Initial</b>     | 10                                                                                              | <b>Odometer Correction Factor</b>                     | 1                   |
| <b>Odometer Correction Sign</b>           | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor |                                                       |                     |
| <b>Odometer Correction Units</b>          | Miles                                                                                           |                                                       |                     |
| <b>Engine Code</b>                        | 01                                                                                              | <b>Rated Horsepower</b>                               | 278                 |
| <b>Displacement (liters)</b>              | 2.393                                                                                           |                                                       |                     |
| <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>                       | 2-Wheel Drive, Rear |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 4,000 (mi)          |
| <b>Curb Weight (lbs)</b>                  | 5275                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 5500                |
| <b>GVWR (lbs)</b>                         | 6735                                                                                            | <b>N/V Ratio</b>                                      | 26.1                |
| <b>Axle Ratio</b>                         | 3.58                                                                                            |                                                       |                     |
| <b>Transmission Type</b>                  | Automatic                                                                                       | <b># of Transmission Gears</b>                        | 8                   |
| <b>Transmission Lockup</b>                | Yes                                                                                             | <b>Creep Gear</b>                                     | No                  |

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## Certification Summary Information Report

|                                                |                                                                   |                                       |                                                    |
|------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                                                      | <b>Evaporative/Refueling Family</b>   | VTYXR0170J62                                       |
| <b>Test #</b>                                  | <b>RTYX10084963</b>                                               | <b>Test Procedure</b>                 | <b>23 - 2-day evap</b>                             |
| <b>Exhaust Test # for this Evap Test</b>       | RTYX10084962                                                      | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 02/20/2023                                                        | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 243R01                                                            | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | N/A                                                               | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Engineering & Manufacturing<br>North America, Inc. 2 |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons)                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3952                                                              | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.3575                | --                                                       |

## Manufacturer Test Comments

HSL=0.0280, 1ST DBL=0.3295, 2ND DBL=0.3115, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0010 GRAM)

| 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 | 0.3575         | 0.0000 | 0.358               | 0.500    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.3575         | 0.0000 | 0.358               | 0.500    | Pass      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | VTYXT03.4B5C                                                   | <b>Evaporative/Refueling Family</b>                      | VTYXR0170J62                                       |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|----------------------|-----------------------|----------------------------------------------------------|----------------------------------|----------------|--------|-------------------------------|----------|-----------|----------------------------------|---------------|---------------------|-------------------------------|--------|--------|----------------------------------|-------|------|-------------------------------|---------------|----------------------------------------|-----------------------------------------------------------|--------|--------|-------|-------|------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>RTYX10085261</b>                                            | <b>Test Procedure</b>                                    | <b>34 - Federal fuel 3-day evap</b>                |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RTYX10085252                                                   | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 03/19/2023                                                     | <b>Fuel</b>                                              | Gasoline                                           |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 243R02                                                         | <b>Fuel Calibration Number</b>                           | 1                                                  |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | N/A                                                            | <b>DF Type</b>                                           | Mfr. Determined                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Toyota Motor Engineering & Manufacturing North America, Inc. 2 |                                                          |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Calculated (1.08 x FID Total Hydrocarbons)                     |                                                          |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4129                                                           | <b>Odometer Units</b>                                    | M                                                  |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                                                             | <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"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td> <td>0</td> <td>--</td> </tr> <tr> <td>FE BAG 1 (Bag 1 Fuel Economy)</td> <td>999</td> <td>999</td> </tr> <tr> <td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td> <td>0</td> <td>--</td> </tr> <tr> <td>FE BAG 2 (Bag 2 Fuel Economy)</td> <td>999</td> <td>999</td> </tr> <tr> <td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td> <td>0</td> <td>--</td> </tr> <tr> <td>FE BAG 3 (Bag 3 Fuel Economy)</td> <td>999</td> <td>999</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.1713</td> <td>--</td> </tr> </tbody> </table> |                                                                |                                                          |                                                    | Test Result Name     | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 0              | --     | FE BAG 1 (Bag 1 Fuel Economy) | 999      | 999       | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 0             | --                  | FE BAG 2 (Bag 2 Fuel Economy) | 999    | 999    | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 0     | --   | FE BAG 3 (Bag 3 Fuel Economy) | 999           | 999                                    | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.1713 | --     |       |       |      |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unrounded Test Result                                          | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                              | --                                                       |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 999                                                            | 999                                                      |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                              | --                                                       |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 999                                                            | 999                                                      |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                              | --                                                       |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 999                                                            | 999                                                      |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.1713                                                         | --                                                       |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |                                                          |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| HSL=0.0443, 1ST DBL=0.1270, 2ND DBL=0.0971, 3RD DBL=0.0990, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0010GRAM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |                                                          |                                                    |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
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| 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                                     | 0.1713               | 0.0000                | 0.171                                                    | 0.500                            | Pass           |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |
| CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 150,000 miles                                                  | California LEV-IV Zero Evap (Option 2)                   | HC-TOTAL-EQUIV                                     | 0.1713               | 0.0000                | 0.171                                                    | 0.500                            | Pass           |        |                               |          |           |                                  |               |                     |                               |        |        |                                  |       |      |                               |               |                                        |                                                           |        |        |       |       |      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | VTYXT03.4B5C                                                   |                                                          | <b>Evaporative/Refueling Family</b>   | VTYXR0170J62                                       |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------|----------------------------------------------------|--------|----------------------|-----------------------|----------------------------------------------------------|----------------------------------|----------------|--------|-------------------------------|----------|-----------|----------------------------------|---------------|---------------------|-------------------------------|-------|-------|----------------------------------|------|------|-------------------------------|---------------|----------------------------------------|-----------------------------------------------------------|-----------|-------|------|------|------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>RTYX10085258</b>                                            |                                                          | <b>Test Procedure</b>                 | <b>32 - Federal Fuel Running Loss</b>              |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RTYX10085252                                                   |                                                          | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 03/20/2023                                                     |                                                          | <b>Fuel</b>                           | Gasoline                                           |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 243R02                                                         |                                                          | <b>Fuel Calibration Number</b>        | 1                                                  |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A                                                            |                                                          | <b>DF Type</b>                        | Mfr. Determined                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Toyota Motor Engineering & Manufacturing North America, Inc. 2 |                                                          |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Calculated (1.08 x FID Total Hydrocarbons)                     |                                                          |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4140                                                           |                                                          | <b>Odometer Units</b>                 | M                                                  |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No                                                             |                                                          | <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |                                                          |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
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| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unrounded Test Result                                          | Verify Calculated FE Equivalent Value (miles per gallon) |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 999                                                            | --                                                       |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                              | 0                                                        |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 999                                                            | --                                                       |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                              | 0                                                        |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 999                                                            | --                                                       |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                              | 0                                                        |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0000237                                                      | --                                                       |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| <b>Manufacturer Test Comments</b> --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                |                                                          |                                       |                                                    |        |                      |                       |                                                          |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
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| Certification Region                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Useful Life                                                    | Standard Level                                           | Emission Name                         | Rounded Result                                     | Add DF | Certification Level  | Standard              | Pass/Fail                                                |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| Fed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150,000 miles                                                  | Federal Tier 3 Evap                                      | HC-TOTAL-EQUIV                        | 0.000                                              | 0.000  | 0.00                 | 0.05                  | Pass                                                     |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |
| CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 150,000 miles                                                  | California LEV-IV Zero Evap (Option 2)                   | HC-TOTAL-EQUIV                        | 0.000                                              | 0.000  | 0.00                 | 0.01                  | Pass                                                     |                                  |                |        |                               |          |           |                                  |               |                     |                               |       |       |                                  |      |      |                               |               |                                        |                                                           |           |       |      |      |      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                         | VTYXT03.4B5C                                                                                    | <b>Evaporative/Refueling Family</b>                   | VTYXR0170J62        |                        |              |      |   |                |             |   |                   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|------------------------|--------------|------|---|----------------|-------------|---|-------------------|----------|
| <b>Emission Data Vehicle Information</b>                                                                                                                                                                                                                                  |                                                                                                 |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Vehicle ID / Configuration</b>                                                                                                                                                                                                                                         | 25-TN2H / 0                                                                                     | <b>Manufacturer Vehicle Configuration Number</b>      | 0                   |                        |              |      |   |                |             |   |                   |          |
| <b>Original Test Group Name</b>                                                                                                                                                                                                                                           | STYXT02.4H3J                                                                                    | <b>Original Evaporative/Refueling Family</b>          | STYXR0170J92        |                        |              |      |   |                |             |   |                   |          |
| <b>Original Test Vehicle Model Year</b>                                                                                                                                                                                                                                   | 2025                                                                                            |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Vehicle Model</b>                                                                                                                                                                                                                                                      |                                                                                                 |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Represented Test Vehicle Make</b>                                                                                                                                                                                                                                      | TOYOTA                                                                                          | <b>Represented Test Vehicle Model</b>                 | 4RUNNER 4WD         |                        |              |      |   |                |             |   |                   |          |
| <b>Leak Family Details</b>                                                                                                                                                                                                                                                |                                                                                                 |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Leak Family Identifier</b>                                                                                                                                                                                                                                             | --                                                                                              | <b>Leak Family Name</b>                               | --                  |                        |              |      |   |                |             |   |                   |          |
| <b>Drive Sources and Fuel System Details</b>                                                                                                                                                                                                                              |                                                                                                 |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> <tr> <td>2</td><td>Combustion Engine</td><td>Gasoline</td></tr> </tbody> </table> |                                                                                                 |                                                       |                     | Drive Source and Fuel# | Drive Source | Fuel | 1 | Electric Motor | Electricity | 2 | Combustion Engine | Gasoline |
| 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>                                                                                                                                                                                                                                 | No                                                                                              |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Odometer Correction -- Initial</b>                                                                                                                                                                                                                                     | 9                                                                                               | <b>Odometer Correction Factor</b>                     | 1                   |                        |              |      |   |                |             |   |                   |          |
| <b>Odometer Correction Sign</b>                                                                                                                                                                                                                                           | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Odometer Correction Units</b>                                                                                                                                                                                                                                          | Miles                                                                                           |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Engine Code</b>                                                                                                                                                                                                                                                        | 01                                                                                              | <b>Rated Horsepower</b>                               | 278                 |                        |              |      |   |                |             |   |                   |          |
| <b>Displacement (liters)</b>                                                                                                                                                                                                                                              | 2.393                                                                                           |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <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>                       | 2-Wheel Drive, Rear |                        |              |      |   |                |             |   |                   |          |
| <b>Shift Indicator Light Usage</b>                                                                                                                                                                                                                                        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 4,000 (mi)          |                        |              |      |   |                |             |   |                   |          |
| <b>Curb Weight (lbs)</b>                                                                                                                                                                                                                                                  | 5310                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 5500                |                        |              |      |   |                |             |   |                   |          |
| <b>GVWR (lbs)</b>                                                                                                                                                                                                                                                         | 6505                                                                                            | <b>N/V Ratio</b>                                      | 25.2                |                        |              |      |   |                |             |   |                   |          |
| <b>Axle Ratio</b>                                                                                                                                                                                                                                                         | 3.58                                                                                            |                                                       |                     |                        |              |      |   |                |             |   |                   |          |
| <b>Transmission Type</b>                                                                                                                                                                                                                                                  | Automatic                                                                                       | <b># of Transmission Gears</b>                        | 8                   |                        |              |      |   |                |             |   |                   |          |
| <b>Transmission Lockup</b>                                                                                                                                                                                                                                                | Yes                                                                                             | <b>Creep Gear</b>                                     | No                  |                        |              |      |   |                |             |   |                   |          |

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## Certification Summary Information Report

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VTYXT03.4B5C                               | <b>Evaporative/Refueling Family</b>   | VTYXR0170J62                                       |
| <b>Test #</b>                                  | STYX10085722                               | <b>Test Procedure</b>                 | <b>24 - Federal fuel refueling test (ORVR)</b>     |
| <b>Exhaust Test # for this Evap Test</b>       | RTYX10084962                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 04/05/2024                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 2D3A01                                     | <b>Fuel Calibration Number</b>        | 8                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | Toyota Motor Corporation                   |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3801                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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)                          | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                             | 999                   | 999                                                      |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                          | 0                     | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                             | 999                   | 999                                                      |
| MFR FE (Manufacturer Fuel Economy)                        | 999                   | 999                                                      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0305                | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

Manufacturer Test Comments --

| 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 | 0.030          | 0.000  | 0.03                | 0.20     | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.030          | 0.000  | 0.03                | 0.20     | Pass      |

## Certification Summary Information Report

| Test Group                                                                | VTYXT03.4B5C                                       | Evaporative/Refueling Family                                              | VTYXR0170J62 |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>243R02</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 02/16/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 02/21/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 02/21/2025   |
| <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>                                              | 0.753        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 10                                                 | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 18488        |
| <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> | 0.829                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>2F1A01</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>2</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2021   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/01/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/31/2021   |
| <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>                                              | 0.74         |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.8                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17837        |
| <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> | 0.826                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>243R01</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 12/11/2023   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 02/12/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 02/12/2025   |
| <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>                                              | 0.752        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.8                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 18512        |
| <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>2F1-13</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 28 - Cold CO E10 Regular Gasoline (Tier 3)         | <b>Fuel Batch Calibration Date</b>                                        | 06/30/2020   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/08/2021                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/31/2021   |

## Certification Summary Information Report

| Test Group                                                         |                                                    | VTYXT03.4B5C | Evaporative/Refueling Family                                       | VTYXR0170J62 |
|--------------------------------------------------------------------|----------------------------------------------------|--------------|--------------------------------------------------------------------|--------------|
| Carbon Weight Fraction NMHC                                        | --                                                 |              | Carbon Weight Fraction HC                                          | --           |
| Exhaust Carbon Weight Fraction                                     | --                                                 |              | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --                                                 |              | Fuel Specific Gravity                                              | 0.737        |
| Fuel Ethanol Volume Percent (%)                                    | 10                                                 |              | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | 17799        |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | --                                                 |              | Fuel Carbon Mass Fraction (E10)                                    | --           |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | 0.825                                              |              | Weight Fraction CO2                                                | --           |
| Fuel Batch ID                                                      | 2D3A01                                             |              | Fuel Calibration Number                                            | 8            |
| Test Fuel Type                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |              | Fuel Batch Calibration Date                                        | 04/19/2023   |
| Fuel Batch Calibration Effective Date                              | 03/01/2024                                         |              | Fuel Batch Calibration Ineffective Date                            | 03/31/2023   |
| Carbon Weight Fraction NMHC                                        | --                                                 |              | Carbon Weight Fraction HC                                          | --           |
| Exhaust Carbon Weight Fraction                                     | --                                                 |              | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --                                                 |              | Fuel Specific Gravity                                              | 0.739        |
| Fuel Ethanol Volume Percent (%)                                    | 9.6                                                |              | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | 17859        |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | --                                                 |              | Fuel Carbon Mass Fraction (E10)                                    | --           |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | 0.825                                              |              | Weight Fraction CO2                                                | --           |

## Certification Summary Information Report

|                                |               |                                            |     |             |                                 |                                   |                                         |        |         |
|--------------------------------|---------------|--------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|-----------------------------------------|--------|---------|
| Test Group                     |               | VTYXT03.4B5C                               |     |             | Evaporative/Refueling Family    |                                   | VTYXR0170J62                            |        |         |
| Consolidated List of Standards |               |                                            |     |             |                                 |                                   |                                         |        |         |
| Exhaust Standards              |               |                                            |     |             |                                 |                                   |                                         |        |         |
| Cert Region                    |               | California + CAA Section 177 states        |     |             | Cert/In-Use Code                |                                   | Cert                                    |        |         |
| Vehicle Class                  |               | LDT2 (LVW 3751-5750, GVW 0-6000)           |     |             | 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            | --                                         | --  | --          | --                              | --                                | --                                      | 0.03   | 1.7     |
| 150,000 miles                  | NMOG          | --                                         | 1   | 1.03        | --                              | --                                | --                                      | 0.0087 | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | 1   | 1.03        | --                              | --                                | --                                      | 0.0138 | 0.070   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --                                      | 0.0051 | 999.999 |
|                                |               |                                            |     |             |                                 |                                   |                                         |        |         |
| Cert Region                    |               | Federal                                    |     |             | Cert/In-Use Code                |                                   | Cert                                    |        |         |
| Vehicle Class                  |               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   | Federal Tier 3 Bin 70                   |        |         |
| Fuel                           |               | Gasoline                                   |     |             | Test Procedure                  |                                   | 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     |
| 150,000 miles                  | CO            | --                                         | --  | --          | --                              | --                                | --                                      | 0.03   | 1.7     |
| 150,000 miles                  | CO-COMP       | --                                         | --  | --          | --                              | --                                | --                                      | 0.03   | 4.2     |
| 150,000 miles                  | CREE          | --                                         | --  | --          | --                              | --                                | --                                      | 0.041  | 999.999 |
| 150,000 miles                  | HCHO          | --                                         | --  | --          | --                              | --                                | --                                      | --     | 0.004   |
| 150,000 miles                  | NMOG          | --                                         | 1   | 1.10        | --                              | --                                | --                                      | 0.0087 | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | 1   | 1.10        | --                              | --                                | --                                      | 0.0138 | 0.070   |
| 150,000 miles                  | NMOG+NOX-COMP | --                                         | 1   | 1.03        | --                              | --                                | --                                      | 0.0138 | 0.060   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --                                      | 0.0051 | 999.999 |
| 150,000 miles                  | PM            | --                                         | --  | --          | --                              | --                                | --                                      | 0.0000 | 0.003   |
|                                |               |                                            |     |             |                                 |                                   |                                         |        |         |

## Certification Summary Information Report

|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                        |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0170J62                            |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV ULEV70                |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | CA fuel 50 Deg(F) exhaust test          |            |
| <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                   | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 1.7        |
| 4,000 miles          | HCHO                 | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 0.016      |
| 4,000 miles          | NMOG                 | --                                  | 1          | 1.10               | --                                     | --                                       | --             | --                                      | 999.999    |
| 4,000 miles          | NMOG+NOX             | --                                  | 1          | 1.10               | --                                     | --                                       | 1              | --                                      | 0.140      |
| 4,000 miles          | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 999.999    |
|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.03                                    | 1.7        |
| 150,000 miles        | HCHO                 | --                                  | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |
| 150,000 miles        | METHANE              | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0033                                  | 0.030      |
| 150,000 miles        | N2O                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0029                                  | 0.010      |
| 150,000 miles        | NMOG                 | --                                  | 1          | 1.10               | --                                     | --                                       | --             | 0.0087                                  | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | 1          | 1.10               | --                                     | --                                       | --             | 0.0138                                  | 0.070      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                                  | 999.999    |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0000                                  | 0.003      |
|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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          | 1.03               | --                                     | --                                       | --             | 0.0087                                  | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | 1          | 1.03               | --                                     | --                                       | --             | 0.0138                                  | 0.070      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                                  | 999.999    |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0170J62          |            |
| <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                 | --                                         | --         | --                 | --                                     | --                                       | --             | 0.041                 | 999.999    |
| 150,000 miles        | NMOG                 | --                                         | 1          | 1.03               | --                                     | --                                       | --             | 0.0087                | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | 1          | 1.03               | --                                     | --                                       | --             | 0.0138                | 0.070      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | 0.0051                | 999.999    |

|                      |                      |                                     |            |                    |                                        |                                          |                |                          |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.03                     | 9.6        |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.03               | --                                     | --                                       | --             | 0.0087                   | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | 1.03               | --                                     | --                                       | --             | 0.0138                   | 0.084      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0051                   | 999.999    |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0000                   | 0.006      |

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <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        | PM                   | --                                         | --         | --                 | --                                     | --                                       | --             | 0.0000                | 0.006      |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VTYXT03.4B5C                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VTYXR0170J62          |            |
| <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                   | --                                         | --         | --                 | --                                     | --                                       | --             | 0.01                  | 12.5       |
| 120,000 miles        | HC-NM                | --                                         | --         | --                 | --                                     | --                                       | --             | 0.01                  | 0.5        |

|                      |                      |                                     |            |                    |                                        |                                          |                |                          |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|--------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                     |            |
| <b>Vehicle Class</b> |                      | LDT2 (LVW 3751-5750, GVW 0-6000)    |            |                    | <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                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.01                     | 12.5       |

## Evaporative/Refueling Standards

|                              |               |                           |                |                |        |                     |  |
|------------------------------|---------------|---------------------------|----------------|----------------|--------|---------------------|--|
| Evaporative/Refueling Family |               | VTYXR0170J62              |                | Cert Region    |        | Federal             |  |
| Cert/In-Use Code             |               | Cert                      |                | Standard Level |        | Federal Tier 3 Evap |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                |        |                     |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std            | Add DF |                     |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.05           | 0.000  |                     |  |

|                                     |                    |                      |                       |                       |               |                     |  |
|-------------------------------------|--------------------|----------------------|-----------------------|-----------------------|---------------|---------------------|--|
| <b>Evaporative/Refueling Family</b> |                    | VTYXR0170J62         |                       | <b>Cert Region</b>    |               | Federal             |  |
| <b>Cert/In-Use Code</b>             |                    | Cert                 |                       | <b>Standard Level</b> |               | Federal Tier 3 Evap |  |
| <b>Test Procedure</b>               |                    | Spitback             |                       |                       |               |                     |  |
| <b>Fuel</b>                         | <b>Useful Life</b> | <b>Emission Name</b> | <b>Rounded Result</b> | <b>Std</b>            | <b>Add DF</b> |                     |  |
| Gasoline                            | 4,000 miles        | SPITBACK             | --                    | 1.0                   | --            |                     |  |

|                              |               |                                    |                |                |        |                                        |  |
|------------------------------|---------------|------------------------------------|----------------|----------------|--------|----------------------------------------|--|
| Evaporative/Refueling Family |               | VTYXR0170J62                       |                | Cert Region    |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std            | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.20           | 0.000  |                                        |  |

## Certification Summary Information Report

|                              |  |                                    |  |                              |  |                                        |  |
|------------------------------|--|------------------------------------|--|------------------------------|--|----------------------------------------|--|
| Test Group                   |  | VTYXT03.4B5C                       |  | Evaporative/Refueling Family |  | VTYXR0170J62                           |  |
|                              |  |                                    |  |                              |  |                                        |  |
| Evaporative/Refueling Family |  | VTYXR0170J62                       |  | Cert Region                  |  | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |  | Cert                               |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |  | 2-day evap                         |  |                              |  |                                        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | Std                                    |  |
|                              |  |                                    |  |                              |  | Add DF                                 |  |
|                              |  |                                    |  | --                           |  | 0.500                                  |  |
|                              |  |                                    |  |                              |  | 0.0000                                 |  |
|                              |  |                                    |  |                              |  |                                        |  |
| Evaporative/Refueling Family |  | VTYXR0170J62                       |  | Cert Region                  |  | Federal                                |  |
| Cert/In-Use Code             |  | Cert                               |  | Standard Level               |  | Federal Tier 3 Evap                    |  |
| Test Procedure               |  | 2-day evap                         |  |                              |  |                                        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | Std                                    |  |
|                              |  |                                    |  |                              |  | Add DF                                 |  |
|                              |  |                                    |  | --                           |  | 0.500                                  |  |
|                              |  |                                    |  |                              |  | 0.0000                                 |  |
|                              |  |                                    |  |                              |  |                                        |  |
| Evaporative/Refueling Family |  | VTYXR0170J62                       |  | Cert Region                  |  | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |  | Cert                               |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |  | Federal Fuel Running Loss          |  |                              |  |                                        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | Std                                    |  |
|                              |  |                                    |  |                              |  | Add DF                                 |  |
|                              |  |                                    |  | --                           |  | 0.01                                   |  |
|                              |  |                                    |  |                              |  | 0.000                                  |  |
|                              |  |                                    |  |                              |  |                                        |  |
| Evaporative/Refueling Family |  | VTYXR0170J62                       |  | Cert Region                  |  | Federal                                |  |
| Cert/In-Use Code             |  | Cert                               |  | Standard Level               |  | Federal Tier 3 Evap                    |  |
| Test Procedure               |  | Federal fuel 3-day evap            |  |                              |  |                                        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | Std                                    |  |
|                              |  |                                    |  |                              |  | Add DF                                 |  |
|                              |  |                                    |  | --                           |  | 0.500                                  |  |
|                              |  |                                    |  |                              |  | 0.0000                                 |  |
|                              |  |                                    |  |                              |  |                                        |  |
| Evaporative/Refueling Family |  | VTYXR0170J62                       |  | Cert Region                  |  | Federal                                |  |
| Cert/In-Use Code             |  | Cert                               |  | Standard Level               |  | Federal Tier 3 Evap                    |  |
| Test Procedure               |  | Federal fuel refueling test (ORVR) |  |                              |  |                                        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | Std                                    |  |
|                              |  |                                    |  |                              |  | Add DF                                 |  |
|                              |  |                                    |  | --                           |  | 0.20                                   |  |
|                              |  |                                    |  |                              |  | 0.000                                  |  |
|                              |  |                                    |  |                              |  |                                        |  |

Certification Summary Information Report

|                              |  |                         |  |                              |  |                                        |  |
|------------------------------|--|-------------------------|--|------------------------------|--|----------------------------------------|--|
| Test Group                   |  | VTYXT03.4B5C            |  | Evaporative/Refueling Family |  | VTYXR0170J62                           |  |
| Evaporative/Refueling Family |  | VTYXR0170J62            |  | Cert Region                  |  | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |  | Cert                    |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |  | Federal fuel 3-day evap |  |                              |  |                                        |  |
| Fuel                         |  | Useful Life             |  | Emission Name                |  | Rounded Result                         |  |
| Std                          |  | Add DF                  |  |                              |  |                                        |  |
| Gasoline                     |  | 150,000 miles           |  | HC-TOTAL-EQUIV               |  | --                                     |  |
|                              |  |                         |  |                              |  | 0.500                                  |  |
|                              |  |                         |  |                              |  | 0.0000                                 |  |

## Certification Summary Information Report

| Test Group     |                                                                 | VTYXT03.4B5C | Evaporative/Refueling Family |                                                    | VTYXR0170J62 |
|----------------|-----------------------------------------------------------------|--------------|------------------------------|----------------------------------------------------|--------------|
| Glossary       |                                                                 |              |                              |                                                    |              |
| Useful Life    |                                                                 |              |                              |                                                    |              |
| 4              | 4,000 miles                                                     |              | 120                          | 120,000 miles                                      |              |
| 50             | 50,000 miles                                                    |              | 150                          | 150,000 miles                                      |              |
| 100            | 100,000 miles                                                   |              |                              |                                                    |              |
| Emission Name  |                                                                 |              |                              |                                                    |              |
| HC-TOTAL       | Total Hydrocarbon                                               |              | COMB-CREE                    | Combined Carbon-Related Exhaust Emissions          |              |
| CO             | Carbon Monoxide                                                 |              | COMB-OPT-CREE                | Combined Optional Carbon-Related Exhaust Emissions |              |
| CO2            | Carbon dioxide                                                  |              | HC-TOTAL-EQUIV               | Total Hydrocarbon equivalent - Evap only           |              |
| CREE           | Carbon-Related Exhaust Emissions                                |              | METHANE-COMB                 | Combined CH4 for HD 2b/3 vehicles only             |              |
| OPT-CREE       | Optional Carbon-Related Exhaust Emissions                       |              | N2O-COMB                     | Combined Nitrous Oxide for HD 2b/3 vehicles only   |              |
| NOX            | Nitrogen Oxide                                                  |              | LEAK-DIA                     | Effective Leak Diameter (inches)                   |              |
| PM             | Particulate Matter                                              |              | LEAK-GAS CAP                 | Gas Cap Leakage (cc/min)                           |              |
| PM-COMP        | SFTP Composite Particulate Matter                               |              | CO2-COMB                     | Combined Carbon Dioxide for HD 2b/3 Vehicles Only  |              |
| HC-NM          | Non-methane Hydrocarbon                                         |              | KW-HRS                       | Integrated DC KW-HRS                               |              |
| OMHCE          | Organic material Hydrocarbon Equivalent                         |              | CH4 BAG 1                    | Bag 1 Methane                                      |              |
| OMNMHCE        | Organic material non-methane HC equivalent                      |              | CH4 BAG 2                    | Bag 2 Methane                                      |              |
| NMOG           | Non-methane organic gases                                       |              | CH4 BAG 3                    | Bag 3 Methane                                      |              |
| HCHO           | Formaldehyde                                                    |              | CH4 BAG 4                    | Bag 4 Methane                                      |              |
| H3C2HO         | Acetaldehyde                                                    |              | CO BAG 1                     | Bag 1 Carbon Monoxide                              |              |
| HC-NM+NOX      | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 |              | CO BAG 2                     | Bag 2 Carbon Monoxide                              |              |
| HC-NM+NOX-COMP | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        |              | CO BAG 3                     | Bag 3 Carbon Monoxide                              |              |
| CO-COMP        | SFTP Composite Carbon Monoxide                                  |              | CO BAG 4                     | Bag 4 Carbon Monoxide                              |              |
| ETHANOL        | C2H5OH - Ethanol                                                |              | NMOG BAG 1                   | Bag 1 Non-methane organic gases                    |              |
| FE BAG 1       | Bag 1 Fuel Economy                                              |              | NMOG BAG 2                   | Bag 2 Non-methane organic gases                    |              |
| FE BAG 2       | Bag 2 Fuel Economy                                              |              | NMOG BAG 3                   | Bag 3 Non-methane organic gases                    |              |
| FE BAG 3       | Bag 3 Fuel Economy                                              |              | NMOG BAG 4                   | Bag 4 Non-methane organic gases                    |              |
| FE BAG 4       | Bag 4 Fuel Economy                                              |              | ACT-DISTANCE BAG 1           | Bag 1 Actual Distance                              |              |
| MFR FE         | Manufacturer Fuel Economy                                       |              | ACT-DISTANCE BAG 2           | Bag 2 Actual Distance                              |              |
| HC             | Hydrocarbon for Running Loss and ORVR                           |              | ACT-DISTANCE BAG 3           | Bag 3 Actual Distance                              |              |
| METHANE        | CH4 - Methane                                                   |              | ACT-DISTANCE BAG 4           | Bag 4 Actual Distance                              |              |
| METHANOL       | CH3OH - Methanol                                                |              | HC-TOTAL BAG 1               | Bag 1 Total Hydrocarbon                            |              |
| N2O            | Nitrous Oxide                                                   |              | HC-TOTAL BAG 2               | Bag 2 Total Hydrocarbon                            |              |
| SPITBACK       | Spitback Hydrocarbon in grams                                   |              | HC-TOTAL BAG 3               | Bag 3 Total Hydrocarbon                            |              |
| AMP-HRS        | Integrated Amp-hours                                            |              | HC-TOTAL BAG 4               | Bag 4 Total Hydrocarbon                            |              |
| START-SOC      | System Start State of Charge Watt-hours                         |              | WATT-HRS BAG 1               | Bag 1 Watt Hours                                   |              |
| END-SOC        | System End State of Charge Watt-hours                           |              | WATT-HRS BAG 2               | Bag 2 Watt Hours                                   |              |

## Certification Summary Information Report

| Test Group                             |                                                            | VTYXT03.4B5C | Evaporative/Refueling Family |                                                 | VTYXR0170J62 |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|--------------|
| ACT-DISTANCE                           | Actual Distance Driven (miles)                             |              | WATT-HRS BAG 3               | Bag 3 Watt Hours                                |              |
| AS-VOLT                                | Average System Voltage                                     |              | WATT-HRS BAG 4               | Bag 4 Watt Hours                                |              |
| CO2 BAG 1                              | Bag 1 Carbon Dioxide                                       |              | WATT-HRS                     | Watt Hours                                      |              |
| CO2 BAG 2                              | Bag 2 Carbon Dioxide                                       |              | HC-NM BAG 1                  | Bag 1 Non-methane Hydrocarbon                   |              |
| CO2 BAG 3                              | Bag 3 Carbon Dioxide                                       |              | HC-NM BAG 2                  | Bag 2 Non-methane Hydrocarbon                   |              |
| CO2 BAG 4                              | Bag 4 Carbon Dioxide                                       |              | HC-NM BAG 3                  | Bag 3 Non-methane Hydrocarbon                   |              |
| NMOG+NOX                               | Non-methane organic gases plus Nitrogen Oxides             |              | HC-NM BAG 4                  | Bag 4 Non-methane Hydrocarbon                   |              |
| NMOG+NOX-COMP                          | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |              | N2O BAG 1                    | Bag 1 Nitrous Oxide                             |              |
| DT-IWRR                                | Drive Trace Inertia Work Ratio Rating                      |              | N2O BAG 2                    | Bag 2 Nitrous Oxide                             |              |
| DT-ASCR                                | Drive Trace Absolute Speed Change Rating                   |              | N2O BAG 3                    | Bag 3 Nitrous Oxide                             |              |
| DT-EER                                 | Drive Trace Energy Economy Rating                          |              | N2O BAG 4                    | Bag 4 Nitrous Oxide                             |              |
| <b>Certification Region</b>            |                                                            |              |                              |                                                 |              |
| CA                                     | California + CAA Section 177 states                        |              | FA                           | Federal                                         |              |
| <b>Exhaust Emission Standard Level</b> |                                                            |              |                              |                                                 |              |
| B1                                     | Federal Tier 2 Bin 1                                       |              | HDV2B340                     | Federal Tier 3 HD Class 2b Transitional Bin 340 |              |
| B2                                     | Federal Tier 2 Bin 2                                       |              | HDV2B250                     | Federal Tier 3 HD Class 2b Bin 250              |              |
| B3                                     | Federal Tier 2 Bin 3                                       |              | HDV2B200                     | Federal Tier 3 HD Class 2b Bin 200              |              |
| B4                                     | Federal Tier 2 Bin 4                                       |              | HDV2B170                     | Federal Tier 3 HD Class 2b Bin 170              |              |
| B5                                     | Federal Tier 2 Bin 5                                       |              | HDV2B150                     | Federal Tier 3 HD Class 2b Bin 150              |              |
| B6                                     | Federal Tier 2 Bin 6                                       |              | HDV2B0                       | Federal Tier 3 HD Class 2b Bin 0                |              |
| B7                                     | Federal Tier 2 Bin 7                                       |              | HDV3B630                     | Federal Tier 3 HD Class 3 Transitional Bin 630  |              |
| B8                                     | Federal Tier 2 Bin 8                                       |              | HDV3B570                     | Federal Tier 3 HD Class 3 Transitional Bin 570  |              |
| B9                                     | Federal Tier 2 Bin 9                                       |              | HDV3B400                     | Federal Tier 3 HD Class 3 Bin 400               |              |
| B10                                    | Federal Tier 2 Bin 10                                      |              | HDV3B270                     | Federal Tier 3 HD Class 3 Bin 270               |              |
| B11                                    | Federal Tier 2 Bin 11                                      |              | HDV3B230                     | Federal Tier 3 HD Class 3 Bin 230               |              |
| HDV1                                   | HDV1 (Federal HD chassis Class 2b GVW 8501-10000)          |              | HDV3B200                     | Federal Tier 3 HD Class 3 Bin 200               |              |
| HDV2                                   | HDV2 (Federal HD chassis Class 3 GVW 10001-14000)          |              | HDV3B0                       | Federal Tier 3 HD Class 3 Bin 0                 |              |
| L2                                     | California LEV-II LEV                                      |              | L4SULEV100                   | California LEV-IV SULEV100                      |              |
| L2OP                                   | California LEV-II LEV Optional                             |              | L4SULEV125                   | California LEV-IV SULEV125                      |              |
| U2                                     | California LEV-II ULEV                                     |              | L4SULEV15                    | California LEV-IV SULEV15                       |              |
| S2                                     | California LEV-II SULEV                                    |              | L4SULEV150                   | California LEV-IV SULEV150                      |              |
| ZEV                                    | California ZEV                                             |              | L4SULEV170                   | California LEV-IV SULEV170                      |              |
| OT                                     | Other                                                      |              | L4SULEV175                   | California LEV-IV SULEV175                      |              |
| T1                                     | Federal Tier 1                                             |              | L4SULEV20                    | California LEV-IV SULEV20                       |              |
| PZEV                                   | California PZEV                                            |              | L4SULEV200                   | California LEV-IV SULEV200                      |              |
| L2LEV160                               | California LEV-II LEV160                                   |              | L4SULEV230                   | California LEV-IV SULEV230                      |              |
| L2ULEV125                              | California LEV-II ULEV125                                  |              | L4SULEV25                    | California LEV-IV SULEV25                       |              |
| L2SULEV30                              | California LEV-II SULEV30                                  |              | L4SULEV30                    | California LEV-IV SULEV30                       |              |
| L2LEV395                               | California LEV-II LEV395                                   |              | L4SULEV75                    | California LEV-IV SULEV75                       |              |

## Certification Summary Information Report

| Test Group                    |                                                                   | VTYXT03.4B5C | Evaporative/Refueling Family                             |                            | VTYXR0170J62 |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|--------------|
| L2ULEV340                     | California LEV-II ULEV340                                         |              | L4SULEV85                                                | California LEV-IV SULEV85  |              |
| L2LEV630                      | California LEV-II LEV630                                          |              | L4ULEV125                                                | California LEV-IV ULEV125  |              |
| L2ULEV570                     | California LEV-II ULEV570                                         |              | L4ULEV200                                                | California LEV-IV ULEV200  |              |
| L3LEV160                      | California LEV-III LEV160                                         |              | L4ULEV250                                                | California LEV-IV ULEV250  |              |
| L3ULEV125                     | California LEV-III ULEV125                                        |              | L4ULEV270                                                | California LEV-IV ULEV270  |              |
| L3ULEV70                      | California LEV-III ULEV70                                         |              | L4ULEV40                                                 | California LEV-IV ULEV40   |              |
| L3ULEV50                      | California LEV-III ULEV50                                         |              | L4ULEV400                                                | California LEV-IV ULEV400  |              |
| L3SULEV30                     | California LEV-III SULEV30                                        |              | L4ULEV50                                                 | California LEV-IV ULEV50   |              |
| L3SULEV20                     | California LEV-III SULEV20                                        |              | L4ULEV60                                                 | California LEV-IV ULEV60   |              |
| L3LEV395                      | California LEV-III LEV395                                         |              | L4ULEV70                                                 | California LEV-IV ULEV70   |              |
| L3ULEV340                     | California LEV-III ULEV340                                        |              | T4B170                                                   | Federal Tier 4 MDV Bin 170 |              |
| L3ULEV250                     | California LEV-III ULEV250                                        |              | T4B150                                                   | Federal Tier 4 MDV Bin 150 |              |
| L3ULEV200                     | California LEV-III ULEV200                                        |              | T4B125                                                   | Federal Tier 4 MDV Bin 125 |              |
| L3SULEV170                    | California LEV-III SULEV170                                       |              | T4B100                                                   | Federal Tier 4 MDV Bin 100 |              |
| L3SULEV150                    | California LEV-III SULEV150                                       |              | T4B85                                                    | Federal Tier 4 MDV Bin 85  |              |
| L3LEV630                      | California LEV-III LEV630                                         |              | T4B75                                                    | Federal Tier 4 MDV Bin 75  |              |
| L3ULEV570                     | California LEV-III ULEV570                                        |              | T4B70                                                    | Federal Tier 4 Bin 70      |              |
| L3ULEV400                     | California LEV-III ULEV400                                        |              | T4B65                                                    | Federal Tier 4 Bin 65      |              |
| L3ULEV270                     | California LEV-III ULEV270                                        |              | T4B60                                                    | Federal Tier 4 Bin 60      |              |
| L3SULEV230                    | California LEV-III SULEV230                                       |              | T4B55                                                    | Federal Tier 4 Bin 55      |              |
| L3SULEV200                    | California LEV-III SULEV200                                       |              | T4B50                                                    | Federal Tier 4 Bin 50      |              |
| T3B160                        | Federal Tier 3 Bin 160                                            |              | T4B45                                                    | Federal Tier 4 Bin 45      |              |
| T3B125                        | Federal Tier 3 Bin 125                                            |              | T4B40                                                    | Federal Tier 4 Bin 40      |              |
| T3B110                        | Federal Tier 3 Transitional Bin 110                               |              | T4B35                                                    | Federal Tier 4 Bin 35      |              |
| T3B85                         | Federal Tier 3 Transitional Bin 85                                |              | T4B30                                                    | Federal Tier 4 Bin 30      |              |
| T3SULEV30                     | Federal Tier 3 Transitional LEV-II SULEV30 Carryover              |              | T4B25                                                    | Federal Tier 4 Bin 25      |              |
| T3B70                         | Federal Tier 3 Bin 70                                             |              | T4B20                                                    | Federal Tier 4 Bin 20      |              |
| T3B50                         | Federal Tier 3 Bin 50                                             |              | T4B15                                                    | Federal Tier 4 Bin 15      |              |
| T3B30                         | Federal Tier 3 Bin 30                                             |              | T4B10                                                    | Federal Tier 4 Bin 10      |              |
| T3B20                         | Federal Tier 3 Bin 20                                             |              | T4B5                                                     | Federal Tier 4 Bin 5       |              |
| T3B0                          | Federal Tier 3 Bin 0                                              |              | T4B0                                                     | Federal Tier 4 Bin 0       |              |
| HDV2B395                      | Federal Tier 3 HD Class 2b Transitional Bin 395                   |              |                                                          |                            |              |
| <b>Transmission Type Code</b> |                                                                   |              |                                                          |                            |              |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M            | Manual                                                   |                            |              |
| A                             | Automatic                                                         | OT           | Other                                                    |                            |              |
| AM                            | Automated Manual                                                  | SA           | Semi-Automatic                                           |                            |              |
| CVT                           | Continuously Variable                                             | SCV          | Selectable Continuously Variable (e.g. CVT with paddles) |                            |              |
| <b>Drive System Code</b>      |                                                                   |              |                                                          |                            |              |
| 4                             | 4-Wheel Drive                                                     | P            | Part-time 4-Wheel Drive                                  |                            |              |

Certification Summary Information Report

| Test Group                    |                                 | VTYXT03.4B5C | Evaporative/Refueling Family |                                  | VTYXR0170J62 |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|--------------|
| 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                     |              |

## 7. Test Results

Test group: VTYXT03.4B5C

### 1. Litmus test result

| Test Group<br>Fuel | FTP          | US06         | SC03         | Cold CO      | Highway      | City<br>Litmus<br>Value | City<br>Litmus<br>Threshold | Highway<br>Litmus<br>Value | Highway<br>Litmus<br>Threshold |
|--------------------|--------------|--------------|--------------|--------------|--------------|-------------------------|-----------------------------|----------------------------|--------------------------------|
| Gasoline           | NTYX10072540 | NTYX10072539 | NTYX10072575 | NTYX10072537 | NTYX10072550 | 14.3                    | 14.1                        | 18.4                       | 17.3                           |

### 2. Interim/In-Use Standard

|                  | Federal        | California     |
|------------------|----------------|----------------|
| FTP              | Not applicable | Not applicable |
| FTP (QDA)        | -              | -              |
| SFTP (Composite) | Not applicable | -              |
| SFTP (US06)      | -              | Not applicable |

8. **Emission testing waiver statements**

Please refer to the FOI common file for the following test waiver statements:

- High Altitude Exhaust Emissions
- High Altitude Evap/Refueling Emissions
- 91 RON fuel testing
- Formaldehyde (HCHO)
- Spitback
- Tier 4 Evaporative Leak Standard

9. **OBD System Description**

Please refer to OBD documents.

Toyota states that the OBD application meets the requirements of 40 CFR 86.1806-17 and 86.1844-01(d)(9) and is considered part of the Part 1 certification application.

10. **Description of Alternate-fueled Vehicles**

Please refer to the FOI common file.

**11.      AECD Descriptions**

**11.1      AECD and EI-AECD Descriptions**

Confidential information

## 11.2 SFTP / Lean Best Torque (LBT) Air fuel Ratio Information

Please refer to the CBI common file.

**12. Description of Vehicles Covered by Certificate and Test Parameters****12.1 Vehicle parameters**

Durability Group : VTYXHHGNNB21  
 Test Group : VTYXT03.4B5C  
 Evap./Refueling Family : VTYXR0265J62  
 Emission Control System : DFI+SFI,2WR-HO2S(2),2TWC(2),2TC,1CAC

| Carline       | Model name                                                                                                           | Model code     | Engine Code | Valves/cyl | Engine Disp. (L) | Sales Area | Trans-mission*2/<br>Overdrive | SIL | Tire*1        | N/V  | ETW (lb.) | Fuel tank vol. (L) | Rated HP             |
|---------------|----------------------------------------------------------------------------------------------------------------------|----------------|-------------|------------|------------------|------------|-------------------------------|-----|---------------|------|-----------|--------------------|----------------------|
| SEQUOIA 4WD*3 | TOYOTA SEQUOIA LIMITED iFORCE MAX 4X4 / TOYOTA SEQUOIA TRD PRO iFORCE MAX 4X4                                        | VXKH85L-GKVLZA | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/60R20 AS  | 21.6 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/60R20 OFF | 21.6 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/70R18 OFF | 21.5 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 285/65R18 OFF | 21.6 | 6500      | 85                 | 389@5200<br>418@5200 |
|               | TOYOTA SEQUOIA SR5 iFORCE MAX 4X4                                                                                    | VXKH85L-GKVSZA | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/60R20 OFF | 21.6 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/70R18 AS  | 21.5 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/70R18 OFF | 21.5 | 6500      | 85                 | 389@5200<br>418@5200 |
|               | TOYOTA SEQUOIA PLATINUM iFORCE MAX 4X4 / TOYOTA SEQUOIA CAPSTONE iFORCE MAX 4X4 / TOYOTA SEQUOIA 1794 iFORCE MAX 4X4 | VXKH85L-GKVZZA | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/50R22 AS  | 21.8 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/60R20 AS  | 21.6 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/60R20 OFF | 21.6 | 6500      | 85                 | 389@5200<br>418@5200 |
|               |                                                                                                                      |                | 03          | 4          | 3.445            | 50         | L4A0F-B (S10-3 SS) / N/A      | Yes | 265/70R18 OFF | 21.5 | 6500      | 85                 | 389@5200<br>418@5200 |

Note \*1: AS : All-season tire

OFF : Off-road tire

\*2: The number after “-“ indicates the number of transmission mode.

\*3: Models with 418 @5200 rated HP include TRD Performance Package.

## 12.1 Vehicle parameters

Evap./Refueling Family : VTYXR0325J62

| Carline      | Model name                                                                                      | Model code     | Engine Code | Valves/ cyl | Engine Disp. (L) | Sales Area | Trans-mission*2/ Overdrive | SIL | Tire*1        | N/V  | ETW (lb.) | Fuel tank vol. (L) | Rated HP             |
|--------------|-------------------------------------------------------------------------------------------------|----------------|-------------|-------------|------------------|------------|----------------------------|-----|---------------|------|-----------|--------------------|----------------------|
| TUNDRA 4WD*3 | Tundra 4x4 CrewCab Limited iFORCE MAX 5.5ft Bed                                                 | VXKH75L-PSVLZA | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A   | Yes | 265/60R20 AS  | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|              |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A   | Yes | 265/60R20 OFF | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|              |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A   | Yes | 265/70R18 OFF | 21.5 | 6500      | 122                | 389@5200<br>418@5200 |
|              | Tundra 4x4 CrewCab Capstone 5.5ft Bed                                                           | VXKH75L-PSVUZA | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A   | Yes | 265/50R22 AS  | 21.8 | 6500      | 122                | 389@5200<br>418@5200 |
|              | Tundra 4x4 CrewCab Platinum iFORCE MAX 6.5ft Bed / Tundra 4x4 CrewCab 1794 iFORCE MAX 6.5ft Bed | VXKH75L-PSVZZA | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A   | Yes | 265/60R20 AS  | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|              |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A   | Yes | 265/60R20 OFF | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|              |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A   | Yes | 265/70R18 OFF | 21.5 | 6500      | 122                | 389@5200<br>418@5200 |

Note \*1: AS : All-season tire

OFF : Off-road tire

\*2: The number after “-“ indicates the number of transmission mode.

\*3: Models with 418 @5200 rated HP include TRD Performance Package.

## 12.1 Vehicle parameters

| Carline          | Model name                                                                                      | Model code     | Engine Code | Valves/ cyl | Engine Disp. (L) | Sales Area | Trans- mission*2/ Overdrive | SIL | Tire*1        | N/V  | ETW (lb.) | Fuel tank vol. (L) | Rated HP             |
|------------------|-------------------------------------------------------------------------------------------------|----------------|-------------|-------------|------------------|------------|-----------------------------|-----|---------------|------|-----------|--------------------|----------------------|
| TUNDRA 4WD*3     | Tundra 4x4 CrewCab Limited iFORCE MAX 6.5ft Bed                                                 | VXKH76L-PRVLZA | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A    | Yes | 265/60R20 AS  | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|                  |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A    | Yes | 265/60R20 OFF | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|                  |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A    | Yes | 265/70R18 OFF | 21.5 | 6500      | 122                | 389@5200<br>418@5200 |
|                  | Tundra 4x4 CrewCab Platinum iFORCE MAX 5.5ft Bed / Tundra 4x4 CrewCab 1794 iFORCE MAX 5.5ft Bed | VXKH76L-PRVZZA | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A    | Yes | 265/60R20 AS  | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|                  |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A    | Yes | 265/60R20 OFF | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |
|                  |                                                                                                 |                | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A    | Yes | 265/70R18 OFF | 21.5 | 6500      | 122                | 389@5200<br>418@5200 |
| TUNDRA 4WD PRO*3 | Tundra 4x4 CrewCab TRD Pro iFORCE MAX 5.5ft Bed                                                 | VXKH75L-PSVLZA | 01          | 4           | 3.445            | 50         | L4A0F-A (S10-3 SS) / N/A    | Yes | 285/65R18 OFF | 21.6 | 6500      | 122                | 389@5200<br>418@5200 |

Note \*1: AS : All-season tire

OFF : Off-road tire

\*2: The number after “-“ indicates the number of transmission mode.

\*3: Models with 418 @5200 rated HP include TRD Performance Package.

## 12.1 Vehicle parameters

Evap./Refueling Family : VTYXR0170J62

| Carline | Model name                                                                                                   | Model code     | Engine Code | Valves/cyl | Engine Disp. (L) | Sales Area | Transmission*2/<br>Overdrive   | SIL | Tire*1       | N/V  | ETW (lb.) | Fuel tank vol. (L) | Rated HP |
|---------|--------------------------------------------------------------------------------------------------------------|----------------|-------------|------------|------------------|------------|--------------------------------|-----|--------------|------|-----------|--------------------|----------|
| LX 700h | LX 700h OVERTRAIL /<br>Lexus LX 700h F SPORT<br>Handling / LX 700h Luxury<br>/ Lexus LX 700h Ultra<br>Luxury | VJH310L-GKVLZA | 05          | 4          | 3.445            | 50         | L4A0F-C<br>(S10-3 SS) /<br>N/A | N/A | 265/50R22 AS | 21.8 | 6500      | 68                 | 409@5200 |
|         |                                                                                                              |                | 05          | 4          | 3.445            | 50         | L4A0F-C<br>(S10-3 SS) /<br>N/A | N/A | 265/55R20 AS | 22.6 | 6500      | 68                 | 409@5200 |
|         |                                                                                                              |                | 05          | 4          | 3.445            | 50         | L4A0F-C<br>(S10-3 SS) /<br>N/A | N/A | 265/70R18 AS | 21.9 | 6500      | 68                 | 409@5200 |

Note \*1: AS : All-season tire

OFF : Off-road tire

\*2: The number after “-“ indicates the number of transmission mode.

## 12.2 Test Parameters

Please refer to the FOI common file.

13. **Projected Sales and Compliance Plans**

Please refer to the CBI common file.

14. Request for Certificate

Test group : VTYXT03.4B5C  
Evap/refueling family : VTYXR0265J62

TOYOTA MOTOR CORPORATION requests that EPA/CARB issue a 2027 model year certificate of conformity and Executive Order for the above specified test group/evaporative family combination more fully described in this application. This combination complies with the following emission standards:

|             |               |                          |                           |                     |
|-------------|---------------|--------------------------|---------------------------|---------------------|
| Federal:    | Interim Tier4 | low-altitude<br><u>X</u> | high altitude<br><u>X</u> | Bin No<br><u>70</u> |
| California: | See Federal   |                          |                           |                     |



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Kevin Webber  
General Manager  
Regulatory Affairs & Environmental Sustainability  
Toyota Motor North America, Inc.

14. Request for Certificate

Test group : VTYXT03.4B5C  
Evap/refueling family : VTYXR0325J62

TOYOTA MOTOR CORPORATION requests that EPA/CARB issue a 2027 model year certificate of conformity and Executive Order for the above specified test group/evaporative family combination more fully described in this application. This combination complies with the following emission standards:

|             |               |                          |                           |                     |
|-------------|---------------|--------------------------|---------------------------|---------------------|
| Federal:    | Interim Tier4 | low-altitude<br><u>X</u> | high altitude<br><u>X</u> | Bin No<br><u>70</u> |
| California: | See Federal   |                          |                           |                     |



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Kevin Webber  
General Manager  
Regulatory Affairs & Environmental Sustainability  
Toyota Motor North America, Inc.

14. Request for Certificate

Test group : VTYXT03.4B5C  
Evap/refueling family : VTYXR0170J62

TOYOTA MOTOR CORPORATION requests that EPA/CARB issue a 2027 model year certificate of conformity and Executive Order for the above specified test group/evaporative family combination more fully described in this application. This combination complies with the following emission standards:

|             |               |                          |                           |                     |
|-------------|---------------|--------------------------|---------------------------|---------------------|
| Federal:    | Interim Tier4 | low-altitude<br><u>X</u> | high altitude<br><u>X</u> | Bin No<br><u>70</u> |
| California: | See Federal   |                          |                           |                     |

SULEV15



Kevin Webber  
General Manager  
Regulatory Affairs & Environmental Sustainability  
Toyota Motor North America, Inc.

**15.        Other Information**

15.1       Fee filing form

Invoice No.:EPA2027MY011

US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

Tracking Information

Pay.gov Tracking ID: 282SS4VF

Agency Tracking ID: 77406836367

General Information

Date: 06/02/2026

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

TYX

Manufacturer Name \*

Toyota Motor Corporation

Contact Name \*

Keisha Anderson

Contact Email Address \*

keisha.anderson@toyota.com

Contact Phone \*

734-995-3552

Calendar Year complete application submitted to EPA \*

2026

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

Payment Information

Amount Owed

\$32,317.00

Payment Type \*

Offline ACH

Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

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

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

Engine Family / Evaporative Family / Test Group \*

VTYXT03.4B5C

Certificate Request Type (Industry Sector Code)

Certificate Request Type \*

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? \*

No

16. **Confidential Information**

Please refer to the CBI common file.

17.8.1 Emission Control Information Labels

<SEQUOIA>

|                                                   |                                                        |           |
|---------------------------------------------------|--------------------------------------------------------|-----------|
| <b>TOYOTA</b>                                     | <b>VEHICLE EMISSION CONTROL INFORMATION</b>            |           |
|                                                   | <b>TOYOTA MOTOR CORPORATION</b>                        |           |
| Conforms to regulations<br>2027MY                 | TEST GROUP : VTYXT03.4B5C<br>EVAP FAMILY: VTYXR0265J62 |           |
| U.S.EPA : IT4B70 LDT4 OBD : CAII Fuel : Gasoline  |                                                        |           |
| This vehicle is authorized for sale in California |                                                        |           |
| DFI+SFI, 2WR-HO2S(2), 2TWC(2), 2TC, 1CAC          |                                                        |           |
| No adjustments needed.                            |                                                        |           |
| <b>F4060</b>                                      | <b>V35A-FTS</b>                                        | <b>PL</b> |

<TUNDRA>

|                                                   |                                                        |           |
|---------------------------------------------------|--------------------------------------------------------|-----------|
| <b>TOYOTA</b>                                     | <b>VEHICLE EMISSION CONTROL INFORMATION</b>            |           |
|                                                   | <b>TOYOTA MOTOR CORPORATION</b>                        |           |
| Conforms to regulations<br>2027MY                 | TEST GROUP : VTYXT03.4B5C<br>EVAP FAMILY: VTYXR0325J62 |           |
| U.S.EPA : IT4B70 LDT4 OBD : CAII Fuel : Gasoline  |                                                        |           |
| This vehicle is authorized for sale in California |                                                        |           |
| DFI+SFI, 2WR-HO2S(2), 2TWC(2), 2TC, 1CAC          |                                                        |           |
| No adjustments needed.                            |                                                        |           |
| <b>F4070</b>                                      | <b>V35A-FTS</b>                                        | <b>QF</b> |

<LX 700h>

|                                                    |                                                         |           |
|----------------------------------------------------|---------------------------------------------------------|-----------|
| <b>LEXUS</b>                                       | <b>VEHICLE EMISSION CONTROL INFORMATION</b>             |           |
|                                                    | <b>TOYOTA MOTOR CORPORATION</b>                         |           |
| Conforms to regulations<br>2027MY                  | TEST GROUP : VTYXT03.4B5C<br>EVAP FAMILY : VTYXR0170J62 |           |
| U. S. EPA : IT4B70 LDT4 OBD : CAII Fuel : Gasoline |                                                         |           |
| This vehicle is authorized for sale in California  |                                                         |           |
| DFI+SFI, 2WR-HO2S(2), 2TWC(2), 2TC, 1CAC           |                                                         |           |
| No adjustments needed.                             |                                                         |           |
| <b>70132</b>                                       | <b>V35A-FTS</b>                                         | <b>PN</b> |