

**Certification Summary Information Report**

|                                   |                      |                                     |                        |
|-----------------------------------|----------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Ford Motor Company   | <b>Manufacturer Code</b>            | FMX                    |
| <b>Test Group</b>                 | TFMXT03.51F1         | <b>Evaporative/Refueling Family</b> | TFMXR0295LDG           |
| <b>Certificate Number</b>         | TFMXT03.51F1-057-R01 | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | 10/23/2025           | <b>Certificate Revision Date</b>    | 02/18/2026             |
| <b>Certificate Effective Date</b> | 10/23/2025           | <b>Conditional Certificate</b>      | No                     |
| <b>CSI Revision #</b>             | --                   | <b>CSI Submission/Revision Date</b> | 01/23/2026 10:26:04 AM |
| <b>Model Year</b>                 | 2026                 |                                     |                        |

## Certification Summary Information Report

| Test Group                                   | TFMXT03.51F1  | Evaporative/Refueling Family                        | TFMXR0295LDG                        |
|--|---|---|-------------------------------------|
| <b>Test Group Information</b>                |   |   |                                     |
| CSI Type                                     | Update for Correction   | Running Change Reference Number                     | --                                  |
| GHG Exempt Status                            | Not Exempt  |   |                                     |
| <b>Drive Sources and Fuel(s)</b>             |   |   |                                     |
| <b>Drive Source #1:</b>                      | Combustion Engine   |   |                                     |
|  | <b>Fuel</b>   | <b>Basic Fuel Metering System</b>                   | <b>Lean Burn Strategy Indicator</b> |
|  | Gasoline  | Spark Ignition direct & ported injection            | No                                  |
| <b>Drive Source #2:</b>                      | Electric Motor  |   |                                     |
|  | <b>Fuel</b>   | <b>Basic Fuel Metering System</b>                   | <b>Lean Burn Strategy Indicator</b> |
|  | Electricity   | --  | No                                  |
| Hybrid Indicator                             | Yes   |   |                                     |
| Multiple Fuel Storage                        | --  | Rechargeable Energy Storage System Indicator        | Yes                                 |
| Multiple Fuel Combustion                     | --  | Off-board Charge Capable Indicator                  | No                                  |
| Fuel Cell Indicator                          | No  | EPA Vehicle Class                                   | LDT4                                |
| Federal Clean Fuel Vehicle                   | No  | Federal Clean Fuel Vehicle Standard                 | --                                  |
| Federal Clean Fuel Vehicle ILEV              | No  | California Partial Zero Emissions Vehicle Indicator | No                                  |
| Durability Group Name                        | TFMXHHGVNE1A  | Durability Group Equivalency Factor                 | 1.0                                 |
| Reduced Fee Test Group                       | No  | Certification Region Code(s)                        | FA, CA                              |
| Complies with HD GHG 2b/3 regulations?       | No  |   |                                     |
| Introduction into Commerce Date              | 03/27/2026  | CAP2000 Conditional Certificate?                    | No                                  |
| Independent Commercial Importer?             | No  | Alternative Fuel Converter Certificate?             | No                                  |
| SFTP Federal Composite Compliance Identifier | Tier 3  | SFTP Tier 2 Composite CO Option                     | No                                  |
| SFTP LEV-III Composite Compliance Indicator  | Yes   |   |                                     |
| OBD Compliance Type                          | CARB  | OBD Demonstration Vehicle Test Group                | TFMXT02.02JF                        |
| Test Group OBD Compliance Level              | Partial - with deficiencies   | Number of Test Group OBD Deficiencies               | 2                                   |
| OBD Deficiencies Comments                    | --  |   |                                     |
| Mfr Test Group Comments                      | E10 City Litmus Value: 15.2, City Litmus Threshold: 14.7, Hwy Litmus Value 20.1, Hwy Litmus Threshold: 18.4 |   |                                     |
| Mfr Exhaust / Evap Standards Comments        | --  |   |                                     |

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|   |  |   |                                     |                         |                     |                     |                       |
|---|--|---|-------------------------------------|-------------------------|---------------------|---------------------|-----------------------|
| <b>Test Group</b>   | TFMXT03.51F1                                     | <b>Evaporative/Refueling Family</b>                       | TFMXR0295LDG                        |                         |                     |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |  |   |                                     |                         |                     |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | New  | <b>Submission/Correction Date</b>                         | 08/28/2025 12:49:32 PM              |                         |                     |                     |                       |
| <b>Integrated ORVR?</b>   | No   | <b>Fuel(s)</b>  | Gasoline, Electricity               |                         |                     |                     |                       |
| <b>Multiple Fuel Storage</b>  | Fuels Stored Separately                          |   |                                     |                         |                     |                     |                       |
| <b>Bladder Fuel Tank?</b>   | No   |   |                                     |                         |                     |                     |                       |
| <b>Fuel Tank Material</b>   | Plastic  | <b>Fuel Tank Material Description</b>                     | Plastic                             |                         |                     |                     |                       |
| <b>Fill Pipe Seal Type</b>  | Liquid seal                                      |   |                                     |                         |                     |                     |                       |
| <b>Air Intake System Vapor Storage Device?</b>                              | Yes  | <b>Air Intake System Vapor Storage Device Description</b> | AIS HC Trap in Air Induction System |                         |                     |                     |                       |
| <b>Fuel System Vapor Storage Canister?</b>                                  | Yes  | <b>Other Vapor Storage</b>                                | 1 X 4.5L HA 3-port Rect.            |                         |                     |                     |                       |
| <b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b> | 295  | <b>Number of Primary Canisters</b>                        | 1                                   |                         |                     |                     |                       |
| <b>Number of Bleed Canisters</b>  | 0  | <b>Bleed Canister Total Working Capacity (grams)</b>      | 0                                   |                         |                     |                     |                       |
| <b>Mfr Evaporative/Refueling Family Comments</b>                            | F150 FHEV 3.5L GTPFDI                            |   |                                     |                         |                     |                     |                       |
| <b>Leak Family Details</b>  |  |   |                                     |                         |                     |                     |                       |
| <b>Leak Family Indicator</b>  | Yes  |   |                                     |                         |                     |                     |                       |
| <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>Leak Family Name</b>   | <b>Applicability of Leak Family Requirements</b> | <b>Leak Family Standard (inches)</b>                      | <b>Leak Family Description</b>      |                         |                     |                     |                       |
| TFMXR0295LDG-001  | 50 State   | 0.02  | --                                  |                         |                     |                     |                       |
| <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> |
| Ford Motor Company  | 1 - Ford   | 132 - F150 PICKUP 4WD HEV                                 | California + CAA Section 177 states | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company  | 1 - Ford   | 131 - F150 PICKUP 2WD HEV                                 | California + CAA Section 177 states | 2-Wheel Drive, Rear     | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company  | 1 - Ford   | 131 - F150 PICKUP 2WD HEV                                 | Federal                             | 2-Wheel Drive, Rear     | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company  | 1 - Ford   | 132 - F150 PICKUP 4WD HEV                                 | Federal                             | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |

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|  |                          |  |   |                               |
|--|--------------------------|--|---|-------------------------------|
| <b>Test Group</b>                                | TFMXT03.51F1             | <b>Evaporative/Refueling Family</b>                      | TFMXR0295LDG  |                               |
| <b>Engine Description</b>                        |                          | <b>Hybrid Description</b>                                | --  |                               |
| <b>Hybrid Type</b>                               | IC Engine/Electric Motor |  | Hybrid Electric w/4 stroke Atkinson, Gasoline Fueled, Turbocharged, Direct Injection, Sequential Fuel Injection, Catalyst Code E (Pt/Pd/Rh) |                               |
| <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>                      | 5W-30 / ILSAC GF-7  |                               |
| <b>Number of Cylinders/Rotors</b>                | 6                        | <b>Mechanically Variable Compression Ratio Indicator</b> | N   |                               |
| <b>After Treatment Device(s) (ATD)</b>           |                          |  |   |                               |
| <b>ATD Number</b>                                | <b>ATD Type</b>          | <b>ATD Precious Metal</b>                                | <b>Substrate Material</b>   | <b>Substrate Construction</b> |
| 1  | Three-way catalyst       | Palladium + Rhodium                                      | Ceramic   | Monolith                      |
| 2  | Three-way catalyst       | Platinum + Palladium + Rhodium                           | Ceramic   | Monolith                      |
| 3  | Three-way catalyst       | Palladium + Rhodium                                      | Ceramic   | Monolith                      |
| 4  | Three-way catalyst       | Platinum + Palladium + Rhodium                           | Ceramic   | Monolith                      |
| 5  | Three-way catalyst       | Platinum + Rhodium                                       | Ceramic   | Monolith                      |
| 6  | Three-way catalyst       | Platinum + Rhodium                                       | Ceramic   | Monolith                      |
| <b>Mfr After Treatment Device (ATD) Comments</b> | Three-way catalyst       |  |   |                               |
| <b>Direct Ozone Reduction (DOR) Device</b>       | Not Equipped             |  |   |                               |
| <b>Mfr Emission Control Device Comments</b>      | --                       |  |   |                               |

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|   |                     |   |              |                |                |                              |                                  |                                 |                                     |                              |
|---|---------------------|---|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | TFMXT03.51F1        | <b>Evaporative/Refueling Family</b>                     | TFMXR0295LDG |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 1</b>            |                     |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 3.5                 | <b>Engine Rated Horsepower</b>                          | 430          |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Inlet Valves Per Cylinder</b>      | 2                   | <b>Number of Exhaust Valves Per Cylinder</b>            | 2            |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Method</b>                    | Turbocharged        | <b>Number of Air Aspiration Devices</b>                 | 2            |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Device Configuration</b>      | Parallel            | <b>Charge Air Cooler Type</b>                           | Air          |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Drive Method(s)</b>           | Mechanical          |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation</b>                    | No                  |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation Description</b>        | --                  |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing</b>                    | Yes                 |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing System Description</b> | TiVCT               |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | No                  |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | --                  |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 4                   | <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 oxygen       | <b>Air/Fuel Sensor # 3 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 4 Type</b>                 | Heated oxygen       | <b>Air/Fuel Sensor # 4 Description</b>                  | --           |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Air/Fuel Sensor Comments</b>             | --                  |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Exhaust Gas Recirculation</b>                | Yes                 | <b>Cooled Exhaust Gas Recirculation</b>                 | Yes          |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | Electronic/Electric | <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>        | 3.5L F150 FHEV      |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <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  | SFMX10086932        | SFMX91005984  | SFMX10086934 | SFMX10086931   | SFMX91005985   | 20                           | 228.2                            | 0                               | 286.1                               | 1                            |
| Electricity                                     | --                  | --  | --           | --             | --             | --                           | --                               | --                              | --                                  | --                           |
| <b>SFTP LEV-III Official Test Numbers</b>       |                     |   |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group Fuel</b>                          | <b>FTP</b>          | <b>US06</b>   | <b>SC03</b>  |                |                |                              |                                  |                                 |                                     |                              |
| Electricity                                     | --                  | --  | --           |                |                |                              |                                  |                                 |                                     |                              |
| Gasoline  | SFMX10086932        | SFMX91005984  | SFMX10086934 |                |                |                              |                                  |                                 |                                     |                              |

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|  |                                |   |              |
|--|--------------------------------|---|--------------|
| <b>Test Group</b>  | TFMXT03.51F1                   | <b>Evaporative/Refueling Family</b>                 | TFMXR0295LDG |
| <b>Official Charge Depleting Test Numbers</b>            |                                |   |              |
| <b>Test Group Fuel</b>                                   | <b>UDDS</b>                    | <b>Highway</b>                                      |              |
| Gasoline   | --                             | --  |              |
| <b>Hybrid Electric Vehicle And Fuel Cell Information</b> |                                |   |              |
| <b>Rechargeable Energy Storage System</b>                | Battery(s)                     | <b>Rechargeable Energy Storage System, if Other</b> | --           |
| <b>Battery Type</b>                                      | Lithium Ion                    | <b>Number of Battery Packs</b>                      | 1            |
| <b>Total Voltage of Battery Packs</b>                    | 281                            | <b>Battery Energy Capacity</b>                      | 5            |
| <b>Battery Specific Energy</b>                           | 36.8                           | <b>Battery Charger Type</b>                         | On-Board     |
| <b>Number of Capacitors</b>                              | --                             | <b>Capacitor Rating (In Farads)</b>                 | --           |
| <b>Mfr Capacitor Comments</b>                            | --                             |   |              |
| <b>Hydraulic System Description</b>                      | --                             |   |              |
| <b>Regenerative Braking Type</b>                         | Electrical Regen Brake         |   |              |
| <b>Regenerative Braking Source</b>                       | Both                           | <b>Driver Controlled Regenerative Braking</b>       | No           |
| <b>Mfr Regenerative Braking Description</b>              | --                             |   |              |
| <b>Drive Motor(s)/Generator(s)</b>                       | 1                              |   |              |
| <b>Motor/Generator Type 1</b>                            | DC Permanent Magnet, brushless | <b>Rated Motor/Generator Power</b>                  | 35           |
| <b>Mfr Fuel Cell Description</b>                         | --                             |   |              |
| <b>Fuel Cell On-Board H2 Storage Capacity (kg)</b>       | --                             | <b>Usable H2 Fill Capacity (kg)</b>                 | --           |
| <b>Mfr Hybrid Electric/ Electric Vehicle Comments</b>    | --                             |   |              |

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| Test Group   | TFMXT03.51F1  | Evaporative/Refueling Family                   | TFMXR0295LDG            |                        |              |      |   |                |             |   |                   |          |
|--|---|--|-------------------------|------------------------|--------------|------|---|----------------|-------------|---|-------------------|----------|
| <b>Emission Data Vehicle Information</b>   |   |  |                         |                        |              |      |   |                |             |   |                   |          |
| Vehicle ID / Configuration   | MFD1-3.5-J-945 / 0  | Manufacturer Vehicle Configuration Number      | 0                       |                        |              |      |   |                |             |   |                   |          |
| Original Test Group Name   | MFMXT03.51F1  | Original Evaporative/Refueling Family          | MFMXR0295LDG            |                        |              |      |   |                |             |   |                   |          |
| Original Test Vehicle Model Year   | 2021  |  |                         |                        |              |      |   |                |             |   |                   |          |
| <b>Vehicle Model</b>   |   |  |                         |                        |              |      |   |                |             |   |                   |          |
| Represented Test Vehicle Make  | Ford  | Represented Test Vehicle Model                 | F150 FHEV               |                        |              |      |   |                |             |   |                   |          |
| <b>Leak Family Details</b>   |   |  |                         |                        |              |      |   |                |             |   |                   |          |
| Leak Family Identifier   | --  | Leak Family Name                               | --                      |                        |              |      |   |                |             |   |                   |          |
| <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                                       |                         |                        |              |      |   |                |             |   |                   |          |
| Hybrid Indicator   | Yes   |  |                         |                        |              |      |   |                |             |   |                   |          |
| Multiple Fuel Storage  | --  | Multiple Fuel Combustion                       | --                      |                        |              |      |   |                |             |   |                   |          |
| Fuel Cell Indicator  | No  | Rechargeable Energy Storage System Indicator   | Yes                     |                        |              |      |   |                |             |   |                   |          |
| Rechargeable Energy Storage System   | Battery(s)  | Rechargeable Energy Storage System, if 'Other' | --                      |                        |              |      |   |                |             |   |                   |          |
| Off-board charge Capable Indicator   | No  |  |                         |                        |              |      |   |                |             |   |                   |          |
| Odometer Correction -- Initial   | 0   | Odometer Correction Factor                     | 1.03                    |                        |              |      |   |                |             |   |                   |          |
| Odometer Correction Sign   | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles |  |                         |                        |              |      |   |                |             |   |                   |          |
| Odometer Correction Units  | Miles   |  |                         |                        |              |      |   |                |             |   |                   |          |
| Engine Code  | MTFDCNNB00  | Rated Horsepower                               | 400                     |                        |              |      |   |                |             |   |                   |          |
| Displacement (liters)  | 3.5   |  |                         |                        |              |      |   |                |             |   |                   |          |
| Air Aspiration Method  | Turbocharged  | Air Aspiration Method, if 'Other'              |                         |                        |              |      |   |                |             |   |                   |          |
| Number of Air Aspiration Devices   | 2   | Air Aspiration Device Configuration            | Parallel                |                        |              |      |   |                |             |   |                   |          |
| Charge Air Cooler Type   | Air   | Drive Mode While Testing                       | Part-time 4-Wheel Drive |                        |              |      |   |                |             |   |                   |          |
| Shift Indicator Light Usage  | Not equipped  | Aged Emission Components                       | 150,000 (mi)            |                        |              |      |   |                |             |   |                   |          |
| Curb Weight (lbs)  | 5604  | Equivalent Test Weight (pounds)                | 6000                    |                        |              |      |   |                |             |   |                   |          |
| GVWR (lbs)   | 7350  | N/V Ratio                                      | 25.3                    |                        |              |      |   |                |             |   |                   |          |
| Axle Ratio   | 3.73  |  |                         |                        |              |      |   |                |             |   |                   |          |
| Transmission Type  | Semi-Automatic  | # of Transmission Gears                        | 10                      |                        |              |      |   |                |             |   |                   |          |
| Transmission Lockup  | Yes   | Creeper Gear                                   | No                      |                        |              |      |   |                |             |   |                   |          |

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| Test Group                         |   | TFMXT03.51F1        |                |         | Evaporative/Refueling Family |                |      | TFMXR0295LDG   |
|------------------------------------|---|---------------------|----------------|---------|------------------------------|----------------|------|--|
| <b>Dynamometer Coefficients:</b>   |   |                     |                |         |                              |                |      |  |
|                                    |   | 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                  | 55.69                                   | 0.2272              | 0.03972        | 9.53    | -0.11697                     | 0.03797        | 22.2 |  |
| Cold CO                            | 55.69                                   | 0.2272              | 0.03972        | 9.53    | -0.11697                     | 0.03797        | N/A  |  |
| US06                               | 55.69                                   | 0.2272              | 0.03972        | 9.53    | -0.11697                     | 0.03797        | N/A  |  |
| Emission Control Device Comments   | T3B70/ULEV70 SFTP-0.080 PM3 CB4 T3e/L3e |                     |                |         |                              |                |      |  |
| Manufacturer Test Vehicle Comments | F150 3.5L FHEV AWD                      |                     |                |         |                              |                |      |  |

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|  |  |                                       |   |
|--|--|---------------------------------------|---|
| <b>Test Group</b>                              | TFMXT03.51F1                               | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG  |
| <b>Test #</b>                                  | <b>MFMX10063823</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>                               | 02/06/2020                                 | <b>Fuel</b>                           | N/A   |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 49  |
| <b>Vehicle Class</b>                           | N/A  | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |   |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |   |
| <b>Test Start Odometer Reading</b>             | 4804                                       | <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)                   | 527.31661             | --   |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 16.48995              | 16.48995   |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 470.63506             | --   |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 18.46098              | 18.46098   |
| METHANE (CH4 - Methane)                            | 0.00495               | --   |
| CO (Carbon Monoxide)                               | 0.34786               | --   |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.205247              | --   |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.133732              | --   |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.224012              | --   |
| HCHO (Formaldehyde)                                | 0.000182              | --   |
| MFR FE (Manufacturer Fuel Economy)                 | 17.56144              | 17.56144   |
| NOX (Nitrogen Oxide)                               | 0.04493               | --   |
| N2O (Nitrous Oxide)                                | 0.00166               | --   |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0128905             | --   |
| NMOG (Non-methane organic gases)                   | 0.01414               | --   |
| PM (Particulate Matter)                            | 0.0009                | --   |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0175                | --   |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|---|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 496                   | 999                             |
| Optional Carbon-Related Exhaust Emissions | 496                   | 999                             |

### Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | TFMXT03.51F1 | <b>Evaporative/Refueling Family</b> | TFMXR0295LDG |
|-------------------|--------------|-------------------------------------|--------------|

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 495.00813             | --                    |

**Manufacturer Test Comments**      FTP & HWY FUL NMOG = 1.04 \* NMHC<sub>r</sub>

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| <b>Test #</b>                                  | MFMX10064216                               | <b>Test Procedure</b>                 | 23 - 2-day evap                                    |
| <b>Exhaust Test # for this Evap Test</b>       | MFMX10063823                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 03/05/2020                                 | <b>Fuel</b>                           | Gasoline   |
| <b>Fuel Batch ID</b>                           | --   | <b>Fuel Calibration Number</b>        | --   |
| <b>Vehicle Class</b>                           | N/A  | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |  |
| <b>Test Start Odometer Reading</b>             | 5105                                       | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | No   | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | No   |                                       |  |
| <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) |
|---|-----------------------|--|
| OMHCE (Organic material Hydrocarbon Equivalent)           | 0.1644                | --   |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.1644                | --   |

**Manufacturer Test Comments**      2 Day EVAP THC x 1.08

| 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 | 0.1644         | 0.0028 | 0.167               | 0.5      | Pass      |
| CA                   | 150,000 miles | California LEV-III Zero Evap (Option 2) | OMHCE          | 0.1644         | 0.0028 | 0.167               | 0.5      | Pass      |

### Certification Summary Information Report

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| <b>Test Group</b>                              | TFMXT03.51F1                               | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG                                       |
| <b>Test #</b>                                  | <b>MFMX10065306</b>                        | <b>Test Procedure</b>                 | <b>34 - Federal fuel 3-day evap</b>                |
| <b>Exhaust Test # for this Evap Test</b>       | MFMX10063823                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 05/29/2020                                 | <b>Fuel</b>                           | Gasoline   |
| <b>Fuel Batch ID</b>                           | --   | <b>Fuel Calibration Number</b>        | --   |
| <b>Vehicle Class</b>                           | N/A  | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |  |
| <b>Test Start Odometer Reading</b>             | 5232                                       | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | No   | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | No   |                                       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>           | No   |

**Test Results**

| Test Result Name   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| <b>OMHCE (Organic material Hydrocarbon Equivalent)</b>           | 0.215                 | --   |
| <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b> | 0.215                 | --   |

**Manufacturer Test Comments**

Measured NMOG

| 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 | 0.215          | 0.0028 | 0.218               | 0.5      | Pass      |
| CA                   | 150,000 miles | California LEV-III Zero Evap (Option 2) | OMHCE          | 0.215          | 0.0028 | 0.218               | 0.5      | Pass      |

### Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | TFMXT03.51F1 | <b>Evaporative/Refueling Family</b> | TFMXR0295LDG |
|-------------------|--------------|-------------------------------------|--------------|

|  |   |                                       |  |
|--|---|---------------------------------------|--|
| <b>Test #</b>                                  | MFMX10064215  | <b>Test Procedure</b>                 | 24 - Federal fuel refueling test (ORVR)            |
| <b>Exhaust Test # for this Evap Test</b>       | MFMX10063823  | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 03/03/2020  | <b>Fuel</b>                           | Gasoline   |
| <b>Fuel Batch ID</b>                           | --  | <b>Fuel Calibration Number</b>        | --   |
| <b>Vehicle Class</b>                           | N/A   | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL  |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                       |  |
| <b>Test Start Odometer Reading</b>             | 5160  | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | No  | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | --  |                                       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)                               | <b>Road Speed Fan Usage</b>           | Yes  |

**Test Results**

| Test Result Name   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| <b>OMHCE (Organic material Hydrocarbon Equivalent)</b>           | 0.00688               | --   |
| <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b> | 0.00688               | --   |

**Manufacturer Test Comments**                      ORVR TEST

| 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 | 0.007          | 0.003  | 0.01                | 0.2      | Pass      |
| CA                   | 150,000 miles | California LEV-III Zero Evap (Option 2) | OMHCE          | 0.007          | 0.003  | 0.01                | 0.2      | Pass      |

### Certification Summary Information Report

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| <b>Test Group</b>                              | TFMXT03.51F1                               | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG                                       |
| <b>Test #</b>                                  | <b>MFMX10065305</b>                        | <b>Test Procedure</b>                 | <b>32 - Federal Fuel Running Loss</b>              |
| <b>Exhaust Test # for this Evap Test</b>       | MFMX10063823                               | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 05/29/2020                                 | <b>Fuel</b>                           | Gasoline   |
| <b>Fuel Batch ID</b>                           | --   | <b>Fuel Calibration Number</b>        | --   |
| <b>Vehicle Class</b>                           | N/A  | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |  |
| <b>Test Start Odometer Reading</b>             | 5243                                       | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | No   | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | No   |                                       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>           | No   |

**Test Results**

| Test Result Name   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| <b>OMHCE (Organic material Hydrocarbon Equivalent)</b>           | 0                     | --   |
| <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b> | 0                     | --   |

**Manufacturer Test Comments**                      Measured NMOG

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



## Certification Summary Information Report

| Test Group                         |         | TFMXT03.51F1        |                |         | Evaporative/Refueling Family |                |      | TFMXR0295LDG   |
|------------------------------------|---------|---------------------|----------------|---------|------------------------------|----------------|------|--|
| <b>Dynamometer Coefficients:</b>   |         |                     |                |         |                              |                |      |  |
|                                    |         | 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                  | 36.08   | 0.58                | 0.03296        | -23.95  | 0.378                        | 0.02999        | 19.7 |  |
| Cold CO                            | 36.08   | 0.58                | 0.03296        | -23.95  | 0.378                        | 0.02999        | N/A  |  |
| US06                               | 36.08   | 0.58                | 0.03296        | -23.95  | 0.378                        | 0.02999        | N/A  |  |
| Emission Control Device Comments   | --      |                     |                |         |                              |                |      |  |
| Manufacturer Test Vehicle Comments | --      |                     |                |         |                              |                |      |  |

## Certification Summary Information Report

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| <b>Test Group</b>                              | TFMXT03.51F1                               | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG                               |
| <b>Test #</b>                                  | <b>SFMX10086931</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>                               | 06/30/2024                                 | <b>Fuel</b>                           | Gasoline                                   |
| <b>Fuel Batch ID</b>                           | 375-B                                      | <b>Fuel Calibration Number</b>        | 54   |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                            |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | --   |                                       |  |
| <b>Test Start Odometer Reading</b>             | 4011                                       | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | Yes  | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | Yes  |                                       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>           | Yes  |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 760.22096             | --   |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 11.30785              | 11.30785   |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 538.40592             | --   |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 16.09949              | 16.09949   |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 512.91203             | --   |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 16.88469              | 16.88469   |
| METHANE (CH4 - Methane)                            | 0.01801               | --   |
| CO (Carbon Monoxide)                               | 0.61134               | --   |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.2588               | --   |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.0183               | --   |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.8996                | --   |
| MFR FE (Manufacturer Fuel Economy)                 | 15                    | 15   |
| NOX (Nitrogen Oxide)                               | 0.038132              | --   |
| N2O (Nitrous Oxide)                                | 0.01                  | --   |
| HC-NM (Non-methane Hydrocarbon)                    | 0.1049                | --   |
| NMOG (Non-methane organic gases)                   | 0.109134              | --   |
| HC-TOTAL (Total Hydrocarbon)                       | 0.12416               | --   |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 578                   | --                              |

### Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | TFMXT03.51F1 | <b>Evaporative/Refueling Family</b> | TFMXR0295LDG |
|-------------------|--------------|-------------------------------------|--------------|

|                         |                              |                              |
|-------------------------|------------------------------|------------------------------|
| <b>Test Result Name</b> | <b>Unrounded Test Result</b> | <b>Verify Calculated CO2</b> |
| Carbon dioxide          | 577.30936                    | --                           |

**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 50     | CO            | 0.61           | --  | --               | --                       | --     | --      | 0.6                 | 12.5     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 50     | HC-NM         | 0.1            | --  | --               | --                       | --     | --      | 0.1                 | 0.4      | Pass      |
| CA                   | 50,000 miles  | California LEV-III ULEV50 | CO            | 0.61           | --  | --               | --                       | --     | --      | 0.6                 | 12.5     | Pass      |

## Certification Summary Information Report

|  |  |                                       |   |
|--|--|---------------------------------------|---|
| <b>Test Group</b>                              | TFMXT03.51F1                               | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG  |
| <b>Test #</b>                                  | <b>SFMX10086932</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>                               | 06/27/2024                                 | <b>Fuel</b>                           | Gasoline  |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 88  |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |   |
| <b>E10 Evaporative Test Measurement Method</b> | --   |                                       |   |
| <b>Test Start Odometer Reading</b>             | 3945                                       | <b>Odometer Units</b>                 | M   |
| <b>4WD Test Dyno</b>                           | Yes  | <b>Diesel Adjustment Factor Usage</b> | --  |
| <b>State of Charge Delta</b>                   | Yes  |                                       |   |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>           | Yes   |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 481.03183             | --   |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 18.11638              | 18.11638   |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 445.81934             | --   |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 19.55757              | 19.55757   |
| METHANE (CH4 - Methane)                            | 0.00555               | --   |
| CO (Carbon Monoxide)                               | 0.13582               | --   |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.35                 | --   |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.18                 | --   |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.14                 | --   |
| HCHO (Formaldehyde)                                | 0.000239              | --   |
| MFR FE (Manufacturer Fuel Economy)                 | 18.9                  | 18.9   |
| NOX (Nitrogen Oxide)                               | 0.010249              | --   |
| N2O (Nitrous Oxide)                                | 0.00016               | --   |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0071                | --   |
| NMOG (Non-methane organic gases)                   | 0.007368              | --   |
| PM (Particulate Matter)                            | 0.001039              | --   |
| HC-TOTAL (Total Hydrocarbon)                       | 0.01228               | --   |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 461                   | 999                             |

## Certification Summary Information Report

| Test Group                 |               | TFMXT03.51F1              |               |                | Evaporative/Refueling Family |                  |                          |                       |         | TFMXR0295LDG        |          |           |
|----------------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|-----------------------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name          |               |                | Unrounded Test Result        |                  |                          | Verify Calculated CO2 |         |                     |          |           |
|                            |               | Carbon dioxide            |               |                | 460.96071                    |                  |                          | --                    |         |                     |          |           |
| 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                        | 150,000 miles | Federal Tier 3 Bin 50     | CO            | 0.14           | --                           | --               | --                       | --                    | --      | 0.1                 | 1.7      | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | CO-COMP       | 0.09           | --                           | --               | --                       | --                    | --      | 0.1                 | 4.2      | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | CREE          | 999            | --                           | --               | --                       | 0                     | --      | 999                 | --       | --        |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | HCHO          | 0.0002         | --                           | --               | --                       | --                    | --      | 0                   | 0.004    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | METHANE       | 0.0056         | --                           | --               | --                       | --                    | --      | 0.006               | 0.030    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | N2O           | 0.0002         | --                           | --               | --                       | --                    | --      | 0                   | 0.010    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | NMOG          | 0.0074         | --                           | 1.1              | --                       | --                    | --      | 0.007               | 999.999  | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | NMOG+NOX      | 0.0176         | --                           | --               | --                       | --                    | --      | 0.018               | 0.050    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | NMOG+NOX-COMP | 0.0223         | --                           | --               | --                       | --                    | --      | 0.022               | 0.050    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | NOX           | 0.0102         | --                           | --               | --                       | --                    | --      | 0.01                | 999.999  | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 50     | PM            | 0.001          | --                           | --               | --                       | --                    | --      | 0.001               | 0.003    | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | CO            | 0.14           | --                           | --               | --                       | --                    | --      | 0.1                 | 1.7      | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | CO-COMP       | 0.09           | --                           | --               | --                       | --                    | --      | 0.1                 | 4.2      | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | HCHO          | 0.0002         | --                           | --               | --                       | --                    | --      | 0                   | 0.004    | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | NMOG          | 0.0074         | --                           | 1.1              | --                       | --                    | --      | 0.007               | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX      | 0.0176         | --                           | --               | --                       | --                    | --      | 0.018               | 0.050    | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX-COMP | 0.0223         | --                           | --               | --                       | --                    | --      | 0.022               | 0.050    | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | NOX           | 0.0102         | --                           | --               | --                       | --                    | --      | 0.01                | 999.999  | Pass      |
| CA                         | 150,000 miles | California LEV-III ULEV50 | PM            | 0.001          | --                           | --               | --                       | --                    | --      | 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>                              | TFMXT03.51F1                               | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG                                       |
| <b>Test #</b>                                  | <b>SFMX91005985</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>                               | 07/31/2024                                 | <b>Fuel</b>                           | Gasoline   |
| <b>Fuel Batch ID</b>                           | 28637                                      | <b>Fuel Calibration Number</b>        | 1  |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | --   |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | --   |                                       |  |
| <b>Test Start Odometer Reading</b>             | 4117                                       | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | Yes  | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | Yes  |                                       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>           | Yes  |

## Test Results

| Test Result Name  | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|---|-----------------------|--|
| <b>METHANE (CH4 - Methane)</b>                            | 0.001329              | --   |
| <b>CO (Carbon Monoxide)</b>                               | 0.0092313             | --   |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | 4.3275576             | --   |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | 0.0166088             | --   |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | 6.3118238             | --   |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 26.785244             | --   |
| <b>NOX (Nitrogen Oxide)</b>                               | 0.0022687             | --   |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --   |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0.0000405             | --   |
| <b>NMOG (Non-methane organic gases)</b>                   | 0.0000417             | --   |
| <b>HC-TOTAL (Total Hydrocarbon)</b>                       | 0.0013509             | --   |

| Test Result Name                        | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|---|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b> | 9999.9999999          | 999                             |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 323.725647            | --                    |

**Manufacturer Test Comments** None

## Certification Summary Information Report

| Test Group           |               | TFMXT03.51F1              |               |                |     | Evaporative/Refueling Family |                          |        |         | TFMXR0295LDG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 50     | CREE          | 999            | --  | --                           | --                       | 0      | --      | 999                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 50     | NMOG          | 0              | --  | 1.03                         | --                       | --     | --      | 0                   | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 50     | NMOG+NOX      | 0.0023         | --  | --                           | --                       | --     | --      | 0.002               | 0.050    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 50     | NOX           | 0.0023         | --  | --                           | --                       | --     | --      | 0.002               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG          | 0              | --  | 1.03                         | --                       | --     | --      | 0                   | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX      | 0.0023         | --  | --                           | --                       | --     | --      | 0.002               | 0.050    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NOX           | 0.0023         | --  | --                           | --                       | --     | --      | 0.002               | 999.999  | Pass      |

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

## Certification Summary Information Report

|  |   |                                       |  |
|--|---|---------------------------------------|--|
| <b>Test Group</b>                              | TFMXT03.51F1                              | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG                                       |
| <b>Test #</b>                                  | <b>SFMX91005984</b>                       | <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>                               | 07/31/2024                                | <b>Fuel</b>                           | N/A  |
| <b>Fuel Batch ID</b>                           | 28637                                     | <b>Fuel Calibration Number</b>        | 1  |
| <b>Vehicle Class</b>                           | N/A                                       | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | --  |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | --  |                                       |  |
| <b>Test Start Odometer Reading</b>             | 4142                                      | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | Yes                                       |                                       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes  |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 737.4973755           | --   |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 999                   | --   |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 402.1809082           | --   |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 999                   | --   |
| METHANE (CH4 - Methane)                            | 0.0094267             | --   |
| CO (Carbon Monoxide)                               | 0.1116491             | --   |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -1.5176582            | --   |
| DT-EER (Drive Trace Energy Economy Rating)         | -1.3996508            | --   |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -2.6785178            | --   |
| MFR FE (Manufacturer Fuel Economy)                 | 999                   | --   |
| NOX (Nitrogen Oxide)                               | 0.033608              | --   |
| N2O (Nitrous Oxide)                                | 0.0105971             | --   |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0158862             | --   |
| NMOG (Non-methane organic gases)                   | 0.0163628             | --   |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0251809             | --   |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 477.2978516           | --                    |

## Manufacturer Test Comments

None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2

## Certification Summary Information Report

|  |   |                                       |  |
|--|---|---------------------------------------|--|
| <b>Test Group</b>                              | TFMXT03.51F1                              | <b>Evaporative/Refueling Family</b>   | TFMXR0295LDG                                       |
| <b>Test #</b>                                  | <b>SFMX10086934</b>                       | <b>Test Procedure</b>                 | <b>95 - SC03</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>                               | 06/28/2024                                | <b>Fuel</b>                           | N/A  |
| <b>Fuel Batch ID</b>                           | 373-B                                     | <b>Fuel Calibration Number</b>        | 88   |
| <b>Vehicle Class</b>                           | N/A                                       | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                      |                                       |  |
| <b>E10 Evaporative Test Measurement Method</b> | --  |                                       |  |
| <b>Test Start Odometer Reading</b>             | 3996                                      | <b>Odometer Units</b>                 | M  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --   |
| <b>State of Charge Delta</b>                   | Yes                                       |                                       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes  |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| METHANE (CH4 - Methane)                            | 0.00696               | --   |
| CO (Carbon Monoxide)                               | 0.03149               | --   |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.7037               | --   |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.1713               | --   |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.8558               | --   |
| MFR FE (Manufacturer Fuel Economy)                 | 19                    | 19   |
| NOX (Nitrogen Oxide)                               | 0.003672              | --   |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0021                | --   |
| NMOG (Non-methane organic gases)                   | 0.002223              | --   |
| HC-TOTAL (Total Hydrocarbon)                       | 0.00958               | --   |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 458                   | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 457.83177             | --                    |

Manufacturer Test Comments --

## Certification Summary Information Report

| Test Group  | TFMXT03.51F1                                       | Evaporative/Refueling Family  | TFMXR0295LDG |
|---|--|---|--------------|
| <b>Fuel Properties</b>  |  |   |              |
| <b>Fuel Batch ID</b>  | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>  | <b>88</b>    |
| <b>Test Fuel Type</b>   | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>  | 06/25/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 06/25/2024   | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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> | 17872        |
| <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> | 0.828  | <b>Weight Fraction CO2</b>  | --           |
| <b>Fuel Batch ID</b>  | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>  | <b>49</b>    |
| <b>Test Fuel Type</b>   | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>  | 01/30/2020   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 01/30/2020   | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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>  | 0.751        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.5  | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17945        |
| <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>28637</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>  | 08/26/2021   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 08/26/2021   | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <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>  | 0.75         |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.6  | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17894        |
| <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>375-B</b>                                       | <b>Fuel Calibration Number</b>  | <b>54</b>    |
| <b>Test Fuel Type</b>   | 28 - Cold CO E10 Regular Gasoline (Tier 3)         | <b>Fuel Batch Calibration Date</b>  | 06/28/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 06/28/2024   | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |

## Certification Summary Information Report

| <b>Test Group</b>   | <b>TFMXT03.51F1</b> | <b>Evaporative/Refueling Family</b>                                       | <b>TFMXR0295LDG</b> |
|---|---------------------|---|---------------------|
| <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>  | 0.743               |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.5                 | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17918               |
| <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> | 0.828               | <b>Weight Fraction CO2</b>  | --                  |

**Certification Summary Information Report**

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | TFMXT03.51F1 | <b>Evaporative/Refueling Family</b> | TFMXR0295LDG |
|-------------------|--------------|-------------------------------------|--------------|

**Consolidated List of Standards**

**Exhaust Standards**

|                      |  |                         |   |
|----------------------|--|-------------------------|---|
| <b>Cert Region</b>   | Federal                                    | <b>Cert/In-Use Code</b> | Both                                    |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>Standard Level</b>   | Federal Tier 3 Bin 50                   |
| <b>Fuel</b>          | Gasoline                                   | <b>Test Procedure</b>   | 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            | --             | --  | --          | --                              | --                                | --      | --     | 1.7     |
| 150,000 miles | CO-COMP       | --             | --  | --          | --                              | --                                | --      | --     | 4.2     |
| 150,000 miles | CREE          | --             | --  | --          | --                              | --                                | --      | 0      | 999.999 |
| 150,000 miles | HCHO          | --             | --  | --          | --                              | --                                | --      | --     | 0.004   |
| 150,000 miles | METHANE       | --             | --  | --          | --                              | --                                | --      | --     | 0.030   |
| 150,000 miles | N2O           | --             | --  | --          | --                              | --                                | --      | --     | 0.010   |
| 150,000 miles | NMOG          | --             | --  | 1.1         | --                              | --                                | --      | --     | 999.999 |
| 150,000 miles | NMOG+NOX      | --             | --  | --          | --                              | --                                | 1       | --     | 0.050   |
| 150,000 miles | NMOG+NOX-COMP | --             | --  | --          | --                              | --                                | --      | --     | 0.050   |
| 150,000 miles | NOX           | --             | --  | --          | --                              | --                                | --      | --     | 999.999 |
| 150,000 miles | OPT-CREE      | --             | --  | --          | --                              | --                                | --      | 0      | 999.999 |
| 150,000 miles | PM            | --             | --  | --          | --                              | --                                | --      | --     | 0.003   |

|                      |  |                         |                       |
|----------------------|--|-------------------------|-----------------------|
| <b>Cert Region</b>   | Federal                                    | <b>Cert/In-Use Code</b> | Both                  |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>Standard Level</b>   | Federal Tier 3 Bin 50 |
| <b>Fuel</b>          | Gasoline                                   | <b>Test Procedure</b>   | HWFE                  |

| Useful Life   | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std     |
|---------------|---------------|----------------|-----|-------------|---------------------------------|-----------------------------------|---------|--------|---------|
| 150,000 miles | CREE          | --             | --  | --          | --                              | --                                | --      | 0      | 999.999 |
| 150,000 miles | NMOG          | --             | --  | 1.03        | --                              | --                                | --      | --     | 999.999 |
| 150,000 miles | NMOG+NOX      | --             | --  | --          | --                              | --                                | 1       | --     | 0.050   |
| 150,000 miles | NOX           | --             | --  | --          | --                              | --                                | --      | --     | 999.999 |
| 150,000 miles | OPT-CREE      | --             | --  | --          | --                              | --                                | --      | 0      | 999.999 |

### Certification Summary Information Report

|                      |                      |  |            |                    |  |  |                |   |            |  |
|----------------------|----------------------|--|------------|--------------------|--|--|----------------|---|------------|--|
| <b>Test Group</b>    |                      | TFMXT03.51F1                               |            |                    | <b>Evaporative/Refueling Family</b>    |  |                | TFMXR0295LDG                            |            |  |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |  |                | Both                                    |            |  |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |  |                | California LEV-III ULEV50               |            |  |
| <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                   | --   | --         | --                 | --                                     | --                                       | --             | --                                      | 1.7        |  |
| 150,000 miles        | CO-COMP              | --   | --         | --                 | --                                     | --                                       | --             | --                                      | 4.2        |  |
| 150,000 miles        | HCHO                 | --   | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |  |
| 150,000 miles        | NMOG                 | --   | --         | 1.1                | --                                     | --                                       | --             | --                                      | 999.999    |  |
| 150,000 miles        | NMOG+NOX             | --   | --         | --                 | --                                     | --                                       | 1              | --                                      | 0.050      |  |
| 150,000 miles        | NMOG+NOX-COMP        | --   | --         | --                 | --                                     | --                                       | --             | --                                      | 0.050      |  |
| 150,000 miles        | NOX                  | --   | --         | --                 | --                                     | --                                       | --             | --                                      | 999.999    |  |
| 150,000 miles        | PM                   | --   | --         | --                 | --                                     | --                                       | --             | --                                      | 0.003      |  |

|                      |                      |  |            |                    |  |  |                |                       |            |  |
|----------------------|----------------------|--|------------|--------------------|--|--|----------------|-----------------------|------------|--|
| <b>Cert Region</b>   |                      | Federal                                    |            |                    | <b>Cert/In-Use Code</b>                |  |                | Both                  |            |  |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |  |                | Federal Tier 3 Bin 50 |            |  |
| <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                   | --   | --         | --                 | --                                     | --                                       | --             | --                    | 12.5       |  |
| 120,000 miles        | HC-NM                | --   | --         | --                 | --                                     | --                                       | --             | --                    | 0.4        |  |

|                      |                      |  |            |                    |  |  |                |                           |            |  |
|----------------------|----------------------|--|------------|--------------------|--|--|----------------|---------------------------|------------|--|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |  |                | Both                      |            |  |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |  |                | California LEV-III ULEV50 |            |  |
| <b>Fuel</b>          |                      | Gasoline                                   |            |                    | <b>Test Procedure</b>                  |  |                | HWFE                      |            |  |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                      | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |  |
| 150,000 miles        | NMOG                 | --   | --         | 1.03               | --                                     | --                                       | --             | --                        | 999.999    |  |
| 150,000 miles        | NMOG+NOX             | --   | --         | --                 | --                                     | --                                       | 1              | --                        | 0.050      |  |
| 150,000 miles        | NOX                  | --   | --         | --                 | --                                     | --                                       | --             | --                        | 999.999    |  |

### Certification Summary Information Report

|                      |                      |  |            |                    |  |  |                |                           |            |  |
|----------------------|----------------------|--|------------|--------------------|--|--|----------------|---------------------------|------------|--|
| <b>Test Group</b>    |                      | TFMXT03.51F1                               |            |                    | <b>Evaporative/Refueling Family</b>    |  |                | TFMXR0295LDG              |            |  |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |  |                | Both                      |            |  |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |  |                | California LEV-III ULEV50 |            |  |
| <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                   | --   | --         | --                 | --                                     | --                                       | --             | --                        | 0.006      |  |

|                      |                      |  |            |                    |  |  |                |                           |            |  |
|----------------------|----------------------|--|------------|--------------------|--|--|----------------|---------------------------|------------|--|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |  |                | Both                      |            |  |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |  |                | California LEV-III ULEV50 |            |  |
| <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                   | --   | --         | --                 | --                                     | --                                       | --             | --                        | 12.5       |  |

|                      |                      |  |            |                    |  |  |                |                       |            |  |
|----------------------|----------------------|--|------------|--------------------|--|--|----------------|-----------------------|------------|--|
| <b>Cert Region</b>   |                      | Federal                                    |            |                    | <b>Cert/In-Use Code</b>                |  |                | Both                  |            |  |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |  |                | Federal Tier 3 Bin 50 |            |  |
| <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                   | --   | --         | --                 | --                                     | --                                       | --             | --                    | 0.006      |  |

**Evaporative/Refueling Standards**

|                                     |                    |                         |                       |            |                       |  |  |   |  |  |
|-------------------------------------|--------------------|-------------------------|-----------------------|------------|-----------------------|--|--|---|--|--|
| <b>Evaporative/Refueling Family</b> |                    | TFMXR0295LDG            |                       |            | <b>Cert Region</b>    |  |  | California + CAA Section 177 states     |  |  |
| <b>Cert/In-Use Code</b>             |                    | Both                    |                       |            | <b>Standard Level</b> |  |  | California LEV-III Zero Evap (Option 2) |  |  |
| <b>Test Procedure</b>               |                    | Federal fuel 3-day evap |                       |            |                       |  |  |   |  |  |
| <b>Fuel</b>                         | <b>Useful Life</b> | <b>Emission Name</b>    | <b>Rounded Result</b> | <b>Std</b> | <b>Add DF</b>         |  |  |   |  |  |
| Gasoline                            | 150,000 miles      | OMHCE                   | --                    | 0.500      | 0.0028                |  |  |   |  |  |

### Certification Summary Information Report

|                                     |                                    |                                     |  |            |               |
|-------------------------------------|------------------------------------|-------------------------------------|--|------------|---------------|
| <b>Test Group</b>                   | TFMXT03.51F1                       | <b>Evaporative/Refueling Family</b> | TFMXR0295LDG   |            |               |
| <b>Evaporative/Refueling Family</b> | TFMXR0295LDG                       | <b>Cert Region</b>                  | California + CAA Section 177 states<br>California LEV-III Zero Evap (Option 2) |            |               |
| <b>Cert/In-Use Code</b>             | Both                               | <b>Standard Level</b>               |  |            |               |
| <b>Test Procedure</b>               | Federal fuel refueling test (ORVR) |                                     |  |            |               |
| <b>Fuel</b>                         | <b>Useful Life</b>                 | <b>Emission Name</b>                | <b>Rounded Result</b>  | <b>Std</b> | <b>Add DF</b> |
| Gasoline                            | 150,000 miles                      | OMHCE                               | --   | 0.20       | 0.003         |
| <b>Evaporative/Refueling Family</b> | TFMXR0295LDG                       | <b>Cert Region</b>                  | Federal  |            |               |
| <b>Cert/In-Use Code</b>             | Both                               | <b>Standard Level</b>               | Federal Tier 3 Evap  |            |               |
| <b>Test Procedure</b>               | Federal Fuel Running Loss          |                                     |  |            |               |
| <b>Fuel</b>                         | <b>Useful Life</b>                 | <b>Emission Name</b>                | <b>Rounded Result</b>  | <b>Std</b> | <b>Add DF</b> |
| Gasoline                            | 150,000 miles                      | HC-TOTAL-EQUIV                      | --   | 0.05       | 0             |
| <b>Evaporative/Refueling Family</b> | TFMXR0295LDG                       | <b>Cert Region</b>                  | Federal  |            |               |
| <b>Cert/In-Use Code</b>             | Both                               | <b>Standard Level</b>               | Federal Tier 3 Evap  |            |               |
| <b>Test Procedure</b>               | Federal fuel refueling test (ORVR) |                                     |  |            |               |
| <b>Fuel</b>                         | <b>Useful Life</b>                 | <b>Emission Name</b>                | <b>Rounded Result</b>  | <b>Std</b> | <b>Add DF</b> |
| Gasoline                            | 150,000 miles                      | HC-TOTAL-EQUIV                      | --   | 0.20       | 0.003         |
| <b>Evaporative/Refueling Family</b> | TFMXR0295LDG                       | <b>Cert Region</b>                  | Federal  |            |               |
| <b>Cert/In-Use Code</b>             | Both                               | <b>Standard Level</b>               | Federal Tier 3 Evap  |            |               |
| <b>Test Procedure</b>               | Federal fuel 3-day evap            |                                     |  |            |               |
| <b>Fuel</b>                         | <b>Useful Life</b>                 | <b>Emission Name</b>                | <b>Rounded Result</b>  | <b>Std</b> | <b>Add DF</b> |
| Gasoline                            | 150,000 miles                      | HC-TOTAL-EQUIV                      | --   | 0.500      | 0.0028        |
| <b>Evaporative/Refueling Family</b> | TFMXR0295LDG                       | <b>Cert Region</b>                  | California + CAA Section 177 states<br>California LEV-III Zero Evap (Option 2) |            |               |
| <b>Cert/In-Use Code</b>             | Both                               | <b>Standard Level</b>               |  |            |               |
| <b>Test Procedure</b>               | Federal Fuel Running Loss          |                                     |  |            |               |
| <b>Fuel</b>                         | <b>Useful Life</b>                 | <b>Emission Name</b>                | <b>Rounded Result</b>  | <b>Std</b> | <b>Add DF</b> |
| Gasoline                            | 150,000 miles                      | OMHCE                               | --   | 0.05       | 0             |

## Certification Summary Information Report

|                                     |                    |                      |                                     |  |               |
|-------------------------------------|--------------------|----------------------|-------------------------------------|--|---------------|
| <b>Test Group</b>                   | TFMXT03.51F1       |                      | <b>Evaporative/Refueling Family</b> | TFMXR0295LDG   |               |
| <b>Evaporative/Refueling Family</b> | TFMXR0295LDG       |                      | <b>Cert Region</b>                  | California + CAA Section 177 states<br>California LEV-III Zero Evap (Option 2) |               |
| <b>Cert/In-Use Code</b>             | Both               |                      | <b>Standard Level</b>               |  |               |
| <b>Test Procedure</b>               | 2-day evap         |                      |                                     |  |               |
| <b>Fuel</b>                         | <b>Useful Life</b> | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>Std</b>   | <b>Add DF</b> |
| Gasoline                            | 150,000 miles      | OMHCE                | --                                  | 0.500  | 0.0028        |
| <b>Evaporative/Refueling Family</b> | TFMXR0295LDG       |                      | <b>Cert Region</b>                  | Federal  |               |
| <b>Cert/In-Use Code</b>             | Both               |                      | <b>Standard Level</b>               | Federal Tier 3 Evap  |               |
| <b>Test Procedure</b>               | 2-day evap         |                      |                                     |  |               |
| <b>Fuel</b>                         | <b>Useful Life</b> | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>Std</b>   | <b>Add DF</b> |
| Gasoline                            | 150,000 miles      | HC-TOTAL-EQUIV       | --                                  | 0.500  | 0.0028        |

## Certification Summary Information Report

| Test Group           | TFMXT03.51F1  | Evaporative/Refueling Family | TFMXR0295LDG   |
|----------------------|---|------------------------------|--|
| <b>Glossary</b>      |   |                              |  |
| <b>Useful Life</b>   |   |                              |  |
| 4                    | 4,000 miles   | 120                          | 120,000 miles  |
| 50                   | 50,000 miles  | 150                          | 150,000 miles  |
| 100                  | 100,000 miles   |                              |  |
| <b>Emission Name</b> |   |                              |  |
| HC-TOTAL             | Total Hydrocarbon   | AS-VOLT                      | Average System Voltage                                     |
| CO                   | Carbon Monoxide   | CO2 BAG 1                    | Bag 1 Carbon Dioxide                                       |
| CO2                  | Carbon dioxide  | CO2 BAG 2                    | Bag 2 Carbon Dioxide                                       |
| CREE                 | Carbon-Related Exhaust Emissions                                | CO2 BAG 3                    | Bag 3 Carbon Dioxide                                       |
| OPT-CREE             | Optional Carbon-Related Exhaust Emissions                       | CO2 BAG 4                    | Bag 4 Carbon Dioxide                                       |
| NOX                  | Nitrogen Oxide  | NMOG+NOX                     | Non-methane organic gases plus Nitrogen Oxides             |
| PM                   | Particulate Matter  | NMOG+NOX-COMP                | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |
| PM-COMP              | SFTP Composite Particulate Matter                               | DT-IWRR                      | Drive Trace Inertia Work Ratio Rating                      |
| HC-NM                | Non-methane Hydrocarbon   | DT-ASCR                      | Drive Trace Absolute Speed Change Rating                   |
| OMHCE                | Organic material Hydrocarbon Equivalent                         | DT-EER                       | Drive Trace Energy Economy Rating                          |
| OMNMHCE              | Organic material non-methane HC equivalent                      | COMB-CREE                    | Combined Carbon-Related Exhaust Emissions                  |
| NMOG                 | Non-methane organic gases                                       | COMB-OPT-CREE                | Combined Optional Carbon-Related Exhaust Emissions         |
| HCHO                 | Formaldehyde  | HC-TOTAL-EQUIV               | Total Hydrocarbon equivalent - Evap only                   |
| H3C2HO               | Acetaldehyde  | METHANE-COMB                 | Combined CH4 for HD 2b/3 vehicles only                     |
| HC-NM+NOX            | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | N2O-COMB                     | Combined Nitrous Oxide for HD 2b/3 vehicles only           |
| HC-NM+NOX-COMP       | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        | LEAK-DIA                     | Effective Leak Diameter (inches)                           |
| CO-COMP              | SFTP Composite Carbon Monoxide                                  | LEAK-GAS CAP                 | Gas Cap Leakage (cc/min)                                   |
| ETHANOL              | C2H5OH - Ethanol  | CO2-COMB                     | Combined Carbon Dioxide for HD 2b/3 Vehicles Only          |
| FE BAG 1             | Bag 1 Fuel Economy  | KW-HRS                       | Integrated DC KW-HRS                                       |
| FE BAG 2             | Bag 2 Fuel Economy  | CH4 BAG 1                    | Bag 1 Methane  |
| FE BAG 3             | Bag 3 Fuel Economy  | CH4 BAG 2                    | Bag 2 Methane  |
| FE BAG 4             | Bag 4 Fuel Economy  | CH4 BAG 3                    | Bag 3 Methane  |
| MFR FE               | Manufacturer Fuel Economy                                       | CH4 BAG 4                    | Bag 4 Methane  |
| HC                   | Hydrocarbon for Running Loss and ORVR                           | CO BAG 1                     | Bag 1 Carbon Monoxide                                      |
| METHANE              | CH4 - Methane   | CO BAG 2                     | Bag 2 Carbon Monoxide                                      |
| METHANOL             | CH3OH - Methanol  | CO BAG 3                     | Bag 3 Carbon Monoxide                                      |
| N2O                  | Nitrous Oxide   | CO BAG 4                     | Bag 4 Carbon Monoxide                                      |
| SPITBACK             | Spitback Hydrocarbon in grams                                   | NMOG BAG 1                   | Bag 1 Non-methane organic gases                            |
| AMP-HRS              | Integrated Amp-hours  | NMOG BAG 2                   | Bag 2 Non-methane organic gases                            |
| START-SOC            | System Start State of Charge Watt-hours                         | NMOG BAG 3                   | Bag 3 Non-methane organic gases                            |
| END-SOC              | System End State of Charge Watt-hours                           | NMOG BAG 4                   | Bag 4 Non-methane organic gases                            |
| ACT-DISTANCE         | Actual Distance Driven (miles)                                  |                              |  |

## Certification Summary Information Report

| Test Group                             | TFMXT03.51F1                                      | Evaporative/Refueling Family |  | TFMXR0295LDG |
|--|---|------------------------------|--|--------------|
| CA                                     | California + CAA Section 177 states               | FA                           | Federal  |              |
| <b>Exhaust Emission Standard Level</b> |   |                              |  |              |
| B1                                     | Federal Tier 2 Bin 1                              | T3B160                       | Federal Tier 3 Bin 160                               |              |
| B2                                     | Federal Tier 2 Bin 2                              | T3B125                       | Federal Tier 3 Bin 125                               |              |
| B3                                     | Federal Tier 2 Bin 3                              | T3B110                       | Federal Tier 3 Transitional Bin 110                  |              |
| B4                                     | Federal Tier 2 Bin 4                              | T3B85                        | Federal Tier 3 Transitional Bin 85                   |              |
| B5                                     | Federal Tier 2 Bin 5                              | T3SULEV30                    | Federal Tier 3 Transitional LEV-II SULEV30 Carryover |              |
| B6                                     | Federal Tier 2 Bin 6                              | T3B70                        | Federal Tier 3 Bin 70                                |              |
| B7                                     | Federal Tier 2 Bin 7                              | T3B50                        | Federal Tier 3 Bin 50                                |              |
| B8                                     | Federal Tier 2 Bin 8                              | T3B30                        | Federal Tier 3 Bin 30                                |              |
| B9                                     | Federal Tier 2 Bin 9                              | T3B20                        | Federal Tier 3 Bin 20                                |              |
| B10                                    | Federal Tier 2 Bin 10                             | T3B0                         | Federal Tier 3 Bin 0                                 |              |
| B11                                    | Federal Tier 2 Bin 11                             | HDV2B395                     | Federal Tier 3 HD Class 2b Transitional Bin 395      |              |
| HDV1                                   | HDV1 (Federal HD chassis Class 2b GVW 8501-10000) | HDV2B340                     | Federal Tier 3 HD Class 2b Transitional Bin 340      |              |
| HDV2                                   | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) | HDV2B250                     | Federal Tier 3 HD Class 2b Bin 250                   |              |
| L2                                     | California LEV-II LEV                             | HDV2B200                     | Federal Tier 3 HD Class 2b Bin 200                   |              |
| L2OP                                   | California LEV-II LEV Optional                    | HDV2B170                     | Federal Tier 3 HD Class 2b Bin 170                   |              |
| U2                                     | California LEV-II ULEV                            | HDV2B150                     | Federal Tier 3 HD Class 2b Bin 150                   |              |
| S2                                     | California LEV-II SULEV                           | HDV2B0                       | Federal Tier 3 HD Class 2b Bin 0                     |              |
| ZEV                                    | California ZEV                                    | HDV3B630                     | Federal Tier 3 HD Class 3 Transitional Bin 630       |              |
| OT                                     | Other   | HDV3B570                     | Federal Tier 3 HD Class 3 Transitional Bin 570       |              |
| T1                                     | Federal Tier 1                                    | HDV3B400                     | Federal Tier 3 HD Class 3 Bin 400                    |              |
| PZEV                                   | California PZEV                                   | HDV3B270                     | Federal Tier 3 HD Class 3 Bin 270                    |              |
| L2LEV160                               | California LEV-II LEV160                          | HDV3B230                     | Federal Tier 3 HD Class 3 Bin 230                    |              |
| L2ULEV125                              | California LEV-II ULEV125                         | HDV3B200                     | Federal Tier 3 HD Class 3 Bin 200                    |              |
| L2SULEV30                              | California LEV-II SULEV30                         | HDV3B0                       | Federal Tier 3 HD Class 3 Bin 0                      |              |
| L2LEV395                               | California LEV-II LEV395                          | L4SULEV100                   | California LEV-IV SULEV100                           |              |
| L2ULEV340                              | California LEV-II ULEV340                         | L4SULEV125                   | California LEV-IV SULEV125                           |              |
| L2LEV630                               | California LEV-II LEV630                          | L4SULEV15                    | California LEV-IV SULEV15                            |              |
| L2ULEV570                              | California LEV-II ULEV570                         | L4SULEV150                   | California LEV-IV SULEV150                           |              |
| L3LEV160                               | California LEV-III LEV160                         | L4SULEV170                   | California LEV-IV SULEV170                           |              |
| L3ULEV125                              | California LEV-III ULEV125                        | L4SULEV175                   | California LEV-IV SULEV175                           |              |
| L3ULEV70                               | California LEV-III ULEV70                         | L4SULEV20                    | California LEV-IV SULEV20                            |              |
| L3ULEV50                               | California LEV-III ULEV50                         | L4SULEV200                   | California LEV-IV SULEV200                           |              |
| L3SULEV30                              | California LEV-III SULEV30                        | L4SULEV230                   | California LEV-IV SULEV230                           |              |
| L3SULEV20                              | California LEV-III SULEV20                        | L4SULEV25                    | California LEV-IV SULEV25                            |              |
| L3LEV395                               | California LEV-III LEV395                         | L4SULEV30                    | California LEV-IV SULEV30                            |              |
| L3ULEV340                              | California LEV-III ULEV340                        | L4SULEV75                    | California LEV-IV SULEV75                            |              |
| L3ULEV250                              | California LEV-III ULEV250                        | L4SULEV85                    | California LEV-IV SULEV85                            |              |
| L3ULEV200                              | California LEV-III ULEV200                        | L4ULEV125                    | California LEV-IV ULEV125                            |              |

## Certification Summary Information Report

| Test Group                           |   | TFMXT03.51F1 | Evaporative/Refueling Family                             | TFMXR0295LDG              |
|--------------------------------------|---|--------------|--|---------------------------|
| L3SULEV170                           | California LEV-III SULEV170                                       |              | L4ULEV200  | California LEV-IV ULEV200 |
| L3SULEV150                           | California LEV-III SULEV150                                       |              | L4ULEV250  | California LEV-IV ULEV250 |
| L3LEV630                             | California LEV-III LEV630   |              | L4ULEV270  | California LEV-IV ULEV270 |
| L3ULEV570                            | California LEV-III ULEV570  |              | L4ULEV40   | California LEV-IV ULEV40  |
| L3ULEV400                            | California LEV-III ULEV400  |              | L4ULEV400  | California LEV-IV ULEV400 |
| L3ULEV270                            | California LEV-III ULEV270  |              | L4ULEV50   | California LEV-IV ULEV50  |
| L3SULEV230                           | California LEV-III SULEV230                                       |              | L4ULEV60   | California LEV-IV ULEV60  |
| L3SULEV200                           | California LEV-III SULEV200                                       |              | L4ULEV70   | California LEV-IV ULEV70  |
| <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                                  |                           |
| F                                    | 2-Wheel Drive, Front  | A            | All Wheel Drive  |                           |
| R                                    | 2-Wheel Drive, Rear   |              |  |                           |
| <b>Additional Terms and Acronyms</b> |   |              |  |                           |
| 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   |                           |