

| Test Group Information                       |                                                                                                                                                                                                         |                                                     |              |      |                            |                              |          |                                          |    |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------|------|----------------------------|------------------------------|----------|------------------------------------------|----|
| CSI Type                                     | Update for Correction                                                                                                                                                                                   | Running Change Reference Number                     | --           |      |                            |                              |          |                                          |    |
| GHG Exempt Status                            | Not Exempt                                                                                                                                                                                              |                                                     |              |      |                            |                              |          |                                          |    |
| Drive Sources and Fuel(s)                    |                                                                                                                                                                                                         |                                                     |              |      |                            |                              |          |                                          |    |
| Drive Source #1:                             | Combustion Engine                                                                                                                                                                                       |                                                     |              |      |                            |                              |          |                                          |    |
|                                              | <table><tr><th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr><tr><td>Gasoline</td><td>Spark Ignition direct &amp; ported injection</td><td>No</td></tr></table> |                                                     |              | Fuel | Basic Fuel Metering System | Lean Burn Strategy Indicator | Gasoline | Spark Ignition direct & ported injection | No |
| Fuel                                         | Basic Fuel Metering System                                                                                                                                                                              | Lean Burn Strategy Indicator                        |              |      |                            |                              |          |                                          |    |
| Gasoline                                     | Spark Ignition direct & ported injection                                                                                                                                                                | No                                                  |              |      |                            |                              |          |                                          |    |
| Hybrid Indicator                             | No                                                                                                                                                                                                      |                                                     |              |      |                            |                              |          |                                          |    |
| Multiple Fuel Storage                        | --                                                                                                                                                                                                      | Rechargeable Energy Storage System Indicator        | --           |      |                            |                              |          |                                          |    |
| Multiple Fuel Combustion                     | --                                                                                                                                                                                                      | Off-board Charge Capable Indicator                  | --           |      |                            |                              |          |                                          |    |
| Fuel Cell Indicator                          | --                                                                                                                                                                                                      | EPA Vehicle Class                                   | LDT3         |      |                            |                              |          |                                          |    |
| 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                        | VKMXGPGNNMP3                                                                                                                                                                                            | 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              | 01/03/2026                                                                                                                                                                                              | CAP2000 Conditional Certificate?                    | No           |      |                            |                              |          |                                          |    |
| Independent Commercial Importer?             | No                                                                                                                                                                                                      | Alternative Fuel Converter Certificate?             | No           |      |                            |                              |          |                                          |    |
| SFTP Federal Composite Compliance Identifier | Tier 3                                                                                                                                                                                                  | SFTP Tier 2 Composite CO Option                     | No           |      |                            |                              |          |                                          |    |
| SFTP LEV-III Composite Compliance Indicator  | No                                                                                                                                                                                                      |                                                     |              |      |                            |                              |          |                                          |    |
| OBD Compliance Type                          | CARB                                                                                                                                                                                                    | OBD Demonstration Vehicle Test Group                | VKMXT02.5MP3 |      |                            |                              |          |                                          |    |
| Test Group OBD Compliance Level              | Full - no deficiencies                                                                                                                                                                                  | Number of Test Group OBD Deficiencies               | 0            |      |                            |                              |          |                                          |    |
| OBD Deficiencies Comments                    | --                                                                                                                                                                                                      |                                                     |              |      |                            |                              |          |                                          |    |
| Mfr Test Group Comments                      | The fuel for Litmus test is E10. Litmus result(Value/Threshold): City(17.2/16.6) HWY(21.9/22.3). Test No: VKMX91006591(FTP),VKMX91006590(HWY),VKMX10091531(US06),VKMX10091530(SC03),VKMX10091532(Cold)  |                                                     |              |      |                            |                              |          |                                          |    |
| Mfr Exhaust / Evap Standards Comments        | --                                                                                                                                                                                                      |                                                     |              |      |                            |                              |          |                                          |    |

## Certification Summary Information Report

|                                                                             |                                                  |                                                           |                                     |                      |                     |                     |                       |
|-----------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|-----------------------|
| <b>Test Group</b>                                                           | VKMXT02.5MP3                                     | <b>Evaporative/Refueling Family</b>                       | VKMXR0151MPG                        |                      |                     |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |                                                  |                                                           |                                     |                      |                     |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | New                                              | <b>Submission/Correction Date</b>                         | 09/18/2025 08:56:16 PM              |                      |                     |                     |                       |
| <b>Integrated ORVR?</b>                                                     | Yes                                              | <b>Fuel(s)</b>                                            | Gasoline                            |                      |                     |                     |                       |
| <b>Multiple Fuel Storage</b>                                                | --                                               |                                                           |                                     |                      |                     |                     |                       |
| <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> | HC-Trap                             |                      |                     |                     |                       |
| <b>Fuel System Vapor Storage Canister?</b>                                  | Yes                                              | <b>Other Vapor Storage</b>                                | --                                  |                      |                     |                     |                       |
| <b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b> | 151                                              | <b>Number of Primary Canisters</b>                        | 1                                   |                      |                     |                     |                       |
| <b>Number of Bleed Canisters</b>                                            | 0                                                | <b>Bleed Canister Total Working Capacity (grams)</b>      | --                                  |                      |                     |                     |                       |
| <b>Mfr Evaporative/Refueling Family Comments</b>                            | --                                               |                                                           |                                     |                      |                     |                     |                       |
| <b>Leak Family Details</b>                                                  |                                                  |                                                           |                                     |                      |                     |                     |                       |
| <b>Leak Family Indicator</b>                                                | Yes                                              |                                                           |                                     |                      |                     |                     |                       |
| <b>Canister Bleed Test Indicator</b>                                        | Yes                                              | <b>Applicability of Evaporative Canister Bleed Test</b>   | 50 State                            |                      |                     |                     |                       |
| <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>      |                      |                     |                     |                       |
| VKMXR0151MPG-LQ2                                                            | 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> |
| Kia Corporation                                                             | 1 - KIA                                          | 101 - Telluride FWD                                       | California + CAA Section 177 states | 2-Wheel Drive, Front | Semi-Automatic      | 8                   | Yes                   |
| Kia Corporation                                                             | 1 - KIA                                          | 101 - Telluride FWD                                       | Federal                             | 2-Wheel Drive, Front | Semi-Automatic      | 8                   | Yes                   |
| Kia Corporation                                                             | 1 - KIA                                          | 102 - Telluride X-PRO                                     | California + CAA Section 177 states | All Wheel Drive      | Semi-Automatic      | 8                   | Yes                   |
| Kia Corporation                                                             | 1 - KIA                                          | 100 - Telluride AWD                                       | Federal                             | All Wheel Drive      | Semi-Automatic      | 8                   | Yes                   |
| Kia Corporation                                                             | 1 - KIA                                          | 100 - Telluride AWD                                       | California + CAA Section 177 states | All Wheel Drive      | Semi-Automatic      | 8                   | Yes                   |
| Kia Corporation                                                             | 1 - KIA                                          | 102 - Telluride X-PRO                                     | Federal                             | All Wheel Drive      | Semi-Automatic      | 8                   | Yes                   |

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|                                                  |                                     |                                                          |                           |                               |
|--------------------------------------------------|-------------------------------------|----------------------------------------------------------|---------------------------|-------------------------------|
| <b>Test Group</b>                                | VKMXT02.5MP3                        | <b>Evaporative/Refueling Family</b>                      | VKMXR0151MPG              |                               |
| <b>Engine Description</b>                        |                                     |                                                          |                           |                               |
| <b>Hybrid Type</b>                               | --                                  | <b>Hybrid Description</b>                                | --                        |                               |
| <b>Engine Type</b>                               | 4-Stroke Spark Ignition             | <b>Mfr Engine Description</b>                            | --                        |                               |
| <b>Engine Block Arrangement</b>                  | Inline                              | <b>Mfr Engine Block Arrangement Description</b>          | --                        |                               |
| <b>Camless Valvetrain Indicator</b>              | No                                  | <b>Oil Viscosity/Classification</b>                      | SAE 0W-30                 |                               |
| <b>Number of Cylinders/Rotors</b>                | 4                                   | <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                  | Platinum + Palladium + Rhodium                           | Ceramic                   | Monolith                      |
| 2                                                | Three-way catalyst                  | Platinum + Palladium + Rhodium                           | Ceramic                   | Monolith                      |
| 3                                                | Three-way catalyst                  | Platinum + Palladium + Rhodium                           | Ceramic                   | Monolith                      |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                                     |                                                          |                           |                               |
| WU-TWC + GPF + TWC                               |                                     |                                                          |                           |                               |
| <b>Direct Ozone Reduction (DOR) Device</b>       |                                     |                                                          |                           |                               |
| Not Equipped                                     |                                     |                                                          |                           |                               |
| <b>Mfr Emission Control Device Comments</b>      |                                     |                                                          |                           |                               |
| --                                               |                                     |                                                          |                           |                               |
| <b>Engine Configuration Number 1</b>             |                                     |                                                          |                           |                               |
| <b>Engine Displacement (liters)</b>              | 2.5                                 | <b>Engine Rated Horsepower</b>                           | 258                       |                               |
| <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>                  | 1                         |                               |
| <b>Air Aspiration Device Configuration</b>       | Single                              | <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>  | Fixed3(More than two or continuous) |                                                          |                           |                               |
| <b>Variable Valve Lift?</b>                      | No                                  |                                                          |                           |                               |
| <b>Variable Valve Lift System Description</b>    | --                                  |                                                          |                           |                               |
| <b>Number of Knock Sensors</b>                   | 2                                   | <b>Number of Air/Fuel Sensors</b>                        | 2                         |                               |
| <b>Air/Fuel Sensor # 1 Type</b>                  | Other                               | <b>Air/Fuel Sensor # 1 Description</b>                   | WR-HO2S                   |                               |
| <b>Air/Fuel Sensor # 2 Type</b>                  | Heated oxygen                       | <b>Air/Fuel Sensor # 2 Description</b>                   | --                        |                               |
| <b>Mfr Air/Fuel Sensor Comments</b>              | --                                  |                                                          |                           |                               |
| <b>Exhaust Gas Recirculation</b>                 | No                                  | <b>Cooled Exhaust Gas Recirculation</b>                  | No                        |                               |
| <b>EGR Type</b>                                  | --                                  | <b>Exhaust Gas Recirculation Description if 'Other'</b>  | --                        |                               |
| <b>Closed Loop Air Injection System</b>          | No                                  |                                                          |                           |                               |
| <b>Air Injection Type</b>                        | Not Applicable                      | <b>Air Injection Type if 'Other'</b>                     | --                        |                               |
| <b>Mfr Engine Configuration Comments</b>         | --                                  |                                                          |                           |                               |

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|                                    |  |              |              |              |              |                              |                       |                           |                          |                              |                       |
|------------------------------------|--|--------------|--------------|--------------|--------------|------------------------------|-----------------------|---------------------------|--------------------------|------------------------------|-----------------------|
| Test Group                         |  | VKMXT02.5MP3 |              |              |              | Evaporative/Refueling Family |                       |                           | VKMXR0151MPG             |                              |                       |
| Official Test Numbers              |  |              |              |              |              |                              |                       |                           |                          |                              |                       |
| Test Group Fuel                    |  | FTP          | US06         | SC03         | Cold CO      | Highway                      | EPA City Litmus Value | EPA City Litmus Threshold | EPA Highway Litmus Value | EPA Highway Litmus Threshold | CREE Weighting Factor |
| Gasoline                           |  | VKMX91006591 | VKMX10091531 | VKMX10091530 | VKMX10091532 | VKMX91006590                 | 35.7                  | 16.6                      | 20.8                     | 22.3                         | --                    |
| SFTP LEV-III Official Test Numbers |  |              |              |              |              |                              |                       |                           |                          |                              |                       |
| Test Group Fuel                    |  | FTP          |              | US06         |              | SC03                         |                       |                           |                          |                              |                       |
| Gasoline                           |  | VKMX91006591 |              | VKMX10091531 |              | VKMX10091530                 |                       |                           |                          |                              |                       |

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| <b>Test Group</b>                            | VKMXT02.5MP3                                                                                                                                                                  | <b>Evaporative/Refueling Family</b>                   | VKMXR0151MPG            |      |   |                   |          |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|------|---|-------------------|----------|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Vehicle ID / Configuration</b>            | KA4U2L5GA069F / 0                                                                                                                                                             | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |      |   |                   |          |  |
| <b>Original Test Group Name</b>              | NKMXT03.5KU5                                                                                                                                                                  | <b>Original Evaporative/Refueling Family</b>          | NKMXR0155KUG            |      |   |                   |          |  |
| <b>Original Test Vehicle Model Year</b>      | 2022                                                                                                                                                                          |                                                       |                         |      |   |                   |          |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Represented Test Vehicle Make</b>         | KIA                                                                                                                                                                           | <b>Represented Test Vehicle Model</b>                 | CARNIVAL                |      |   |                   |          |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Leak Family Identifier</b>                | KA4                                                                                                                                                                           | <b>Leak Family Name</b>                               | NKMXR0155KUG-KA4        |      |   |                   |          |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </table> | Drive Source and Fuel#                                | Drive Source            | Fuel | 1 | Combustion Engine | Gasoline |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                                  | Fuel                                                  |                         |      |   |                   |          |  |
| 1                                            | Combustion Engine                                                                                                                                                             | Gasoline                                              |                         |      |   |                   |          |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                            |                                                       |                         |      |   |                   |          |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                            | <b>Multiple Fuel Combustion</b>                       | --                      |      |   |                   |          |  |
| <b>Fuel Cell Indicator</b>                   | --                                                                                                                                                                            | <b>Rechargeable Energy Storage System Indicator</b>   | --                      |      |   |                   |          |  |
| <b>Rechargeable Energy Storage System</b>    | --                                                                                                                                                                            | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                      |      |   |                   |          |  |
| <b>Off-board charge Capable Indicator</b>    | --                                                                                                                                                                            |                                                       |                         |      |   |                   |          |  |
| <b>Odometer Correction -- Initial</b>        | 0                                                                                                                                                                             | <b>Odometer Correction Factor</b>                     | 1.0003                  |      |   |                   |          |  |
| <b>Odometer Correction Sign</b>              | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                         |                                                       |                         |      |   |                   |          |  |
| <b>Engine Code</b>                           | G6DT-AC                                                                                                                                                                       | <b>Rated Horsepower</b>                               | 290                     |      |   |                   |          |  |
| <b>Displacement (liters)</b>                 | 3.5                                                                                                                                                                           |                                                       |                         |      |   |                   |          |  |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                           | <b>Air Aspiration Method, if 'Other'</b>              |                         |      |   |                   |          |  |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                            | <b>Air Aspiration Device Configuration</b>            | --                      |      |   |                   |          |  |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                            | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Front    |      |   |                   |          |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                                  | <b>Aged Emission Components</b>                       | 4,000 (mi)              |      |   |                   |          |  |
| <b>Curb Weight (lbs)</b>                     | 4535                                                                                                                                                                          | <b>Equivalent Test Weight (pounds)</b>                | 4750                    |      |   |                   |          |  |
| <b>GVWR (lbs)</b>                            | 6041                                                                                                                                                                          | <b>N/V Ratio</b>                                      | 27                      |      |   |                   |          |  |
| <b>Axle Ratio</b>                            | 3.51                                                                                                                                                                          |                                                       |                         |      |   |                   |          |  |
| <b>Transmission Type</b>                     | Semi-Automatic                                                                                                                                                                | <b># of Transmission Gears</b>                        | 8                       |      |   |                   |          |  |
| <b>Transmission Lockup</b>                   | Yes                                                                                                                                                                           | <b>Creep Gear</b>                                     | No                      |      |   |                   |          |  |
| <b>Dynamometer Coefficients:</b>             |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
|                                              | <b>Target Coefficients</b>                                                                                                                                                    |                                                       | <b>Set Coefficients</b> |      |   |                   |          |  |
| <b>Coefficient Category</b>                  | <b>A (lbf)</b>                                                                                                                                                                | <b>B (lbf/mph)</b>                                    | <b>C (lbf/mph**2)</b>   |      |   |                   |          |  |
| <b>City/Highway/Evap</b>                     | 26.773                                                                                                                                                                        | 0.39493                                               | 0.027419                |      |   |                   |          |  |
|                                              | <b>A (lbf)</b>                                                                                                                                                                | <b>B (lbf/mph)</b>                                    | <b>C (lbf/mph**2)</b>   |      |   |                   |          |  |
|                                              | 8.532                                                                                                                                                                         | 0.23356                                               | 0.027937                |      |   |                   |          |  |
|                                              | <b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>                                                                                          |                                                       |                         |      |   |                   |          |  |
|                                              | 15.3                                                                                                                                                                          |                                                       |                         |      |   |                   |          |  |
| <b>Emission Control Device Comments</b>      | --                                                                                                                                                                            |                                                       |                         |      |   |                   |          |  |

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| <b>Test Group</b>                                                                                                                                                                                                                                                           | VKMXT02.5MP3                               | <b>Evaporative/Refueling Family</b>                      | VKMXR0151MPG                        |                       |                       |                                                          |                                                           |                  |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------|-------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|-----------------------------------------------------------|------------------|----|
| <b>Manufacturer Test Vehicle Comments</b>                                                                                                                                                                                                                                   | KA4 3.5 8AT 19" EVAP                       |                                                          |                                     |                       |                       |                                                          |                                                           |                  |    |
| <b>Test #</b>                                                                                                                                                                                                                                                               | <b>NKMX10066867</b>                        | <b>Test Procedure</b>                                    | <b>38 - CA fuel 3-day evap.</b>     |                       |                       |                                                          |                                                           |                  |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                    | NKMX10066851                               | <b>Test Fuel Type</b>                                    | 46 - CARB LEV3 E10 Regular Gasoline |                       |                       |                                                          |                                                           |                  |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                            | 07/24/2020                                 | <b>Fuel</b>                                              | Gasoline                            |                       |                       |                                                          |                                                           |                  |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                        | 19E-03                                     | <b>Fuel Calibration Number</b>                           | 1                                   |                       |                       |                                                          |                                                           |                  |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                        | N/A                                        | <b>DF Type</b>                                           | Mfr. Determined                     |                       |                       |                                                          |                                                           |                  |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                   | 772-1, Jangduck-Dong                       |                                                          |                                     |                       |                       |                                                          |                                                           |                  |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                              | Calculated (1.08 x FID Total Hydrocarbons) |                                                          |                                     |                       |                       |                                                          |                                                           |                  |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                          | 4225                                       | <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 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>                              | No                                  |                       |                       |                                                          |                                                           |                  |    |
| <b>Test Results</b>                                                                                                                                                                                                                                                         |                                            |                                                          |                                     |                       |                       |                                                          |                                                           |                  |    |
| <table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.2745</td> <td>--</td> </tr> </table> |                                            |                                                          |                                     | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.2745           | -- |
| Test Result Name                                                                                                                                                                                                                                                            | Unrounded Test Result                      | Verify Calculated FE Equivalent Value (miles per gallon) |                                     |                       |                       |                                                          |                                                           |                  |    |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                   | 0.2745                                     | --                                                       |                                     |                       |                       |                                                          |                                                           |                  |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                           |                                            |                                                          |                                     |                       |                       |                                                          |                                                           |                  |    |
| 22MY KA4 3.5 19"(ETW:4750)-3DBL                                                                                                                                                                                                                                             |                                            |                                                          |                                     |                       |                       |                                                          |                                                           |                  |    |
| <b>Certification Region</b>                                                                                                                                                                                                                                                 | <b>Useful Life</b>                         | <b>Standard Level</b>                                    | <b>Emission Name</b>                | <b>Rounded Result</b> | <b>Add DF</b>         | <b>Certification Level</b>                               | <b>Standard</b>                                           | <b>Pass/Fail</b> |    |
| Fed                                                                                                                                                                                                                                                                         | 150,000 miles                              | Federal Tier 3 Evap                                      | HC-TOTAL-EQUIV                      | 0.2745                | 0                     | 0.274                                                    | 0.5                                                       | Pass             |    |
| CA                                                                                                                                                                                                                                                                          | 150,000 miles                              | California LEV-IV Zero Evap (Option 2)                   | HC-TOTAL-EQUIV                      | 0.2745                | 0                     | 0.274                                                    | 0.5                                                       | Pass             |    |

## Certification Summary Information Report

| Test Group                                     | VKMXT02.5MP3                               | Evaporative/Refueling Family          | VKMXR0151MPG                           |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------|
| <b>Test #</b>                                  | <b>NKMX91004661</b>                        | <b>Test Procedure</b>                 | <b>27 - California fuel 2-day evap</b> |
| <b>Exhaust Test # for this Evap Test</b>       | NKMX91004658                               | <b>Test Fuel Type</b>                 | 46 - CARB LEV3 E10 Regular             |
| <b>Test Date</b>                               | 11/04/2020                                 | <b>Fuel</b>                           | Gasoline                               |
| <b>Fuel Batch ID</b>                           | 26757                                      | <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> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                        |
| <b>Test Start Odometer Reading</b>             | 4363                                       | <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 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 |
|-----------------------------------------------------------|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.215781              | --                                    |

## Manufacturer Test Comments

Hot\_Soak\_HC\_(g) = 0.024241, Diurnal (gHC) = 0.191540

| 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 | 0.2158         | 0      | 0.216               | 0.5      | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.2158         | 0      | 0.216               | 0.5      | Pass      |

## Certification Summary Information Report

|                                                                                                                                                                                                                                                                                                         |                                            |                                                                 |                                          |                         |                              |                                                                 |                                                                  |                  |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------|-------------------------|------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------|----|
| <b>Test Group</b>                                                                                                                                                                                                                                                                                       | VKMXT02.5MP3                               | <b>Evaporative/Refueling Family</b>                             | VKMXR0151MPG                             |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Test #</b>                                                                                                                                                                                                                                                                                           | <b>NKMX10066866</b>                        | <b>Test Procedure</b>                                           | <b>37 - California Fuel Running Loss</b> |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                | NKMX10066851                               | <b>Test Fuel Type</b>                                           | 46 - CARB LEV3 E10 Regular Gasoline      |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                        | 07/24/2020                                 | <b>Fuel</b>                                                     | Gasoline                                 |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                    | 19E-03                                     | <b>Fuel Calibration Number</b>                                  | 1                                        |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                    | N/A                                        | <b>DF Type</b>                                                  | Mfr. Determined                          |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                               | 772-1, Jangduck-Dong                       |                                                                 |                                          |                         |                              |                                                                 |                                                                  |                  |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                          | Calculated (1.08 x FID Total Hydrocarbons) |                                                                 |                                          |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                      | 4225                                       | <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 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>                                     | No                                       |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Test Results</b>                                                                                                                                                                                                                                                                                     |                                            |                                                                 |                                          |                         |                              |                                                                 |                                                                  |                  |    |
| <table border="1"> <tr> <td><b>Test Result Name</b></td> <td><b>Unrounded Test Result</b></td> <td><b>Verify Calculated FE Equivalent Value (miles per gallon)</b></td> </tr> <tr> <td><b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b></td> <td>0.0001</td> <td>--</td> </tr> </table> |                                            |                                                                 |                                          | <b>Test Result Name</b> | <b>Unrounded Test Result</b> | <b>Verify Calculated FE Equivalent Value (miles per gallon)</b> | <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b> | 0.0001           | -- |
| <b>Test Result Name</b>                                                                                                                                                                                                                                                                                 | <b>Unrounded Test Result</b>               | <b>Verify Calculated FE Equivalent Value (miles per gallon)</b> |                                          |                         |                              |                                                                 |                                                                  |                  |    |
| <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>                                                                                                                                                                                                                                        | 0.0001                                     | --                                                              |                                          |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                       |                                            |                                                                 |                                          |                         |                              |                                                                 |                                                                  |                  |    |
| 22MY KA4 3.5 19"(ETW:4750) CA E10-RL                                                                                                                                                                                                                                                                    |                                            |                                                                 |                                          |                         |                              |                                                                 |                                                                  |                  |    |
| <b>Certification Region</b>                                                                                                                                                                                                                                                                             | <b>Useful Life</b>                         | <b>Standard Level</b>                                           | <b>Emission Name</b>                     | <b>Rounded Result</b>   | <b>Add DF</b>                | <b>Certification Level</b>                                      | <b>Standard</b>                                                  | <b>Pass/Fail</b> |    |
| Fed                                                                                                                                                                                                                                                                                                     | 150,000 miles                              | Federal Tier 3 Evap                                             | HC-TOTAL-EQUIV                           | 0                       | 0                            | 0                                                               | 0.05                                                             | Pass             |    |
| CA                                                                                                                                                                                                                                                                                                      | 150,000 miles                              | California LEV-IV Zero Evap (Option 2)                          | HC-TOTAL-EQUIV                           | 0                       | 0                            | 0                                                               | 0.05                                                             | Pass             |    |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                           | VKMXT02.5MP3                               | <b>Evaporative/Refueling Family</b>                      | VKMXR0151MPG                                       |                       |                       |                                                          |                                                           |                  |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|-----------------------------------------------------------|------------------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                               | <b>NKMX10066868</b>                        | <b>Test Procedure</b>                                    | <b>24 - Federal fuel refueling test (ORVR)</b>     |                       |                       |                                                          |                                                           |                  |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                    | NKMX10066859                               | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                       |                       |                                                          |                                                           |                  |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                            | 07/21/2020                                 | <b>Fuel</b>                                              | Gasoline                                           |                       |                       |                                                          |                                                           |                  |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                        | 19T-03                                     | <b>Fuel Calibration Number</b>                           | 1                                                  |                       |                       |                                                          |                                                           |                  |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                        | N/A                                        | <b>DF Type</b>                                           | Mfr. Determined                                    |                       |                       |                                                          |                                                           |                  |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                   | 772-1, Jangduck-Dong                       |                                                          |                                                    |                       |                       |                                                          |                                                           |                  |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                              | Calculated (1.08 x FID Total Hydrocarbons) |                                                          |                                                    |                       |                       |                                                          |                                                           |                  |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                          | 4157                                       | <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 1066 (+/- 2.0 mph, +/- 1.0 sec)  | <b>Road Speed Fan Usage</b>                              | No                                                 |                       |                       |                                                          |                                                           |                  |    |
| <b>Test Results</b>                                                                                                                                                                                                                                                         |                                            |                                                          |                                                    |                       |                       |                                                          |                                                           |                  |    |
| <table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0011</td> <td>--</td> </tr> </table> |                                            |                                                          |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0011           | -- |
| Test Result Name                                                                                                                                                                                                                                                            | Unrounded Test Result                      | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                       |                       |                                                          |                                                           |                  |    |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                   | 0.0011                                     | --                                                       |                                                    |                       |                       |                                                          |                                                           |                  |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                           |                                            |                                                          |                                                    |                       |                       |                                                          |                                                           |                  |    |
| 22MY KA4 3.5 19"(ETW:4750) CA E10-ORVR                                                                                                                                                                                                                                      |                                            |                                                          |                                                    |                       |                       |                                                          |                                                           |                  |    |
| <b>Certification Region</b>                                                                                                                                                                                                                                                 | <b>Useful Life</b>                         | <b>Standard Level</b>                                    | <b>Emission Name</b>                               | <b>Rounded Result</b> | <b>Add DF</b>         | <b>Certification Level</b>                               | <b>Standard</b>                                           | <b>Pass/Fail</b> |    |
| Fed                                                                                                                                                                                                                                                                         | 150,000 miles                              | Federal Tier 3 Evap                                      | HC-TOTAL-EQUIV                                     | 0.001                 | 0                     | 0                                                        | 0.2                                                       | Pass             |    |
| CA                                                                                                                                                                                                                                                                          | 150,000 miles                              | California LEV-IV Zero Evap (Option 2)                   | HC-TOTAL-EQUIV                                     | 0.001                 | 0                     | 0                                                        | 0.2                                                       | Pass             |    |

Certification Summary Information Report

|                                         |                                            |                                |                                     |
|-----------------------------------------|--------------------------------------------|--------------------------------|-------------------------------------|
| Test Group                              | VKMXT02.5MP3                               | Evaporative/Refueling Family   | VKMXR0151MPG                        |
| Test #                                  | NKMX10066870                               | Test Procedure                 | 65 - Evap Canister Bleed Test       |
| Exhaust Test # for this Evap Test       | --                                         | Test Fuel Type                 | 46 - CARB LEV3 E10 Regular Gasoline |
| Test Date                               | 07/09/2020                                 | Fuel                           | Gasoline                            |
| Fuel Batch ID                           | 19E-03                                     | Fuel Calibration Number        | 1                                   |
| Vehicle Class                           | N/A                                        | DF Type                        | Mfr. Determined                     |
| Verify Test Lab ID                      | 772-1, Jangduck-Dong                       |                                |                                     |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) |                                |                                     |
| Test Start Odometer Reading             | 4112                                       | Odometer Units                 | M                                   |
| 4WD Test Dyno                           | No                                         | Diesel Adjustment Factor Usage | --                                  |
| State of Charge Delta                   | --                                         |                                |                                     |
| Drive Cycle Speed Tolerance Criteria    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)  | Road Speed Fan Usage           | No                                  |

Test Results

| Test Result Name             | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|------------------------------|-----------------------|----------------------------------------------------------|
| HC-TOTAL (Total Hydrocarbon) | 0.0061                | --                                                       |

Manufacturer Test Comments22MY KA4 3.5 19"(ETW:4750) CA E10-Bleed

| 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      | 0.0061         | 0      | 0.006               | 0.02     | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL      | 0.0061         | 0      | 0.006               | 0.02     | Pass      |

## Certification Summary Information Report

| Test Group                                     | VKMXT02.5MP3                              | Evaporative/Refueling Family          | VKMXR0151MPG                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>NKMX10066871</b>                       | <b>Test Procedure</b>                 | <b>68 - Leak Test - Port Near Fuel Pipe</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>                               | 07/28/2020                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 19T-03                                    | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | N/A                                       | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | 772-1, Jangduck-Dong                      |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 4253                                      | <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 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 |
|---------------------------------------------|-----------------------|---------------------------------------|
| LEAK-DIA (Effective Leak Diameter (inches)) | 0                     | --                                    |

## Manufacturer Test Comments

22MY KA4 3.5 19"(ETW:4750) CA E10-Leak Test Port Near Fuel Pipe-Correct Odometer

| 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                    | LEAK-DIA      | 0              | 0      | 0                   | 0.02     | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | LEAK-DIA      | 0              | 0      | 0                   | 0.02     | Pass      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                                           |               |                                       |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------|---------------|---------------------------------------|--------|----------------------------------------------------|----------|-----------|----------------------|-------------|-----------------------|---------------|---------------------------------------|--------|---------------------------------------------|----------|-----------|-----|---------------|---------------------|----------|---|---|---|------|------|----|---------------|----------------------------------------|----------|---|---|---|------|------|
| Test Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               | VKMXT02.5MP3                              |               | Evaporative/Refueling Family          |        | VKMXR0151MPG                                       |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Test #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               | NKMX10066872                              |               | Test Procedure                        |        | 67 - Leak Test - Port Near Canister                |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Exhaust Test # for this Evap Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | --                                        |               | Test Fuel Type                        |        | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Test Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               | 07/28/2020                                |               | Fuel                                  |        | Gasoline                                           |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Fuel Batch ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | 19T-03                                    |               | Fuel Calibration Number               |        | 1                                                  |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Vehicle Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | N/A                                       |               | DF Type                               |        | Mfr. Determined                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Verify Test Lab ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               | 772-1, Jangduck-Dong                      |               |                                       |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| E10 Evaporative Test Measurement Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               | --                                        |               |                                       |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Test Start Odometer Reading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               | 4253                                      |               | Odometer Units                        |        | M                                                  |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| 4WD Test Dyno                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | No                                        |               | Diesel Adjustment Factor Usage        |        | --                                                 |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| State of Charge Delta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | --                                        |               |                                       |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Drive Cycle Speed Tolerance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) |               | Road Speed Fan Usage                  |        | No                                                 |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                                           |               |                                       |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| <table><tr><td colspan="2">Test Result Name</td><td colspan="2">Unrounded Test Result</td><td colspan="2">Verify Calculated FE Equivalent Value</td></tr><tr><td colspan="2">LEAK-DIA (Effective Leak Diameter (inches))</td><td colspan="2">0</td><td colspan="2">--</td></tr></table>                                                                                                                                                                                                                                                       |               |                                           |               |                                       |        |                                                    |          |           | Test Result Name     |             | Unrounded Test Result |               | Verify Calculated FE Equivalent Value |        | LEAK-DIA (Effective Leak Diameter (inches)) |          | 0         |     | --            |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               | Unrounded Test Result                     |               | Verify Calculated FE Equivalent Value |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| LEAK-DIA (Effective Leak Diameter (inches))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               | 0                                         |               | --                                    |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                           |               |                                       |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| 22MY KA4 3.5 19"(ETW:4750) CA E10-Leak Test Port Near Canister-CORRECT ODORMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                                           |               |                                       |        |                                                    |          |           |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| <table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>LEAK-DIA</td><td>0</td><td>0</td><td>0</td><td>0.02</td><td>Pass</td></tr><tr><td>CA</td><td>150,000 miles</td><td>California LEV-IV Zero Evap (Option 2)</td><td>LEAK-DIA</td><td>0</td><td>0</td><td>0</td><td>0.02</td><td>Pass</td></tr></table> |               |                                           |               |                                       |        |                                                    |          |           | 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 | LEAK-DIA | 0 | 0 | 0 | 0.02 | Pass | CA | 150,000 miles | California LEV-IV Zero Evap (Option 2) | LEAK-DIA | 0 | 0 | 0 | 0.02 | Pass |
| 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                       | LEAK-DIA      | 0                                     | 0      | 0                                                  | 0.02     | Pass      |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |
| CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 150,000 miles | California LEV-IV Zero Evap (Option 2)    | LEAK-DIA      | 0                                     | 0      | 0                                                  | 0.02     | Pass      |                      |             |                       |               |                                       |        |                                             |          |           |     |               |                     |          |   |   |   |      |      |    |               |                                        |          |   |   |   |      |      |

## Certification Summary Information Report

| Test Group                                                                                                                                                                                                      | VKMXT02.5MP3                                                                                    | Evaporative/Refueling Family                   | VKMXR0151MPG         |                        |              |      |   |                   |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------|------------------------|--------------|------|---|-------------------|----------|
| <b>Emission Data Vehicle Information</b>                                                                                                                                                                        |                                                                                                 |                                                |                      |                        |              |      |   |                   |          |
| Vehicle ID / Configuration                                                                                                                                                                                      | LQ2HAU6H5TA100A / 0                                                                             | Manufacturer Vehicle Configuration Number      | 0                    |                        |              |      |   |                   |          |
| Original Test Group Name                                                                                                                                                                                        | VKMXT02.5MP3                                                                                    | Original Evaporative/Refueling Family          | VKMXR0151MPG         |                        |              |      |   |                   |          |
| Original Test Vehicle Model Year                                                                                                                                                                                | 2027                                                                                            |                                                |                      |                        |              |      |   |                   |          |
| <b>Vehicle Model</b>                                                                                                                                                                                            |                                                                                                 |                                                |                      |                        |              |      |   |                   |          |
| Represented Test Vehicle Make                                                                                                                                                                                   | Kia                                                                                             | Represented Test Vehicle Model                 | Telluride            |                        |              |      |   |                   |          |
| <b>Leak Family Details</b>                                                                                                                                                                                      |                                                                                                 |                                                |                      |                        |              |      |   |                   |          |
| Leak Family Identifier                                                                                                                                                                                          | LQ2                                                                                             | Leak Family Name                               | VKMXR0151MPG-LQ2     |                        |              |      |   |                   |          |
| <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>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table> |                                                                                                 |                                                |                      | Drive Source and Fuel# | Drive Source | Fuel | 1 | Combustion Engine | Gasoline |
| Drive Source and Fuel#                                                                                                                                                                                          | Drive Source                                                                                    | Fuel                                           |                      |                        |              |      |   |                   |          |
| 1                                                                                                                                                                                                               | Combustion Engine                                                                               | Gasoline                                       |                      |                        |              |      |   |                   |          |
| Hybrid Indicator                                                                                                                                                                                                | No                                                                                              |                                                |                      |                        |              |      |   |                   |          |
| Multiple Fuel Storage                                                                                                                                                                                           | --                                                                                              | Multiple Fuel Combustion                       | --                   |                        |              |      |   |                   |          |
| Fuel Cell Indicator                                                                                                                                                                                             | --                                                                                              | Rechargeable Energy Storage System Indicator   | --                   |                        |              |      |   |                   |          |
| Rechargeable Energy Storage System                                                                                                                                                                              | --                                                                                              | Rechargeable Energy Storage System, if 'Other' | --                   |                        |              |      |   |                   |          |
| Off-board charge Capable Indicator                                                                                                                                                                              | --                                                                                              |                                                |                      |                        |              |      |   |                   |          |
| Odometer Correction -- Initial                                                                                                                                                                                  | 0                                                                                               | Odometer Correction Factor                     | 0.9997               |                        |              |      |   |                   |          |
| Odometer Correction Sign                                                                                                                                                                                        | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles |                                                |                      |                        |              |      |   |                   |          |
| Odometer Correction Units                                                                                                                                                                                       | Miles                                                                                           |                                                |                      |                        |              |      |   |                   |          |
| Engine Code                                                                                                                                                                                                     | G4KP-AC                                                                                         | Rated Horsepower                               | 274                  |                        |              |      |   |                   |          |
| Displacement (liters)                                                                                                                                                                                           | 2.5                                                                                             |                                                |                      |                        |              |      |   |                   |          |
| Air Aspiration Method                                                                                                                                                                                           | Turbocharged                                                                                    | Air Aspiration Method, if 'Other'              |                      |                        |              |      |   |                   |          |
| Number of Air Aspiration Devices                                                                                                                                                                                | 1                                                                                               | Air Aspiration Device Configuration            | Single               |                        |              |      |   |                   |          |
| Charge Air Cooler Type                                                                                                                                                                                          | Liquid                                                                                          | Drive Mode While Testing                       | 2-Wheel Drive, Front |                        |              |      |   |                   |          |
| Shift Indicator Light Usage                                                                                                                                                                                     | Not equipped                                                                                    | Aged Emission Components                       | 4,000 (mi)           |                        |              |      |   |                   |          |
| Curb Weight (lbs)                                                                                                                                                                                               | 4729                                                                                            | Equivalent Test Weight (pounds)                | 5250                 |                        |              |      |   |                   |          |
| GVWR (lbs)                                                                                                                                                                                                      | 6261                                                                                            | N/V Ratio                                      | 26.2                 |                        |              |      |   |                   |          |
| Axle Ratio                                                                                                                                                                                                      | 3.51                                                                                            |                                                |                      |                        |              |      |   |                   |          |
| Transmission Type                                                                                                                                                                                               | Semi-Automatic                                                                                  | # of Transmission Gears                        | 8                    |                        |              |      |   |                   |          |
| Transmission Lockup                                                                                                                                                                                             | Yes                                                                                             | Creep Gear                                     | No                   |                        |              |      |   |                   |          |

Certification Summary Information Report

|                                    |         |                                                                                 |                |                  |                              |                |                                                                                  |  |
|------------------------------------|---------|---------------------------------------------------------------------------------|----------------|------------------|------------------------------|----------------|----------------------------------------------------------------------------------|--|
| Test Group                         |         | VKMXT02.5MP3                                                                    |                |                  | Evaporative/Refueling Family |                | VKMXR0151MPG                                                                     |  |
| Dynamometer Coefficients:          |         |                                                                                 |                |                  |                              |                |                                                                                  |  |
| Target Coefficients                |         |                                                                                 |                | Set Coefficients |                              |                | EPA Calculated Total Road Load Horse Power for<br>City/Highway/Evap Coefficients |  |
| Coefficient<br>Category            | A (lbf) | B (lbf/mph)                                                                     | C (lbf/mph**2) | A (lbf)          | B (lbf/mph)                  | C (lbf/mph**2) |                                                                                  |  |
| City/Highway/Evap                  | 39.277  | 0.50035                                                                         | 0.026036       | 20.346           | 0.21615                      | 0.027415       | 17.3                                                                             |  |
| Cold CO                            | 43.205  | 0.55039                                                                         | 0.02864        | 12.806           | -0.07055                     | 0.032817       | N/A                                                                              |  |
| US06                               | 39.277  | 0.50035                                                                         | 0.026036       | 20.346           | 0.21615                      | 0.027415       | N/A                                                                              |  |
| Emission Control Device Comments   |         | --                                                                              |                |                  |                              |                |                                                                                  |  |
| Manufacturer Test Vehicle Comments |         | Telluride X-PRO 2.5 8AT 18in X-Pro 5250 AWD. TYPO of EVAP family was corrected. |                |                  |                              |                |                                                                                  |  |

## Certification Summary Information Report

| Test Group                                     | VKMXT02.5MP3                                  | Evaporative/Refueling Family          | VKMXR0151MPG                               |
|------------------------------------------------|-----------------------------------------------|---------------------------------------|--------------------------------------------|
| <b>Test #</b>                                  | <b>VKMX10091532</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>                               | 06/19/2025                                    | <b>Fuel</b>                           | Gasoline                                   |
| <b>Fuel Batch ID</b>                           | 25D-01                                        | <b>Fuel Calibration Number</b>        | 1                                          |
| <b>Vehicle Class</b>                           | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                            |
| <b>Verify Test Lab ID</b>                      | 772-1, Jangduck-Dong                          |                                       |                                            |
| <b>E10 Evaporative Test Measurement Method</b> | --                                            | <b>Odometer Units</b>                 | M                                          |
| <b>Test Start Odometer Reading</b>             | 4464                                          | <b>Diesel Adjustment Factor Usage</b> | --                                         |
| <b>4WD Test Dyno</b>                           | No                                            |                                       |                                            |
| <b>State of Charge Delta</b>                   | --                                            |                                       |                                            |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)     | <b>Road Speed Fan Usage</b>           | Yes                                        |
| <b>Test Results</b>                            |                                               |                                       |                                            |

## Certification Summary Information Report

| Test Group                                         | VKMXT02.5MP3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Evaporative/Refueling Family                             | VKMXR0151MPG          |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|----------------------------------------------------------|----------------------------------|----------|----|----------------------------------|------|----|-------------------------------|------|------|---------------------------|------|----|----------------------------------------------|-------|----|----------------------------------|-----|----|----------------------------------|------|----|-------------------------------|------|------|---------------------------|---|----|----------------------------------------------|-------|----|----------------------------------|-----|----|----------------------------------|---|----|-------------------------------|------|------|---------------------------|---|----|----------------------------------------------|-------|----|-------------------------|--------|----|----------------------|--------|----|----------------------------------------------------|-------|----|--------------------------------------------|-------|----|-------------------------------------------------|-------|----|------------------------------------|---------|---------|----------------------|--------|----|---------------------------------|--------|----|----------------------------------|--------|----|--|--|
|                                                    | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>539</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.83</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>16.1</td><td>16.1</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.14</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.205</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>452</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.05</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>19.3</td><td>19.3</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.003</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>383</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>22.7</td><td>22.7</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.008</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0082</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1977</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-0.89</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.84</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-1.12</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>19.2902</td><td>19.2902</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0062</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0289</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0318</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 539      | -- | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.83 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 16.1 | 16.1 | CH4 BAG 1 (Bag 1 Methane) | 0.14 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.205 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 452 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.05 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 19.3 | 19.3 | CH4 BAG 2 (Bag 2 Methane) | 0 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0.003 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 383 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 22.7 | 22.7 | CH4 BAG 3 (Bag 3 Methane) | 0 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0.008 | -- | METHANE (CH4 - Methane) | 0.0082 | -- | CO (Carbon Monoxide) | 0.1977 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.89 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.84 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | -1.12 | -- | MFR FE (Manufacturer Fuel Economy) | 19.2902 | 19.2902 | NOX (Nitrogen Oxide) | 0.0062 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0289 | -- | NMOG (Non-methane organic gases) | 0.0318 | -- |  |  |
| Test Result Name                                   | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Verify Calculated FE Equivalent Value (miles per gallon) |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 539                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CO BAG 1 (Bag 1 Carbon Monoxide)                   | 0.83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 16.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16.1                                                     |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CH4 BAG 1 (Bag 1 Methane)                          | 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)       | 0.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CO BAG 2 (Bag 2 Carbon Monoxide)                   | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 19.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19.3                                                     |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CH4 BAG 2 (Bag 2 Methane)                          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| NMOG BAG 2 (Bag 2 Non-methane organic gases)       | 0.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 383                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CO BAG 3 (Bag 3 Carbon Monoxide)                   | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 22.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 22.7                                                     |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CH4 BAG 3 (Bag 3 Methane)                          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| NMOG BAG 3 (Bag 3 Non-methane organic gases)       | 0.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| METHANE (CH4 - Methane)                            | 0.0082                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| CO (Carbon Monoxide)                               | 0.1977                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -1.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| MFR FE (Manufacturer Fuel Economy)                 | 19.2902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19.2902                                                  |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| NOX (Nitrogen Oxide)                               | 0.0062                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0289                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| NMOG (Non-methane organic gases)                   | 0.0318                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
|                                                    | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>451.0887</td><td>--</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test Result Name                                         | Unrounded Test Result | Verify Calculated CO2                                    | Carbon dioxide                   | 451.0887 | -- |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| Test Result Name                                   | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Verify Calculated CO2                                    |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| Carbon dioxide                                     | 451.0887                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                                       |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |
| Manufacturer Test Comments                         | LQ2 2.5T X-PRO 5250 18inch E10 - Cold FTP (Normal mode) Typo of fuel batch ID was corrected to 25D-01 NMHC result is added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          |                       |                                                          |                                  |          |    |                                  |      |    |                               |      |      |                           |      |    |                                              |       |    |                                  |     |    |                                  |      |    |                               |      |      |                           |   |    |                                              |       |    |                                  |     |    |                                  |   |    |                               |      |      |                           |   |    |                                              |       |    |                         |        |    |                      |        |    |                                                    |       |    |                                            |       |    |                                                 |       |    |                                    |         |         |                      |        |    |                                 |        |    |                                  |        |    |  |  |

Certification Summary Information Report

| Test Group           |               | VKMXT02.5MP3              |               |                |     | Evaporative/Refueling Family |                          |        |         | VKMXR0151MPG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 30     | CO            | 0.2            | --  | --                           | --                       | 0.06   | --      | 0.3                 | 12.5     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | HC-NM         | 0.03           | --  | --                           | --                       | 0.0016 | --      | 0                   | 0.5      | Pass      |
| CA                   | 50,000 miles  | California LEV-IV SULEV30 | CO            | 0.2            | --  | --                           | --                       | 0.06   | --      | 0.3                 | 12.5     | Pass      |

## Certification Summary Information Report

|                                                |                                               |                                       |                                                    |
|------------------------------------------------|-----------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VKMXT02.5MP3                                  | <b>Evaporative/Refueling Family</b>   | VKMXR0151MPG                                       |
| <b>Test #</b>                                  | <b>VKMX10091533</b>                           | <b>Test Procedure</b>                 | <b>52 - Fed. fuel 50 F exh.</b>                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                            | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 06/10/2025                                    | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 25T-02                                        | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | 772-1, Jangduck-Dong                          |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                            | <b>Odometer Units</b>                 | M                                                  |
| <b>Test Start Odometer Reading</b>             | 4339                                          | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>4WD Test Dyno</b>                           | No                                            |                                       |                                                    |
| <b>State of Charge Delta</b>                   | --                                            | <b>Road Speed Fan Usage</b>           | Yes                                                |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)     |                                       |                                                    |

  

**Test Results**

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|-----------------------------------------------------------|-----------------------|----------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0.0032                | --                                                       |
| <b>CO (Carbon Monoxide)</b>                               | 0.0646                | --                                                       |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -1.69                 | --                                                       |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -1.16                 | --                                                       |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -2.51                 | --                                                       |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 21.6902               | 21.6902                                                  |
| <b>NOX (Nitrogen Oxide)</b>                               | 0.0068                | --                                                       |
| <b>NMOG (Non-methane organic gases)</b>                   | 0.0042                | --                                                       |

  

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 402.8559              | --                    |

  

**Manufacturer Test Comments** LQ2 2.5T X-PRO 5250 18inch E10 - 50F (Normal mode)

Certification Summary Information Report

| Test Group           |             | VKMXT02.5MP3              |               |                |     | Evaporative/Refueling Family |                          |        |         | VKMXR0151MPG        |          |           |
|----------------------|-------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life | Standard Level            | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| CA                   | 4,000 miles | California LEV-IV SULEV30 | CO            | 0.06           | --  | --                           | --                       | --     | --      | 0.1                 | 1.0      | Pass      |
| CA                   | 4,000 miles | California LEV-IV SULEV30 | NMOG          | 0.0042         | --  | 1.1                          | --                       | --     | --      | 0.004               | 99.999   | Pass      |
| CA                   | 4,000 miles | California LEV-IV SULEV30 | NMOG+NOX      | 0.011          | --  | --                           | --                       | --     | --      | 0.011               | 0.060    | Pass      |
| CA                   | 4,000 miles | California LEV-IV SULEV30 | NOX           | 0.0068         | --  | --                           | --                       | --     | --      | 0.007               | 99.999   | Pass      |

## Certification Summary Information Report

| Test Group                              | VKMXT02.5MP3                                  | Evaporative/Refueling Family   | VKMXR0151MPG                                       |
|-----------------------------------------|-----------------------------------------------|--------------------------------|----------------------------------------------------|
| Test #                                  | VKMX91006591                                  | Test Procedure                 | 21 - Federal fuel 2-day exhaust (w/can load)       |
| Exhaust Test # for this Evap Test       | --                                            | Test Fuel Type                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date                               | 09/05/2025                                    | Fuel                           | Gasoline                                           |
| Fuel Batch ID                           | 43732                                         | Fuel Calibration Number        | 2                                                  |
| Vehicle Class                           | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) | DF Type                        | Mfr. Determined                                    |
| Verify Test Lab ID                      | --                                            |                                |                                                    |
| E10 Evaporative Test Measurement Method | --                                            |                                |                                                    |
| Test Start Odometer Reading             | 4963                                          | Odometer Units                 | M                                                  |
| 4WD Test Dyno                           | No                                            | Diesel Adjustment Factor Usage | --                                                 |
| State of Charge Delta                   | --                                            |                                |                                                    |
| Drive Cycle Speed Tolerance Criteria    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)     | Road Speed Fan Usage           | Yes                                                |
| Test Results                            |                                               |                                |                                                    |

## Certification Summary Information Report

| Test Group                 | VKMXT02.5MP3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Evaporative/Refueling Family                                                                                                                                                                               | VKMXR0151MPG                                             |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
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|                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>432.5580444</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.212431</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.007507</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0488925</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>409.5108948</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0025808</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0004416</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>384.093689</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0039043</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0020411</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0000386</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0034517</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0449999</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.4601968</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.0818733</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.2842916</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0080556</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0021071</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0094042</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0103272</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0003131</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0127479</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                           | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 432.5580444                      | --           | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.212431 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 999 | -- | CH4 BAG 1 (Bag 1 Methane) | 0.007507 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0488925 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 409.5108948 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 999 | -- | CH4 BAG 2 (Bag 2 Methane) | 0.0025808 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0.0004416 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 384.093689 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.0039043 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 999 | -- | CH4 BAG 3 (Bag 3 Methane) | 0.0020411 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0.0000386 | -- | METHANE (CH4 - Methane) | 0.0034517 | -- | CO (Carbon Monoxide) | 0.0449999 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.4601968 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.0818733 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.2842916 | -- | MFR FE (Manufacturer Fuel Economy) | 999 | -- | NOX (Nitrogen Oxide) | 0.0080556 | -- | N2O (Nitrous Oxide) | 0.0021071 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0094042 | -- | NMOG (Non-methane organic gases) | 0.0103272 | -- | PM (Particulate Matter) | 0.0003131 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0127479 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unrounded Test Result                                                                                                                                                                                      | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 432.5580444                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.212431                                                                                                                                                                                                   | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 999                                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.007507                                                                                                                                                                                                   | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0488925                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 409.5108948                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 999                                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0025808                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0004416                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 384.093689                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.0039043                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 999                                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0020411                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0000386                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0034517                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0449999                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.4601968                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.0818733                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.2842916                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 999                                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0080556                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0021071                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0094042                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.0103272                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0003131                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0127479                                                                                                                                                                                                  | --                                                       |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>9999.9999999</td><td>407</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 9999.9999999 | 407                              |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unrounded Test Result                                                                                                                                                                                      | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9999.9999999                                                                                                                                                                                               | 407                                                      |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>407.3131714</td><td>--</td></tr></table>                               | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 407.3131714  | --                               |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
| Test Result Name           | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Verify Calculated CO2                                                                                                                                                                                      |                                                          |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
| Carbon dioxide             | 407.3131714                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | --                                                                                                                                                                                                         |                                                          |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |
| Manufacturer Test Comments | None Unrounded Result for the following test results were modified by Verify: FE BAG 2, MFR FE, FE BAG 1, FE BAG 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            |                                                          |                                                          |                                  |                                  |              |                                  |          |    |                               |     |    |                           |          |    |                                              |           |    |                                  |             |    |                                  |   |    |                               |     |    |                           |           |    |                                              |           |    |                                  |            |    |                                  |           |    |                               |     |    |                           |           |    |                                              |           |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |     |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |  |  |

## Certification Summary Information Report

| Test Group           |               | VKMXT02.5MP3              |               |                | Evaporative/Refueling Family |                  |                          |          |         | VKMXR0151MPG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|----------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF   | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | CREE          | 407            | --                           | --               | --                       | 0.247782 | --      | 407                 | --       | --        |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | METHANE       | 0.0035         | --                           | --               | --                       | 0.0019   | --      | 0.005               | 0.030    | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | N2O           | 0.0021         | --                           | --               | --                       | 0.0024   | --      | 0.004               | 0.010    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO            | 0.04           | --                           | --               | --                       | 0.18     | --      | 0.2                 | 1.0      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO-COMP       | 0.23           | --                           | --               | --                       | 0        | --      | 0.2                 | 4.2      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0103         | --                           | 1.1              | --                       | 0.0022   | --      | 0.012               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0184         | --                           | --               | --                       | --       | --      | 0.023               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX-COMP | 0.0187         | --                           | --               | --                       | 0        | --      | 0.019               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0081         | --                           | --               | --                       | 0.0028   | --      | 0.011               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | PM            | 0.0003         | --                           | --               | --                       | 0        | --      | 0                   | 0.003    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | CO            | 0.04           | --                           | --               | --                       | 0.18     | --      | 0.2                 | 1.0      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NMOG          | 0.0103         | --                           | 1.1              | --                       | 0.0022   | --      | 0.012               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NMOG+NOX      | 0.0184         | --                           | --               | --                       | --       | --      | 0.023               | 0.030    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NOX           | 0.0081         | --                           | --               | --                       | 0.0028   | --      | 0.011               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | PM            | 0.0003         | --                           | --               | --                       | 0        | --      | 0                   | 0.001    | 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>                              | VKMXT02.5MP3                                  | <b>Evaporative/Refueling Family</b>   | VKMXR0151MPG                                       |
| <b>Test #</b>                                  | <b>VKMX91006590</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>                               | 09/05/2025                                    | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 43732                                         | <b>Fuel Calibration Number</b>        | 2                                                  |
| <b>Vehicle Class</b>                           | LDT3 (ALVW 3751-5750, 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>             | 4974                                          | <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 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>                            | 0.0004405             | --                                                       |
| <b>CO (Carbon Monoxide)</b>                               | 0.0138188             | --                                                       |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | 3.5805302             | --                                                       |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.299486             | --                                                       |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | 5.1691642             | --                                                       |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 32.4149513            | --                                                       |
| <b>NOX (Nitrogen Oxide)</b>                               | 0.0022357             | --                                                       |
| <b>N2O (Nitrous Oxide)</b>                                | 0.0002274             | --                                                       |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0.0007036             | --                                                       |
| <b>NMOG (Non-methane organic gases)</b>                   | 0.0007247             | --                                                       |
| <b>HC-TOTAL (Total Hydrocarbon)</b>                       | 0.0011303             | --                                                       |

| Test Result Name                        | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-----------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b> | 9999.9999999          | 268                             |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 268.4006042           | --                    |

**Manufacturer Test Comments** None

## Certification Summary Information Report

| Test Group           |               | VKMXT02.5MP3              |               |                | Evaporative/Refueling Family |                  |                          |          |         | VKMXR0151MPG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|----------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF   | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | CREE          | 268            | --                           | --               | --                       | 0.247782 | --      | 268                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0007         | --                           | 1.03             | --                       | 0.0022   | --      | 0.003               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0029         | --                           | --               | --                       | --       | --      | 0.008               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0022         | --                           | --               | --                       | 0.0028   | --      | 0.005               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NMOG          | 0.0007         | --                           | 1.03             | --                       | 0.0022   | --      | 0.003               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NMOG+NOX      | 0.0029         | --                           | --               | --                       | --       | --      | 0.008               | 0.030    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NOX           | 0.0022         | --                           | --               | --                       | 0.0028   | --      | 0.005               | 99.999   | 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>                              | VKMXT02.5MP3                                  | <b>Evaporative/Refueling Family</b>   | VKMXR0151MPG                                       |
| <b>Test #</b>                                  | <b>VKMX10091531</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>                               | 06/03/2025                                    | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 25T-02                                        | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | 772-1, Jangduck-Dong                          |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                            |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 4277                                          | <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 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)                   | 694                   | --                                                       |
| CO BAG 1 (Bag 1 Carbon Monoxide)                   | 0                     | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 12.6                  | 12.6                                                     |
| CH4 BAG 1 (Bag 1 Methane)                          | 0.004                 | --                                                       |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)       | 0                     | --                                                       |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 376                   | --                                                       |
| CO BAG 2 (Bag 2 Carbon Monoxide)                   | 0.17                  | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 23.2                  | 23.2                                                     |
| CH4 BAG 2 (Bag 2 Methane)                          | 0.002                 | --                                                       |
| NMOG BAG 2 (Bag 2 Non-methane organic gases)       | 0                     | --                                                       |
| METHANE (CH4 - Methane)                            | 0.0028                | --                                                       |
| CO (Carbon Monoxide)                               | 0.1301                | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -2.94                 | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -2.06                 | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -3.57                 | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 19.5952               | 19.5952                                                  |
| NOX (Nitrogen Oxide)                               | 0.0143                | --                                                       |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                       |
| PM (Particulate Matter)                            | 0.0028                | --                                                       |

## Certification Summary Information Report

| Test Group                 |               | VKMXT02.5MP3              |               |                                                     |     | Evaporative/Refueling Family |                          |                       |         | VKMXR0151MPG        |          |           |
|----------------------------|---------------|---------------------------|---------------|-----------------------------------------------------|-----|------------------------------|--------------------------|-----------------------|---------|---------------------|----------|-----------|
|                            |               |                           |               |                                                     |     |                              |                          |                       |         |                     |          |           |
|                            |               |                           |               |                                                     |     |                              |                          |                       |         |                     |          |           |
| Test Result Name           |               |                           |               | Unrounded Test Result                               |     |                              |                          | Verify Calculated CO2 |         |                     |          |           |
| Carbon dioxide             |               |                           |               | 446.1902                                            |     |                              |                          | --                    |         |                     |          |           |
| Manufacturer Test Comments |               |                           |               | LQ2 2.5T X-PRO 5250 18inch E10 - US06 (Normal mode) |     |                              |                          |                       |         |                     |          |           |
|                            |               |                           |               |                                                     |     |                              |                          |                       |         |                     |          |           |
| 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 30     | CO            | 0.1301                                              | --  | --                           | --                       | 0.18                  | --      | 0.31                | 99.999   | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0                                                   | --  | 1.03                         | --                       | 0.0022                | --      | 0.002               | 99.999   | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0143                                              | --  | --                           | --                       | --                    | --      | 0.019               | 99.999   | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0143                                              | --  | --                           | --                       | 0.0028                | --      | 0.017               | 99.999   | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | PM            | 0.0028                                              | --  | --                           | --                       | 0                     | --      | 0.003               | 0.006    | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV30 | CO            | 0.13                                                | --  | --                           | --                       | 0.18                  | --      | 0.3                 | 9.6      | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV30 | NMOG          | 0                                                   | --  | 1.03                         | --                       | 0.0022                | --      | 0.002               | 99.999   | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV30 | NMOG+NOX      | 0.0143                                              | --  | --                           | --                       | --                    | --      | 0.019               | 0.036    | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV30 | NOX           | 0.0143                                              | --  | --                           | --                       | 0.0028                | --      | 0.017               | 99.999   | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV30 | PM            | 0.0028                                              | --  | --                           | --                       | 0.0006                | --      | 0.003               | 0.006    | Pass      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | VKMXT02.5MP3                                        | <b>Evaporative/Refueling Family</b>                      | VKMXR0151MPG                                       |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|------------------|-----------------------|----------------------------------------------------------|--------------------------------|----------|----|-----------------------------|---|----|-----------------------------------------------------------|------|----|---------------------------------------------------|-------|----|--------------------------------------------------------|-------|----|-------------------------------------------|---------|---------|-----------------------------|--------|----|-----------------------------------------|---|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>VKMX10091530</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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 06/06/2025                                          | <b>Fuel</b>                                              | Gasoline                                           |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25T-02                                              | <b>Fuel Calibration Number</b>                           | 1                                                  |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)       | <b>DF Type</b>                                           | Mfr. Determined                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 772-1, Jangduck-Dong                                |                                                          |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | --                                                  | <b>Odometer Units</b>                                    | M                                                  |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4324                                                | <b>Diesel Adjustment Factor Usage</b>                    | --                                                 |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No                                                  |                                                          |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                                  |                                                          |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)           | <b>Road Speed Fan Usage</b>                              | Yes                                                |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Test Results</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                                                          |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td><b>METHANE (CH4 - Methane)</b></td> <td>0.0013</td> <td>--</td> </tr> <tr> <td><b>CO (Carbon Monoxide)</b></td> <td>0</td> <td>--</td> </tr> <tr> <td><b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b></td> <td>-1.4</td> <td>--</td> </tr> <tr> <td><b>DT-EER (Drive Trace Energy Economy Rating)</b></td> <td>-1.15</td> <td>--</td> </tr> <tr> <td><b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b></td> <td>-2.14</td> <td>--</td> </tr> <tr> <td><b>MFR FE (Manufacturer Fuel Economy)</b></td> <td>18.7229</td> <td>18.7229</td> </tr> <tr> <td><b>NOX (Nitrogen Oxide)</b></td> <td>0.0088</td> <td>--</td> </tr> <tr> <td><b>NMOG (Non-methane organic gases)</b></td> <td>0</td> <td>--</td> </tr> </tbody> </table> |                                                     |                                                          |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | <b>METHANE (CH4 - Methane)</b> | 0.0013   | -- | <b>CO (Carbon Monoxide)</b> | 0 | -- | <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -1.4 | -- | <b>DT-EER (Drive Trace Energy Economy Rating)</b> | -1.15 | -- | <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b> | -2.14 | -- | <b>MFR FE (Manufacturer Fuel Economy)</b> | 18.7229 | 18.7229 | <b>NOX (Nitrogen Oxide)</b> | 0.0088 | -- | <b>NMOG (Non-methane organic gases)</b> | 0 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                               | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>METHANE (CH4 - Methane)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0013                                              | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>CO (Carbon Monoxide)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                   | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -1.4                                                | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -1.15                                               | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -2.14                                               | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 18.7229                                             | 18.7229                                                  |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>NOX (Nitrogen Oxide)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0088                                              | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>NMOG (Non-methane organic gases)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                   | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
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| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                               | Verify Calculated CO2                                    |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Carbon dioxide</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 466.6815                                            | --                                                       |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LQ2 2.5T X-PRO 5250 18inch E10 - SC03 (Normal mode) |                                                          |                                                    |                  |                       |                                                          |                                |          |    |                             |   |    |                                                           |      |    |                                                   |       |    |                                                        |       |    |                                           |         |         |                             |        |    |                                         |   |    |

## Certification Summary Information Report

| Test Group           |               | VKMXT02.5MP3              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VKMXR0151MPG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 30     | CO            | 0              | --                           | --               | --                       | 0.18   | --      | 0.18                | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0              | --                           | 1.03             | --                       | 0.0022 | --      | 0.002               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0088         | --                           | --               | --                       | --     | --      | 0.014               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0088         | --                           | --               | --                       | 0.0028 | --      | 0.012               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | CO            | 0              | --                           | --               | --                       | 0.18   | --      | 0.2                 | 1.0      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NMOG          | 0              | --                           | 1.03             | --                       | 0.0022 | --      | 0.002               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NMOG+NOX      | 0.0088         | --                           | --               | --                       | --     | --      | 0.014               | 0.030    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV30 | NOX           | 0.0088         | --                           | --               | --                       | 0.0028 | --      | 0.012               | 99.999   | Pass      |

## Certification Summary Information Report

| Test Group                                                                | VKMXT02.5MP3                                       | Evaporative/Refueling Family                                              | VKMXR0151MPG |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>19E-03</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 46 - CARB LEV3 E10 Regular Gasoline                | <b>Fuel Batch Calibration Date</b>                                        | 08/08/2019   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 10/29/2019                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 10/29/2022   |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.75         |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.6                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17917        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.827                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>25D-01</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 28 - Cold CO E10 Regular Gasoline (Tier 3)         | <b>Fuel Batch Calibration Date</b>                                        | 02/25/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 04/02/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 04/02/2028   |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.743        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.9                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | --           |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | 41.694                                             | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | 0.828        |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | --                                                 | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>19T-03</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>                                        | 08/22/2019   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 04/13/2020                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 04/13/2023   |
| <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>                                    | 9.8                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17949        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.826                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>43732</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>2</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 06/13/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 06/13/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |

## Certification Summary Information Report

| Test Group                                                         | VKMXT02.5MP3                                       | Evaporative/Refueling Family                                       | VKMXR0151MPG |
|--------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------|--------------|
| Exhaust Carbon Weight Fraction                                     | --                                                 | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --                                                 | Fuel Specific Gravity                                              | 0.749        |
| Fuel Ethanol Volume Percent (%)                                    | 9.6                                                | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | 17885        |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | 41.37                                              | Fuel Carbon Mass Fraction (E10)                                    | 0.83         |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | 0.828                                              | Weight Fraction CO2                                                | --           |
| Fuel Batch ID                                                      | 25T-02                                             | Fuel Calibration Number                                            | 1            |
| Test Fuel Type                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | Fuel Batch Calibration Date                                        | 08/22/2024   |
| Fuel Batch Calibration Effective Date                              | 03/14/2025                                         | Fuel Batch Calibration Ineffective Date                            | 03/14/2028   |
| Carbon Weight Fraction NMHC                                        | --                                                 | Carbon Weight Fraction HC                                          | --           |
| Exhaust Carbon Weight Fraction                                     | --                                                 | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --                                                 | Fuel Specific Gravity                                              | 0.743        |
| Fuel Ethanol Volume Percent (%)                                    | 9.8                                                | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | --           |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | 41.498                                             | Fuel Carbon Mass Fraction (E10)                                    | 0.828        |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | --                                                 | Weight Fraction CO2                                                | --           |
| Fuel Batch ID                                                      | 26757                                              | Fuel Calibration Number                                            | 1            |
| Test Fuel Type                                                     | 46 - CARB LEV3 E10 Regular Gasoline                | Fuel Batch Calibration Date                                        | 07/27/2017   |
| Fuel Batch Calibration Effective Date                              | 07/27/2017                                         | Fuel Batch Calibration Ineffective Date                            | 07/27/2032   |
| Carbon Weight Fraction NMHC                                        | --                                                 | Carbon Weight Fraction HC                                          | --           |
| Exhaust Carbon Weight Fraction                                     | --                                                 | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --                                                 | Fuel Specific Gravity                                              | 0.749        |
| Fuel Ethanol Volume Percent (%)                                    | 9.8                                                | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | 17958        |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | --                                                 | Fuel Carbon Mass Fraction (E10)                                    | --           |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | 0.827                                              | Weight Fraction CO2                                                | --           |

## Certification Summary Information Report

|                                |               |                                               |     |             |                                 |                                   |         |                           |        |
|--------------------------------|---------------|-----------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|---------------------------|--------|
| Test Group                     |               | VKMXT02.5MP3                                  |     |             | Evaporative/Refueling Family    |                                   |         | VKMXR0151MPG              |        |
| Consolidated List of Standards |               |                                               |     |             |                                 |                                   |         |                           |        |
| Exhaust Standards              |               |                                               |     |             |                                 |                                   |         |                           |        |
| Cert Region                    |               | Federal                                       |     |             | Cert/In-Use Code                |                                   |         | Cert                      |        |
| Vehicle Class                  |               | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 30     |        |
| Fuel                           |               | Gasoline                                      |     |             | Test Procedure                  |                                   |         | US06                      |        |
| Useful Life                    | Emission Name | Rounded Result                                | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                    | Std    |
| 150,000 miles                  | CO            | --                                            | --  | --          | --                              | --                                | --      | 0.18                      | 99.999 |
| 150,000 miles                  | NMOG          | --                                            | --  | 1.03        | --                              | --                                | --      | 0.0022                    | 99.999 |
| 150,000 miles                  | NMOG+NOX      | --                                            | --  | --          | --                              | --                                | --      | 0                         | 99.999 |
| 150,000 miles                  | NOX           | --                                            | --  | --          | --                              | --                                | --      | 0.0028                    | 99.999 |
| 150,000 miles                  | PM            | --                                            | --  | --          | --                              | --                                | --      | 0                         | 0.006  |
|                                |               |                                               |     |             |                                 |                                   |         |                           |        |
| Cert Region                    |               | Federal                                       |     |             | Cert/In-Use Code                |                                   |         | Cert                      |        |
| Vehicle Class                  |               | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 30     |        |
| Fuel                           |               | Gasoline                                      |     |             | Test Procedure                  |                                   |         | Cold CO                   |        |
| Useful Life                    | Emission Name | Rounded Result                                | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                    | Std    |
| 50,000 miles                   | CO            | --                                            | --  | --          | --                              | --                                | --      | 0.06                      | 12.5   |
| 120,000 miles                  | HC-NM         | --                                            | --  | --          | --                              | --                                | --      | 0.0016                    | 0.5    |
|                                |               |                                               |     |             |                                 |                                   |         |                           |        |
| Cert Region                    |               | California + CAA Section 177 states           |     |             | Cert/In-Use Code                |                                   |         | Cert                      |        |
| Vehicle Class                  |               | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | California LEV-IV SULEV30 |        |
| Fuel                           |               | Gasoline                                      |     |             | Test Procedure                  |                                   |         | SC03                      |        |
| Useful Life                    | Emission Name | Rounded Result                                | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                    | Std    |
| 150,000 miles                  | CO            | --                                            | --  | --          | --                              | --                                | --      | 0.18                      | 1.0    |
| 150,000 miles                  | NMOG          | --                                            | --  | 1.03        | --                              | --                                | --      | 0.0022                    | 99.999 |
| 150,000 miles                  | NMOG+NOX      | --                                            | --  | --          | --                              | --                                | --      | 0                         | 0.030  |
| 150,000 miles                  | NOX           | --                                            | --  | --          | --                              | --                                | --      | 0.0028                    | 99.999 |

## Certification Summary Information Report

|                      |                      |                                               |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|-----------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Test Group</b>    |                      | VKMXT02.5MP3                                  |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VKMXR0151MPG                            |            |
| <b>Cert Region</b>   |                      | Federal                                       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30                   |            |
| <b>Fuel</b>          |                      | Gasoline                                      |            |                    | <b>Test Procedure</b>                  |                                          |                | Federal fuel 2-day exhaust (w/can load) |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                         | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                           | <b>Std</b> |
| 120,000 miles        | CREE                 | --                                            | --         | --                 | --                                     | --                                       | --             | 0.247782                                | 999        |
| 120,000 miles        | METHANE              | --                                            | --         | --                 | --                                     | --                                       | --             | 0.0019                                  | 0.030      |
| 120,000 miles        | N2O                  | --                                            | --         | --                 | --                                     | --                                       | --             | 0.0024                                  | 0.010      |
| 150,000 miles        | CO                   | --                                            | --         | --                 | --                                     | --                                       | --             | 0.18                                    | 1.0        |
| 150,000 miles        | CO-COMP              | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 4.2        |
| 150,000 miles        | HCHO                 | --                                            | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |
| 150,000 miles        | NMOG                 | --                                            | --         | 1.1                | --                                     | --                                       | --             | 0.0022                                  | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 0.030      |
| 150,000 miles        | NMOG+NOX-COMP        | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 0.030      |
| 150,000 miles        | NOX                  | --                                            | --         | --                 | --                                     | --                                       | --             | 0.0028                                  | 99.999     |
| 150,000 miles        | PM                   | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 0.003      |
|                      |                      |                                               |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states           |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV30               |            |
| <b>Fuel</b>          |                      | Gasoline                                      |            |                    | <b>Test Procedure</b>                  |                                          |                | US06                                    |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                         | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                           | <b>Std</b> |
| 150,000 miles        | CO                   | --                                            | --         | --                 | --                                     | --                                       | --             | 0.18                                    | 9.6        |
| 150,000 miles        | NMOG                 | --                                            | --         | 1.03               | --                                     | --                                       | --             | 0.0022                                  | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 0.036      |
| 150,000 miles        | NOX                  | --                                            | --         | --                 | --                                     | --                                       | --             | 0.0028                                  | 99.999     |
| 150,000 miles        | PM                   | --                                            | --         | --                 | --                                     | --                                       | --             | 0.0006                                  | 0.006      |

## Certification Summary Information Report

|                      |                      |                                               |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|-----------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Test Group</b>    |                      | VKMXT02.5MP3                                  |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VKMXR0151MPG                            |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states           |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV30               |            |
| <b>Fuel</b>          |                      | Gasoline                                      |            |                    | <b>Test Procedure</b>                  |                                          |                | Federal fuel 2-day exhaust (w/can load) |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                         | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                           | <b>Std</b> |
| 150,000 miles        | CO                   | --                                            | --         | --                 | --                                     | --                                       | --             | 0.18                                    | 1.0        |
| 150,000 miles        | HCHO                 | --                                            | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |
| 150,000 miles        | NMOG                 | --                                            | --         | 1.1                | --                                     | --                                       | --             | 0.0022                                  | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 0.030      |
| 150,000 miles        | NOX                  | --                                            | --         | --                 | --                                     | --                                       | --             | 0.0028                                  | 99.999     |
| 150,000 miles        | PM                   | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 0.001      |
|                      |                      |                                               |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states           |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV30               |            |
| <b>Fuel</b>          |                      | Gasoline                                      |            |                    | <b>Test Procedure</b>                  |                                          |                | Fed. fuel 50 F exh.                     |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                         | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                           | <b>Std</b> |
| 4,000 miles          | CO                   | --                                            | --         | --                 | --                                     | --                                       | --             | --                                      | 1.0        |
| 4,000 miles          | HCHO                 | --                                            | --         | --                 | --                                     | --                                       | --             | --                                      | 0.008      |
| 4,000 miles          | NMOG                 | --                                            | --         | 1.1                | --                                     | --                                       | --             | --                                      | 99.999     |
| 4,000 miles          | NMOG+NOX             | --                                            | --         | --                 | --                                     | --                                       | 1              | --                                      | 0.060      |
| 4,000 miles          | NOX                  | --                                            | --         | --                 | --                                     | --                                       | --             | --                                      | 99.999     |
|                      |                      |                                               |            |                    |                                        |                                          |                |                                         |            |
| <b>Cert Region</b>   |                      | Federal                                       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                                    |            |
| <b>Vehicle Class</b> |                      | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30                   |            |
| <b>Fuel</b>          |                      | Gasoline                                      |            |                    | <b>Test Procedure</b>                  |                                          |                | SC03                                    |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                         | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                           | <b>Std</b> |
| 150,000 miles        | CO                   | --                                            | --         | --                 | --                                     | --                                       | --             | 0.18                                    | 99.999     |
| 150,000 miles        | NMOG                 | --                                            | --         | 1.03               | --                                     | --                                       | --             | 0.0022                                  | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                            | --         | --                 | --                                     | --                                       | --             | 0                                       | 99.999     |
| 150,000 miles        | NOX                  | --                                            | --         | --                 | --                                     | --                                       | --             | 0.0028                                  | 99.999     |

## Certification Summary Information Report

| Test Group                      |               | VKMXT02.5MP3                                  |     |             | Evaporative/Refueling Family    |                                   |         | VKMXR0151MPG              |        |  |
|---------------------------------|---------------|-----------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|---------------------------|--------|--|
|                                 |               |                                               |     |             |                                 |                                   |         |                           |        |  |
| Cert Region                     |               | Federal                                       |     |             | Cert/In-Use Code                |                                   |         | Cert                      |        |  |
| Vehicle Class                   |               | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 30     |        |  |
| Fuel                            |               | Gasoline                                      |     |             | Test Procedure                  |                                   |         | HWFE                      |        |  |
| Useful Life                     | Emission Name | Rounded Result                                | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                    | Std    |  |
| 120,000 miles                   | CREE          | --                                            | --  | --          | --                              | --                                | --      | 0.247782                  | 999    |  |
| 150,000 miles                   | NMOG          | --                                            | --  | 1.03        | --                              | --                                | --      | 0.0022                    | 99.999 |  |
| 150,000 miles                   | NMOG+NOX      | --                                            | --  | --          | --                              | --                                | --      | 0                         | 0.030  |  |
| 150,000 miles                   | NOX           | --                                            | --  | --          | --                              | --                                | --      | 0.0028                    | 99.999 |  |
|                                 |               |                                               |     |             |                                 |                                   |         |                           |        |  |
| Cert Region                     |               | California + CAA Section 177 states           |     |             | Cert/In-Use Code                |                                   |         | Cert                      |        |  |
| Vehicle Class                   |               | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | California LEV-IV SULEV30 |        |  |
| Fuel                            |               | Gasoline                                      |     |             | Test Procedure                  |                                   |         | HWFE                      |        |  |
| Useful Life                     | Emission Name | Rounded Result                                | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                    | Std    |  |
| 150,000 miles                   | NMOG          | --                                            | --  | 1.03        | --                              | --                                | --      | 0.0022                    | 99.999 |  |
| 150,000 miles                   | NMOG+NOX      | --                                            | --  | --          | --                              | --                                | --      | 0                         | 0.030  |  |
| 150,000 miles                   | NOX           | --                                            | --  | --          | --                              | --                                | --      | 0.0028                    | 99.999 |  |
|                                 |               |                                               |     |             |                                 |                                   |         |                           |        |  |
| Cert Region                     |               | California + CAA Section 177 states           |     |             | Cert/In-Use Code                |                                   |         | Cert                      |        |  |
| Vehicle Class                   |               | LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | California LEV-IV SULEV30 |        |  |
| Fuel                            |               | Gasoline                                      |     |             | Test Procedure                  |                                   |         | Cold CO                   |        |  |
| Useful Life                     | Emission Name | Rounded Result                                | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                    | Std    |  |
| 50,000 miles                    | CO            | --                                            | --  | --          | --                              | --                                | --      | 0.06                      | 12.5   |  |
|                                 |               |                                               |     |             |                                 |                                   |         |                           |        |  |
| Evaporative/Refueling Standards |               |                                               |     |             |                                 |                                   |         |                           |        |  |

## Certification Summary Information Report

|                              |  |                                 |  |                              |  |                                        |  |       |  |        |  |
|------------------------------|--|---------------------------------|--|------------------------------|--|----------------------------------------|--|-------|--|--------|--|
| Test Group                   |  | VKMXT02.5MP3                    |  | Evaporative/Refueling Family |  | VKMXR0151MPG                           |  |       |  |        |  |
| Evaporative/Refueling Family |  | VKMXR0151MPG                    |  | Cert Region                  |  | California + CAA Section 177 states    |  |       |  |        |  |
| Cert/In-Use Code             |  | Cert                            |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |       |  |        |  |
| Test Procedure               |  | Leak Test - Port Near Fuel Pipe |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                     |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                   |  | LEAK-DIA                     |  | --                                     |  | 0.02  |  | 0      |  |
|                              |  |                                 |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VKMXR0151MPG                    |  | Cert Region                  |  | Federal                                |  |       |  |        |  |
| Cert/In-Use Code             |  | Cert                            |  | Standard Level               |  | Federal Tier 3 Evap                    |  |       |  |        |  |
| Test Procedure               |  | Evap Canister Bleed Test        |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                     |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                   |  | HC-TOTAL                     |  | --                                     |  | 0.020 |  | 0      |  |
|                              |  |                                 |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VKMXR0151MPG                    |  | Cert Region                  |  | Federal                                |  |       |  |        |  |
| Cert/In-Use Code             |  | Cert                            |  | Standard Level               |  | Federal Tier 3 Evap                    |  |       |  |        |  |
| Test Procedure               |  | California Fuel Running Loss    |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                     |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                   |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.05  |  | 0      |  |
|                              |  |                                 |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VKMXR0151MPG                    |  | Cert Region                  |  | California + CAA Section 177 states    |  |       |  |        |  |
| Cert/In-Use Code             |  | Cert                            |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |       |  |        |  |
| Test Procedure               |  | Leak Test - Port Near Canister  |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                     |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                   |  | LEAK-DIA                     |  | --                                     |  | 0.02  |  | 0      |  |
|                              |  |                                 |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VKMXR0151MPG                    |  | Cert Region                  |  | Federal                                |  |       |  |        |  |
| Cert/In-Use Code             |  | Cert                            |  | Standard Level               |  | Federal Tier 3 Evap                    |  |       |  |        |  |
| Test Procedure               |  | California fuel 2-day evap      |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                     |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                   |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.500 |  | 0      |  |
|                              |  |                                 |  |                              |  |                                        |  |       |  |        |  |

## Certification Summary Information Report

|                              |               |                                    |                |                              |        |                                        |  |
|------------------------------|---------------|------------------------------------|----------------|------------------------------|--------|----------------------------------------|--|
| Test Group                   |               | VKMXT02.5MP3                       |                | Evaporative/Refueling Family |        | VKMXR0151MPG                           |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | California Fuel Running Loss       |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.05                         | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | CA fuel 3-day evap.                |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Leak Test - Port Near Canister     |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | LEAK-DIA                           | --             | 0.020                        | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Leak Test - Port Near Fuel Pipe    |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | LEAK-DIA                           | --             | 0.020                        | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.20                         | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |

## Certification Summary Information Report

|                              |               |                                    |                |                              |        |                                        |  |
|------------------------------|---------------|------------------------------------|----------------|------------------------------|--------|----------------------------------------|--|
| Test Group                   |               | VKMXT02.5MP3                       |                | Evaporative/Refueling Family |        | VKMXR0151MPG                           |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Evap Canister Bleed Test           |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL                           | --             | 0.020                        | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | California fuel 2-day evap         |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.20                         | 0      |                                        |  |
|                              |               |                                    |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VKMXR0151MPG                       |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Cert                               |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | CA fuel 3-day evap.                |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             | 0.500                        | 0      |                                        |  |

## Certification Summary Information Report

| Test Group           |                                                                 | VKMXT02.5MP3 | Evaporative/Refueling Family |                                                            | VKMXR0151MPG |
|----------------------|-----------------------------------------------------------------|--------------|------------------------------|------------------------------------------------------------|--------------|
| Glossary             |                                                                 |              |                              |                                                            |              |
| Useful Life          |                                                                 |              |                              |                                                            |              |
| 4                    | 4,000 miles                                                     |              | 120                          | 120,000 miles                                              |              |
| 50                   | 50,000 miles                                                    |              | 150                          | 150,000 miles                                              |              |
| 100                  | 100,000 miles                                                   |              |                              |                                                            |              |
| Emission Name        |                                                                 |              |                              |                                                            |              |
| HC-TOTAL             | Total Hydrocarbon                                               |              | 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 Region |                                                                 |              |                              |                                                            |              |

## Certification Summary Information Report

| Test Group                             |                                                   | VKMXT02.5MP3 | Evaporative/Refueling Family |                                                      | VKMXR0151MPG |
|----------------------------------------|---------------------------------------------------|--------------|------------------------------|------------------------------------------------------|--------------|
| 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                            |              |

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| Test Group                           |                                                                   | VKMXT02.5MP3 | Evaporative/Refueling Family                             |                           | VKMXR0151MPG |
|--------------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|---------------------------|--------------|
| 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                                             |                           |              |