

## Certification Summary Information Report

|                                   |                  |                                     |                        |
|-----------------------------------|------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Mercedes Benz    | <b>Manufacturer Code</b>            | MBX                    |
| <b>Test Group</b>                 | VMBXD02.0HD5     | <b>Evaporative/Refueling Family</b> | --                     |
| <b>Certificate Number</b>         | VMBXD02.0HD5-030 | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | 08/28/2026       | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | 08/28/2026       | <b>Conditional Certificate</b>      | No                     |
| <b>CSI Revision #</b>             | --               | <b>CSI Submission/Revision Date</b> | 08/20/2026 11:00:03 AM |
| <b>Model Year</b>                 | 2027             |                                     |                        |

  
**Test Group Information**

|                          |                       |                                        |    |
|--------------------------|-----------------------|----------------------------------------|----|
| <b>CSI Type</b>          | Update for Correction | <b>Running Change Reference Number</b> | -- |
| <b>GHG Exempt Status</b> | Conditional Exemption |                                        |    |

  
**Drive Sources and Fuel(s)**

**Drive Source #1:** Combustion Engine

| Fuel   | Basic Fuel Metering System          | Lean Burn Strategy Indicator |
|--------|-------------------------------------|------------------------------|
| Diesel | Common Rail Direct Diesel Injection | --                           |

  

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            |              |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | No                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Rechargeable Energy Storage System Indicator</b>        | --           |
| <b>Multiple Fuel Combustion</b>                     | --                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Off-board Charge Capable Indicator</b>                  | --           |
| <b>Fuel Cell Indicator</b>                          | --                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>EPA Vehicle Class</b>                                   | HDV2, M7     |
| <b>Federal Clean Fuel Vehicle</b>                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Federal Clean Fuel Vehicle Standard</b>                 | --           |
| <b>Federal Clean Fuel Vehicle ILEV</b>              | No                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>California Partial Zero Emissions Vehicle Indicator</b> | --           |
| <b>Durability Group Name</b>                        | VMBXDPDNNPP4                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Durability Group Equivalency Factor</b>                 | 1.0          |
| <b>Reduced Fee Test Group</b>                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Certification Region Code(s)</b>                        | FA, CA       |
| <b>Complies with HD GHG 2b/3 regulations?</b>       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |              |
| <b>Introduction into Commerce Date</b>              | 10/01/2026                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>CAP2000 Conditional Certificate?</b>                    | No           |
| <b>Independent Commercial Importer?</b>             | No                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Alternative Fuel Converter Certificate?</b>             | No           |
| <b>SFTP Federal Composite Compliance Identifier</b> | Tier 3                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>SFTP Tier 2 Composite CO Option</b>                     | No           |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>OBD Demonstration Vehicle Test Group</b>                | SMBXD02.0HD3 |
| <b>Test Group OBD Compliance Level</b>              | Partial - with deficiencies and penalty                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Number of Test Group OBD Deficiencies</b>               | 5            |
| <b>OBD Deficiencies Comments</b>                    | E-26-175                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | Interim Tier 4 Test Group; Sales: Federal = Nationwide (50 states), CA = CA + 177 states. According to Rescission of the Greenhouse Gas Endangerment Finding and Motor Vehicle Greenhouse Gas Emission Standards Under the Clean Air Act, 91 Fed. Reg. 7686 (Feb. 18, 2026) (to be codified at 40 C.F.R. pts. 85, 86, 600, 1036, 1037, 1039) no GHG report will be provided for this model year. Therefore GHG Exempt Status is set to "CE&quot;. |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |              |

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| Test Group                         | VMBXD02.0HD5      |                            |                                     | Evaporative/Refueling Family |              | --           |                |
|------------------------------------|-------------------|----------------------------|-------------------------------------|------------------------------|--------------|--------------|----------------|
| Models Covered by this Certificate |                   |                            |                                     |                              |              |              |                |
| Carline Manufacturer               | Division          | Carline                    | Certification Region Code(s)        | Drive System                 | Trans - Type | - # of Gears | Trans - Lockup |
| Mercedes Benz                      | 1 - Mercedes-Benz | 629 - Sprinter 3500 XD AWD | California + CAA Section 177 states | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 631 - Sprinter 4500        | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 624 - Sprinter 3500 XD     | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 627 - Sprinter 3500 XD AWD | Federal                             | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 633 - Sprinter 4500        | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 631 - Sprinter 4500        | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 624 - Sprinter 3500 XD     | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 623 - Sprinter 3500 XD     | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 622 - Sprinter 3500 XD     | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 626 - Sprinter 3500 XD AWD | California + CAA Section 177 states | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 623 - Sprinter 3500 XD     | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 628 - Sprinter 3500 XD AWD | Federal                             | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 632 - Sprinter 4500        | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 633 - Sprinter 4500        | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 630 - Sprinter 4500        | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 629 - Sprinter 3500 XD AWD | Federal                             | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 622 - Sprinter 3500 XD     | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 630 - Sprinter 4500        | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 632 - Sprinter 4500        | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 627 - Sprinter 3500 XD AWD | California + CAA Section 177 states | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 625 - Sprinter 3500 XD     | California + CAA Section 177 states | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 626 - Sprinter 3500 XD AWD | Federal                             | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 628 - Sprinter 3500 XD AWD | California + CAA Section 177 states | All Wheel Drive              | Automatic    | 9            | Yes            |
| Mercedes Benz                      | 1 - Mercedes-Benz | 625 - Sprinter 3500 XD     | Federal                             | 2-Wheel Drive, Rear          | Automatic    | 9            | Yes            |

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|--------------------------------------------------|-------------------------------|----------------------------------------------------------|---------------------------|-------------------------------|
| <b>Test Group</b>                                | VMBXD02.0HD5                  | <b>Evaporative/Refueling Family</b>                      | --                        |                               |
| <b>Engine Description</b>                        |                               |                                                          |                           |                               |
| <b>Hybrid Type</b>                               | --                            | <b>Hybrid Description</b>                                | --                        |                               |
| <b>Engine Type</b>                               | 4-Stroke Compression 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>                      | 0W30                      |                               |
| <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                                                | Oxidation catalyst            | Platinum + Palladium                                     | Ceramic                   | Monolith                      |
| 2                                                | Selective Catalytic Reduction | no precious metal / copper                               | Ceramic                   | Monolith                      |
| 3                                                | Diesel Particulate Filter     | no precious metal / copper                               | Ceramic                   | Monolith                      |
| 4                                                | Selective Catalytic Reduction | no precious metal / copper                               | Ceramic                   | Monolith                      |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                               |                                                          |                           |                               |
| --                                               |                               |                                                          |                           |                               |
| <b>Direct Ozone Reduction (DOR) Device</b>       |                               |                                                          |                           |                               |
| Not Equipped                                     |                               |                                                          |                           |                               |
| <b>Mfr Emission Control Device Comments</b>      |                               |                                                          |                           |                               |
| --                                               |                               |                                                          |                           |                               |
| <b>Engine Configuration Number 1</b>             |                               |                                                          |                           |                               |
| <b>Engine Displacement (liters)</b>              | 2.0                           | <b>Engine Rated Horsepower</b>                           | 208                       |                               |
| <b>Number of Inlet Valves Per Cylinder</b>       | 2                             | <b>Number of Exhaust Valves Per Cylinder</b>             | 2                         |                               |
| <b>Air Aspiration Method</b>                     | Turbocharged                  | <b>Number of Air Aspiration Devices</b>                  | 2                         |                               |
| <b>Air Aspiration Device Configuration</b>       | Series                        | <b>Charge Air Cooler Type</b>                            | Liquid                    |                               |
| <b>Air Aspiration Drive Method(s)</b>            | Mechanical                    |                                                          |                           |                               |
| <b>Cylinder Deactivation</b>                     | No                            |                                                          |                           |                               |
| <b>Cylinder Deactivation Description</b>         | --                            |                                                          |                           |                               |
| <b>Variable Valve Timing</b>                     | No                            |                                                          |                           |                               |
| <b>Variable Valve Timing System Description</b>  | --                            |                                                          |                           |                               |
| <b>Variable Valve Lift?</b>                      | No                            |                                                          |                           |                               |
| <b>Variable Valve Lift System Description</b>    | --                            |                                                          |                           |                               |
| <b>Number of Knock Sensors</b>                   | 0                             | <b>Number of Air/Fuel Sensors</b>                        | 0                         |                               |
| <b>Mfr Air/Fuel Sensor Comments</b>              | --                            |                                                          |                           |                               |
| <b>Exhaust Gas Recirculation</b>                 | Yes                           | <b>Cooled Exhaust Gas Recirculation</b>                  | Yes                       |                               |
| <b>EGR Type</b>                                  | Electronic/Electric           | <b>Exhaust Gas Recirculation Description if 'Other'</b>  | --                        |                               |
| <b>Closed Loop Air Injection System</b>          | No                            |                                                          |                           |                               |
| <b>Air Injection Type</b>                        | Not Applicable                | <b>Air Injection Type if 'Other'</b>                     | --                        |                               |
| <b>Mfr Engine Configuration Comments</b>         | --                            |                                                          |                           |                               |

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|-------------------------------------------------|---------------------|---------------------------------------------------------|--------------|-------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | VMBXD02.0HD5        | <b>Evaporative/Refueling Family</b>                     | --           |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 2</b>            |                     |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 2.0                 | <b>Engine Rated Horsepower</b>                          | 168          |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Inlet Valves Per Cylinder</b>      | 2                   | <b>Number of Exhaust Valves Per Cylinder</b>            | 2            |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Method</b>                    | Turbocharged        | <b>Number of Air Aspiration Devices</b>                 | 2            |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Device Configuration</b>      | Series              | <b>Charge Air Cooler Type</b>                           | Liquid       |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Drive Method(s)</b>           | Mechanical          |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation</b>                    | No                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation Description</b>        | --                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing</b>                    | No                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing System Description</b> | --                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | No                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | --                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 0                   | <b>Number of Air/Fuel Sensors</b>                       | 0            |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Air/Fuel Sensor Comments</b>             | --                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Exhaust Gas Recirculation</b>                | Yes                 | <b>Cooled Exhaust Gas Recirculation</b>                 | Yes          |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | Electronic/Electric | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --           |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Closed Loop Air Injection System</b>         | No                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Injection Type</b>                       | Not Applicable      | <b>Air Injection Type if 'Other'</b>                    | --           |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Engine Configuration Comments</b>        | --                  |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Official Test Numbers</b>                    |                     |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group</b>                               | <b>Fuel</b>         | <b>FTP</b>                                              | <b>US06</b>  | <b>SC03</b> | <b>Cold CO</b> | <b>Highway</b> | <b>EPA City Litmus Value</b> | <b>EPA City Litmus Threshold</b> | <b>EPA Highway Litmus Value</b> | <b>EPA Highway Litmus Threshold</b> | <b>CREE Weighting Factor</b> |
| Diesel                                          | SMBX91005934        | SMBX91005935                                            | SMBX10086084 | --          | SMBX91005954   | --             | 12.8                         | --                               | 13.2                            | --                                  |                              |
| <b>SFTP LEV-III Official Test Numbers</b>       |                     |                                                         |              |             |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group Fuel</b>                          | <b>FTP</b>          | <b>US06</b>                                             | <b>SC03</b>  |             |                |                |                              |                                  |                                 |                                     |                              |
| Diesel                                          | SMBX91005934        | SMBX91005935                                            | SMBX10086084 |             |                |                |                              |                                  |                                 |                                     |                              |

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| Test Group                                     | VMBXD02.0HD5                                                                                 | Evaporative/Refueling Family          | --                                          |
|------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|
| <b>Test #</b>                                  | <b>SMBX91005934</b>                                                                          | <b>Test Procedure</b>                 | <b>2 - CVS 75 and later (w/o can. load)</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                                                                           | <b>Test Fuel Type</b>                 | 19 - Federal Cert Diesel 7-15 PPM Sulfur    |
| <b>Test Date</b>                               | 05/29/2024                                                                                   | <b>Fuel</b>                           | Diesel                                      |
| <b>Fuel Batch ID</b>                           | 28879                                                                                        | <b>Fuel Calibration Number</b>        | 2                                           |
| <b>Vehicle Class</b>                           | HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | <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>             | 4025                                                                                         | <b>Odometer Units</b>                 | M                                           |
| <b>4WD Test Dyno</b>                           | No                                                                                           | <b>Diesel Adjustment Factor Usage</b> | U                                           |
| <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>                            |                                                                                              |                                       |                                             |

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| Test Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | VMBXD02.0HD5                                                                                                                                                                                                                                                                                                                                                | Evaporative/Refueling Family                             | -- |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
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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>690.616272</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>14.721488</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>591.4360962</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>17.2045784</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>638.1870117</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>15.9445057</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0102893</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0667828</td><td>--</td></tr><tr><td>METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only)</td><td>0.0062924</td><td>--</td></tr><tr><td>N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only)</td><td>0.0342433</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-0.8218499</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.5823001</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-1.6929611</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>16.2822819</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0242679</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0437184</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0025264</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0025264</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0003743</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.012414</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) | 690.616272   | --  | FE BAG 1 (Bag 1 Fuel Economy) | 14.721488 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 591.4360962 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 17.2045784 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 638.1870117 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 15.9445057 | -- | METHANE (CH4 - Methane) | 0.0102893 | -- | CO (Carbon Monoxide) | 0.0667828 | -- | METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only) | 0.0062924 | -- | N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only) | 0.0342433 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.8218499 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.5823001 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | -1.6929611 | -- | MFR FE (Manufacturer Fuel Economy) | 16.2822819 | -- | NOX (Nitrogen Oxide) | 0.0242679 | -- | N2O (Nitrous Oxide) | 0.0437184 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0025264 | -- | NMOG (Non-methane organic gases) | 0.0025264 | -- | PM (Particulate Matter) | 0.0003743 | -- | HC-TOTAL (Total Hydrocarbon) | 0.012414 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                       | Verify Calculated FE Equivalent Value (miles per gallon) |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 690.616272                                                                                                                                                                                                                                                                                                                                                  | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 14.721488                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 591.4360962                                                                                                                                                                                                                                                                                                                                                 | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 17.2045784                                                                                                                                                                                                                                                                                                                                                  | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 638.1870117                                                                                                                                                                                                                                                                                                                                                 | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 15.9445057                                                                                                                                                                                                                                                                                                                                                  | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0102893                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0667828                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0062924                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0342433                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.8218499                                                                                                                                                                                                                                                                                                                                                  | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -0.5823001                                                                                                                                                                                                                                                                                                                                                  | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -1.6929611                                                                                                                                                                                                                                                                                                                                                  | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16.2822819                                                                                                                                                                                                                                                                                                                                                  | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0242679                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0437184                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0025264                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0025264                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0003743                                                                                                                                                                                                                                                                                                                                                   | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.012414                                                                                                                                                                                                                                                                                                                                                    | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| <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>625</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |                                                          |    | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE                          | Carbon-Related Exhaust Emissions | 9999.9999999 | 625 |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                       | Verify Calculated CREE/OPT-CREE                          |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9999.9999999                                                                                                                                                                                                                                                                                                                                                | 625                                                      |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>624.8206177</td><td>--</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |                                                          |    | Test Result Name | Unrounded Test Result | Verify Calculated CO2                                    | Carbon dioxide                   | 624.8206177  | --  |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                       | Verify Calculated CO2                                    |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 624.8206177                                                                                                                                                                                                                                                                                                                                                 | --                                                       |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |
| Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Amendment to Report COMP4191002MBX (test number 20240191002, EV-CIS submission SMBX91005934); at IACD request, this test submission was modified to add N2O-COMB and METHANE-COMB (values provided by IACD). No other values were changed. EVCIS FTP test number SMBX91005934 and Hwy test number SMBX91005933 were used to calculate this combined result. |                                                          |    |                  |                       |                                                          |                                  |              |     |                               |           |    |                                  |             |    |                               |            |    |                                  |             |    |                               |            |    |                         |           |    |                      |           |    |                                                       |           |    |                                                             |           |    |                                                    |            |    |                                            |            |    |                                                 |            |    |                                    |            |    |                      |           |    |                     |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |          |    |

## Certification Summary Information Report

| Test Group           |               | VMBXD02.0HD5                      |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|-----------------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 HD Class 3 Bin 230 | CO            | 0.07           | --  | --                           | 0.0396 UP                | 0.21   | --      | 0.3                 | 4.2      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | CO-COMP       | 0.34           | --  | --                           | 0 UP                     | --     | --      | 0.3                 | 4.0      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | METHANE       | 0.0103         | --  | --                           | 0.0057 UP                | 0.0054 | --      | 0.021               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | METHANE-COMB  | 0.006          | --  | --                           | 0 UP                     | 0.0054 | --      | 0.01                | 0.05     | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | N2O           | 0.0437         | --  | --                           | 0.0027 UP                | 0.008  | --      | 0.054               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | N2O-COMB      | 0.034          | --  | --                           | 0 UP                     | 0.008  | --      | 0.04                | 0.05     | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG          | 0.0025         | --  | 1                            | 0.001 UP                 | 0.0107 | --      | 0.014               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX      | 0.0268         | --  | --                           | 0 UP                     | --     | --      | 0.053               | 0.230    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX-COMP | 0.028          | --  | --                           | 0 UP                     | --     | --      | 0.028               | 0.350    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NOX           | 0.0243         | --  | --                           | 0.0073 UP                | 0.0068 | --      | 0.038               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | PM            | 0.0004         | --  | --                           | 0.0007 UP                | 0.0001 | --      | 0.001               | 0.010    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | PM-COMP       | 0.0004         | --  | --                           | 0 UP                     | --     | --      | 0                   | 0.007    | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | CO            | 0.07           | --  | --                           | 0.0396 UP                | 0.21   | --      | 0.3                 | 4.2      | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | NMOG          | 0.0025         | --  | 1                            | 0.001 UP                 | 0.0107 | --      | 0.014               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | NMOG+NOX      | 0.0268         | --  | --                           | 0 UP                     | --     | --      | 0.053               | 0.230    | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | NOX           | 0.0243         | --  | --                           | 0.0073 UP                | 0.0068 | --      | 0.038               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | PM            | 0.0004         | --  | --                           | 0.0007 UP                | 0.0001 | --      | 0.001               | 0.010    | Pass      |

## Certification Summary Information Report

|                                                           |                                                                                              |                                                                 |                                          |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------|
| <b>Test Group</b>                                         | VMBXD02.0HD5                                                                                 | <b>Evaporative/Refueling Family</b>                             | --                                       |
| <b>Test #</b>                                             | <b>SMBX91005954</b>                                                                          | <b>Test Procedure</b>                                           | <b>3 - HWFE</b>                          |
| <b>Exhaust Test # for this Evap Test</b>                  | --                                                                                           | <b>Test Fuel Type</b>                                           | 19 - Federal Cert Diesel 7-15 PPM Sulfur |
| <b>Test Date</b>                                          | 06/17/2024                                                                                   | <b>Fuel</b>                                                     | Diesel                                   |
| <b>Fuel Batch ID</b>                                      | 28879                                                                                        | <b>Fuel Calibration Number</b>                                  | 2                                        |
| <b>Vehicle Class</b>                                      | HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | <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>                        | 4158                                                                                         | <b>Odometer Units</b>                                           | M                                        |
| <b>4WD Test Dyno</b>                                      | No                                                                                           | <b>Diesel Adjustment Factor Usage</b>                           | U                                        |
| <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>                                       |                                                                                              |                                                                 |                                          |
| <b>Test Result Name</b>                                   | <b>Unrounded Test Result</b>                                                                 | <b>Verify Calculated FE Equivalent Value (miles per gallon)</b> |                                          |
| <b>METHANE (CH4 - Methane)</b>                            | 0.0024858                                                                                    | --                                                              |                                          |
| <b>CO (Carbon Monoxide)</b>                               | 0                                                                                            | --                                                              |                                          |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -0.3638455                                                                                   | --                                                              |                                          |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.6807119                                                                                   | --                                                              |                                          |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -0.396474                                                                                    | --                                                              |                                          |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 18.7588978                                                                                   | --                                                              |                                          |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                                                                                            | --                                                              |                                          |
| <b>N2O (Nitrous Oxide)</b>                                | 0.0191966                                                                                    | --                                                              |                                          |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                                                                                            | --                                                              |                                          |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                                                                                            | --                                                              |                                          |
| <b>HC-TOTAL (Total Hydrocarbon)</b>                       | 0.0014115                                                                                    | --                                                              |                                          |
| <b>Test Result Name</b>                                   | <b>Unrounded Test Result</b>                                                                 | <b>Verify Calculated CREE/OPT-CREE</b>                          |                                          |
| <b>Carbon-Related Exhaust Emissions</b>                   | 9999.9999999                                                                                 | 542                                                             |                                          |
| <b>Test Result Name</b>                                   | <b>Unrounded Test Result</b>                                                                 | <b>Verify Calculated CO2</b>                                    |                                          |
| <b>Carbon dioxide</b>                                     | 542.4504395                                                                                  | --                                                              |                                          |
| <b>Manufacturer Test Comments</b>                         | None                                                                                         |                                                                 |                                          |

## Certification Summary Information Report

| Test Group           |               | VMBXD02.0HD5                      |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|-----------------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 HD Class 3 Bin 230 | METHANE       | 0.0025         | --                           | --               | 0.0057 UP                | 0.0054 | --      | 0.014               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | N2O           | 0.0192         | --                           | --               | 0.0027 UP                | 0.008  | --      | 0.03                | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG          | 0              | --                           | 1                | 0.001 UP                 | 0.0107 | --      | 0.012               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX      | 0              | --                           | --               | 0 UP                     | --     | --      | 0.026               | 0.230    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NOX           | 0              | --                           | --               | 0.0073 UP                | 0.0068 | --      | 0.014               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | NMOG          | 0              | --                           | 1                | 0.001 UP                 | 0.0107 | --      | 0.012               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | NMOG+NOX      | 0              | --                           | --               | 0 UP                     | --     | --      | 0.026               | 0.230    | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230       | NOX           | 0              | --                           | --               | 0.0073 UP                | 0.0068 | --      | 0.014               | 99.999   | Pass      |

## Certification Summary Information Report

|                                                    |                                           |                                                                 |                                          |
|----------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------|------------------------------------------|
| <b>Test Group</b>                                  | VMBXD02.0HD5                              | <b>Evaporative/Refueling Family</b>                             | --                                       |
| <b>Test #</b>                                      | <b>SMBX91005935</b>                       | <b>Test Procedure</b>                                           | <b>16 - Hot 1435 LA92</b>                |
| <b>Exhaust Test # for this Evap Test</b>           | --                                        | <b>Test Fuel Type</b>                                           | 19 - Federal Cert Diesel 7-15 PPM Sulfur |
| <b>Test Date</b>                                   | 05/29/2024                                | <b>Fuel</b>                                                     | Diesel                                   |
| <b>Fuel Batch ID</b>                               | 28879                                     | <b>Fuel Calibration Number</b>                                  | 2                                        |
| <b>Vehicle Class</b>                               | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | <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>                 | 4061                                      | <b>Odometer Units</b>                                           | M                                        |
| <b>4WD Test Dyno</b>                               | No                                        | <b>Diesel Adjustment Factor Usage</b>                           | U                                        |
| <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>                                |                                           |                                                                 |                                          |
| <b>Test Result Name</b>                            | <b>Unrounded Test Result</b>              | <b>Verify Calculated FE Equivalent Value (miles per gallon)</b> |                                          |
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 953.6713867                               | --                                                              |                                          |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 10.6662292                                | --                                                              |                                          |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 768.2035522                               | --                                                              |                                          |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 13.2453499                                | --                                                              |                                          |
| METHANE (CH4 - Methane)                            | 0.005883                                  | --                                                              |                                          |
| CO (Carbon Monoxide)                               | 0.0450297                                 | --                                                              |                                          |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.4673431                                 | --                                                              |                                          |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.1882196                                | --                                                              |                                          |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 0.1379195                                 | --                                                              |                                          |
| MFR FE (Manufacturer Fuel Economy)                 | 12.8666906                                | --                                                              |                                          |
| NOX (Nitrogen Oxide)                               | 0.0008806                                 | --                                                              |                                          |
| N2O (Nitrous Oxide)                                | 0.0578996                                 | --                                                              |                                          |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0006546                                 | --                                                              |                                          |
| NMOG (Non-methane organic gases)                   | 0.0006546                                 | --                                                              |                                          |
| PM (Particulate Matter)                            | 0.0001937                                 | --                                                              |                                          |
| HC-TOTAL (Total Hydrocarbon)                       | 0.006557                                  | --                                                              |                                          |
| <b>Test Result Name</b>                            | <b>Unrounded Test Result</b>              | <b>Verify Calculated CO2</b>                                    |                                          |
| Carbon dioxide                                     | 790.7765503                               | --                                                              |                                          |
| <b>Manufacturer Test Comments</b>                  | None                                      |                                                                 |                                          |

Certification Summary Information Report

| Test Group           |               | VMBXD02.0HD5                |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|-----------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level              | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| CA                   | 150,000 miles | California LEV-III SULEV230 | CO            | 0.05           | --  | --                           | 0.0396 UP                | 0.21   | --      | 0.3                 | 10.0     | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230 | NMOG          | 0.0007         | --  | 1                            | 0.001 UP                 | 0.0107 | --      | 0.012               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230 | NMOG+NOX      | 0.0016         | --  | --                           | 0 UP                     | --     | --      | 0.027               | 0.230    | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230 | NOX           | 0.0009         | --  | --                           | 0.0073 UP                | 0.0068 | --      | 0.015               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230 | PM            | 0.0002         | --  | --                           | 0.0007 UP                | 0.0001 | --      | 0.001               | 0.005    | Pass      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VMBXD02.0HD5                              | <b>Evaporative/Refueling Family</b>                      | --                                       |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|------------------------------------------|------------------|-----------------------|----------------------------------------------------------|----------------------|-------------|----|----------------------------------------------------|-------|----|--------------------------------------------|--------|----|-------------------------------------------------|--------|----|------------------------------------|------------|------------|----------------------|-----------|----|---------------------------------|-----------|----|----------------------------------|-----------|----|-------------------------|-----------|----|------------------------------|-----------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>SMBX10086084</b>                       | <b>Test Procedure</b>                                    | <b>95 - SC03</b>                         |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                        | <b>Test Fuel Type</b>                                    | 19 - Federal Cert Diesel 7-15 PPM Sulfur |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 04/10/2024                                | <b>Fuel</b>                                              | Diesel                                   |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | U25D04                                    | <b>Fuel Calibration Number</b>                           | 1                                        |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | <b>DF Type</b>                                           | Mfr. Determined                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3953 Research Park Drive                  |                                                          |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | --                                        |                                                          |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3940                                      | <b>Odometer Units</b>                                    | M                                        |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No                                        | <b>Diesel Adjustment Factor Usage</b>                    | U                                        |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No                                        |                                                          |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>                              | Yes                                      |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <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>CO (Carbon Monoxide)</td> <td>0.260621</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>0.606</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>-0.023</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>-0.346</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>12.2184335</td> <td>12.2184335</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.0013641</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.0003123</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.0003123</td> <td>--</td> </tr> <tr> <td>PM (Particulate Matter)</td> <td>0.0002723</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0037658</td> <td>--</td> </tr> </tbody> </table> |                                           |                                                          |                                          | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | CO (Carbon Monoxide) | 0.260621    | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.606 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.023 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | -0.346 | -- | MFR FE (Manufacturer Fuel Economy) | 12.2184335 | 12.2184335 | NOX (Nitrogen Oxide) | 0.0013641 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0003123 | -- | NMOG (Non-methane organic gases) | 0.0003123 | -- | PM (Particulate Matter) | 0.0002723 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0037658 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unrounded Test Result                     | Verify Calculated FE Equivalent Value (miles per gallon) |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.260621                                  | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.606                                     | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.023                                    | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -0.346                                    | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12.2184335                                | 12.2184335                                               |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0013641                                 | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0003123                                 | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.0003123                                 | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0002723                                 | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0037658                                 | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>832.4041032</td> <td>--</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                                          |                                          | Test Result Name | Unrounded Test Result | Verify Calculated CO2                                    | Carbon dioxide       | 832.4041032 | -- |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unrounded Test Result                     | Verify Calculated CO2                                    |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 832.4041032                               | --                                                       |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                        |                                                          |                                          |                  |                       |                                                          |                      |             |    |                                                    |       |    |                                            |        |    |                                                 |        |    |                                    |            |            |                      |           |    |                                 |           |    |                                  |           |    |                         |           |    |                              |           |    |

## Certification Summary Information Report

| Test Group           |               | VMBXD02.0HD5                |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|-----------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level              | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| CA                   | 150,000 miles | California LEV-III SULEV230 | CO            | 0.26           | --  | --                           | 0.0396 UP                | 0.21   | --      | 0.5                 | 4.2      | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230 | NMOG          | 0.0003         | --  | --                           | 0.001 UP                 | 0.0107 | --      | 0.012               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230 | NMOG+NOX      | 0.0017         | --  | --                           | 0 UP                     | --     | --      | 0.028               | 0.230    | Pass      |
| CA                   | 150,000 miles | California LEV-III SULEV230 | NOX           | 0.0014         | --  | --                           | 0.0073 UP                | 0.0068 | --      | 0.016               | 99.999   | Pass      |

  

|                                                                           |                                          |  |  |  |  |                                                                           |            |  |  |  |  |  |
|---------------------------------------------------------------------------|------------------------------------------|--|--|--|--|---------------------------------------------------------------------------|------------|--|--|--|--|--|
| <b>Fuel Properties</b>                                                    |                                          |  |  |  |  |                                                                           |            |  |  |  |  |  |
| <b>Fuel Batch ID</b>                                                      | <b>28879</b>                             |  |  |  |  | <b>Fuel Calibration Number</b>                                            | <b>2</b>   |  |  |  |  |  |
| <b>Test Fuel Type</b>                                                     | 19 - Federal Cert Diesel 7-15 PPM Sulfur |  |  |  |  | <b>Fuel Batch Calibration Date</b>                                        | 07/25/2023 |  |  |  |  |  |
| <b>Fuel Batch Calibration Effective Date</b>                              | 07/25/2023                               |  |  |  |  | <b>Fuel Batch Calibration Ineffective Date</b>                            | --         |  |  |  |  |  |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                       |  |  |  |  | <b>Carbon Weight Fraction HC</b>                                          | --         |  |  |  |  |  |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                       |  |  |  |  | <b>Fuel Methanol Volume Fraction</b>                                      | --         |  |  |  |  |  |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                       |  |  |  |  | <b>Fuel Specific Gravity</b>                                              | 0.858      |  |  |  |  |  |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | --                                       |  |  |  |  | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 18396      |  |  |  |  |  |
| <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> | 0.869                                    |  |  |  |  | <b>Weight Fraction CO2</b>                                                | --         |  |  |  |  |  |
| <b>Fuel Batch ID</b>                                                      | <b>U25D04</b>                            |  |  |  |  | <b>Fuel Calibration Number</b>                                            | <b>1</b>   |  |  |  |  |  |
| <b>Test Fuel Type</b>                                                     | 19 - Federal Cert Diesel 7-15 PPM Sulfur |  |  |  |  | <b>Fuel Batch Calibration Date</b>                                        | 12/11/2023 |  |  |  |  |  |
| <b>Fuel Batch Calibration Effective Date</b>                              | 04/08/2024                               |  |  |  |  | <b>Fuel Batch Calibration Ineffective Date</b>                            | --         |  |  |  |  |  |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                       |  |  |  |  | <b>Carbon Weight Fraction HC</b>                                          | --         |  |  |  |  |  |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                       |  |  |  |  | <b>Fuel Methanol Volume Fraction</b>                                      | --         |  |  |  |  |  |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                       |  |  |  |  | <b>Fuel Specific Gravity</b>                                              | 0.853      |  |  |  |  |  |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | --                                       |  |  |  |  | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 18381      |  |  |  |  |  |
| <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> | 0.873                                    |  |  |  |  | <b>Weight Fraction CO2</b>                                                | --         |  |  |  |  |  |

## Certification Summary Information Report

|                                |               |                                                   |     |             |                                 |                                   |         |                                   |        |
|--------------------------------|---------------|---------------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|-----------------------------------|--------|
| Test Group                     |               | VMBXD02.0HD5                                      |     |             | Evaporative/Refueling Family    |                                   |         | --                                |        |
| Consolidated List of Standards |               |                                                   |     |             |                                 |                                   |         |                                   |        |
| Exhaust Standards              |               |                                                   |     |             |                                 |                                   |         |                                   |        |
| Cert Region                    |               | Federal                                           |     |             | Cert/In-Use Code                |                                   |         | Both                              |        |
| Vehicle Class                  |               | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 HD Class 3 Bin 230 |        |
| Fuel                           |               | Diesel                                            |     |             | Test Procedure                  |                                   |         | CVS 75 and later (w/o can. load)  |        |
| Useful Life                    | Emission Name | Rounded Result                                    | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                            | Std    |
| 150,000 miles                  | CO            | --                                                | --  | --          | 0.0396                          | 0                                 | --      | 0.21                              | 4.2    |
| 150,000 miles                  | CO-COMP       | --                                                | --  | --          | 0                               | 0                                 | --      | --                                | 4.0    |
| 150,000 miles                  | HCHO          | --                                                | --  | --          | 0.000018                        | 0                                 | --      | 0.0002                            | 0.006  |
| 150,000 miles                  | METHANE       | --                                                | --  | --          | 0.0057                          | 0                                 | --      | 0.0054                            | 99.999 |
| 150,000 miles                  | METHANE-COMB  | --                                                | --  | --          | 0                               | 0                                 | --      | 0.0054                            | 0.05   |
| 150,000 miles                  | N2O           | --                                                | --  | --          | 0.0027                          | 0                                 | --      | 0.008                             | 99.999 |
| 150,000 miles                  | N2O-COMB      | --                                                | --  | --          | 0                               | 0                                 | --      | 0.008                             | 0.05   |
| 150,000 miles                  | NMOG          | --                                                | --  | 1           | 0.001                           | 0                                 | --      | 0.0107                            | 99.999 |
| 150,000 miles                  | NMOG+NOX      | --                                                | --  | --          | 0                               | 0                                 | 1       | --                                | 0.230  |
| 150,000 miles                  | NMOG+NOX-COMP | --                                                | --  | --          | 0                               | 0                                 | --      | --                                | 0.350  |
| 150,000 miles                  | NOX           | --                                                | --  | --          | 0.0073                          | 0                                 | --      | 0.0068                            | 99.999 |
| 150,000 miles                  | PM            | --                                                | --  | --          | 0.0007                          | 0                                 | --      | 0.0001                            | 0.010  |
| 150,000 miles                  | PM-COMP       | --                                                | --  | --          | 0                               | 0                                 | --      | --                                | 0.007  |
|                                |               |                                                   |     |             |                                 |                                   |         |                                   |        |
| Cert Region                    |               | Federal                                           |     |             | Cert/In-Use Code                |                                   |         | Both                              |        |
| Vehicle Class                  |               | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 HD Class 3 Bin 230 |        |
| Fuel                           |               | Diesel                                            |     |             | Test Procedure                  |                                   |         | Hot 1435 LA92                     |        |
| 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-COMP       | --                                                | --  | --          | 0                               | 0                                 | --      | --                                | 4.0    |
| 150,000 miles                  | NMOG+NOX-COMP | --                                                | --  | --          | 0                               | 0                                 | --      | --                                | 0.350  |
| 150,000 miles                  | PM-COMP       | --                                                | --  | --          | 0                               | 0                                 | --      | --                                | 0.007  |
|                                |               |                                                   |     |             |                                 |                                   |         |                                   |        |

## Certification Summary Information Report

|                      |                      |                                           |            |                    |                                        |                                          |                |                             |            |
|----------------------|----------------------|-------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------|------------|
| <b>Test Group</b>    |                      | VMBXD02.0HD5                              |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | --                          |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                        |            |
| <b>Vehicle Class</b> |                      | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III SULEV230 |            |
| <b>Fuel</b>          |                      | Diesel                                    |            |                    | <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                   | --                                        | --         | --                 | 0.0396                                 | 0                                        | --             | 0.21                        | 4.2        |
| 150,000 miles        | NMOG                 | --                                        | --         | --                 | 0.001                                  | 0                                        | --             | 0.0107                      | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                        | --         | --                 | 0                                      | 0                                        | 1              | --                          | 0.230      |
| 150,000 miles        | NOX                  | --                                        | --         | --                 | 0.0073                                 | 0                                        | --             | 0.0068                      | 99.999     |

|                      |                      |                                           |            |                    |                                        |                                          |                |                                  |            |
|----------------------|----------------------|-------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|----------------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                             |            |
| <b>Vehicle Class</b> |                      | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III SULEV230      |            |
| <b>Fuel</b>          |                      | Diesel                                    |            |                    | <b>Test Procedure</b>                  |                                          |                | CVS 75 and later (w/o 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                   | --                                        | --         | --                 | 0.0396                                 | 0                                        | --             | 0.21                             | 4.2        |
| 150,000 miles        | HCHO                 | --                                        | --         | --                 | 0.000018                               | 0                                        | --             | 0.0002                           | 0.006      |
| 150,000 miles        | NMOG                 | --                                        | --         | 1                  | 0.001                                  | 0                                        | --             | 0.0107                           | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                        | --         | --                 | 0                                      | 0                                        | 1              | --                               | 0.230      |
| 150,000 miles        | NOX                  | --                                        | --         | --                 | 0.0073                                 | 0                                        | --             | 0.0068                           | 99.999     |
| 150,000 miles        | PM                   | --                                        | --         | --                 | 0.0007                                 | 0                                        | --             | 0.0001                           | 0.010      |

|                      |                      |                                           |            |                    |                                        |                                          |                |                             |            |
|----------------------|----------------------|-------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states       |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                        |            |
| <b>Vehicle Class</b> |                      | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III SULEV230 |            |
| <b>Fuel</b>          |                      | Diesel                                    |            |                    | <b>Test Procedure</b>                  |                                          |                | Hot 1435 LA92               |            |
| <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                   | --                                        | --         | --                 | 0.0396                                 | 0                                        | --             | 0.21                        | 10.0       |
| 150,000 miles        | NMOG                 | --                                        | --         | 1                  | 0.001                                  | 0                                        | --             | 0.0107                      | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                        | --         | --                 | 0                                      | 0                                        | 1              | --                          | 0.230      |
| 150,000 miles        | NOX                  | --                                        | --         | --                 | 0.0073                                 | 0                                        | --             | 0.0068                      | 99.999     |
| 150,000 miles        | PM                   | --                                        | --         | --                 | 0.0007                                 | 0                                        | --             | 0.0001                      | 0.005      |

## Certification Summary Information Report

|                      |                      |                                                   |            |                    |                                        |                                          |                |                                                   |            |
|----------------------|----------------------|---------------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------------------------------|------------|
| <b>Test Group</b>    |                      | VMBXD02.0HD5                                      |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | --                                                |            |
| <b>Cert Region</b>   |                      | Federal                                           |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                                              |            |
| <b>Vehicle Class</b> |                      | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 HD Class 3 Bin 230                 |            |
| <b>Fuel</b>          |                      | Diesel                                            |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                                              |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                             | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                                     | <b>Std</b> |
| 150,000 miles        | METHANE              | --                                                | --         | --                 | 0.0057                                 | 0                                        | --             | 0.0054                                            | 99.999     |
| 150,000 miles        | METHANE-COMB         | --                                                | --         | --                 | 0                                      | 0                                        | --             | 0.0054                                            | 0.05       |
| 150,000 miles        | N2O                  | --                                                | --         | --                 | 0.0027                                 | 0                                        | --             | 0.008                                             | 99.999     |
| 150,000 miles        | N2O-COMB             | --                                                | --         | --                 | 0                                      | 0                                        | --             | 0.008                                             | 0.05       |
| 150,000 miles        | NMOG                 | --                                                | --         | 1                  | 0.001                                  | 0                                        | --             | 0.0107                                            | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                                | --         | --                 | 0                                      | 0                                        | 1              | --                                                | 0.230      |
| 150,000 miles        | NOX                  | --                                                | --         | --                 | 0.0073                                 | 0                                        | --             | 0.0068                                            | 99.999     |
|                      |                      |                                                   |            |                    |                                        |                                          |                |                                                   |            |
| <b>Cert Region</b>   |                      | Federal                                           |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                                              |            |
| <b>Vehicle Class</b> |                      | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) |            |                    | <b>Standard Level</b>                  |                                          |                | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) |            |
| <b>Fuel</b>          |                      | Diesel                                            |            |                    | <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-COMP              | --                                                | --         | --                 | 0                                      | 0                                        | --             | --                                                | 4.0        |
| 150,000 miles        | NMOG+NOX-COMP        | --                                                | --         | --                 | 0                                      | 0                                        | --             | --                                                | 0.350      |
| 150,000 miles        | PM-COMP              | --                                                | --         | --                 | 0                                      | 0                                        | --             | --                                                | 0.007      |
|                      |                      |                                                   |            |                    |                                        |                                          |                |                                                   |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                                              |            |
| <b>Vehicle Class</b> |                      | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)         |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III SULEV230                       |            |
| <b>Fuel</b>          |                      | Diesel                                            |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                                              |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                             | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                                     | <b>Std</b> |
| 150,000 miles        | NMOG                 | --                                                | --         | 1                  | 0.001                                  | 0                                        | --             | 0.0107                                            | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                                | --         | --                 | 0                                      | 0                                        | 1              | --                                                | 0.230      |
| 150,000 miles        | NOX                  | --                                                | --         | --                 | 0.0073                                 | 0                                        | --             | 0.0068                                            | 99.999     |

## Certification Summary Information Report

| Test Group     |                                                                 | VMBXD02.0HD5 | Evaporative/Refueling Family |                                                    | -- |
|----------------|-----------------------------------------------------------------|--------------|------------------------------|----------------------------------------------------|----|
| Glossary       |                                                                 |              |                              |                                                    |    |
| Useful Life    |                                                                 |              |                              |                                                    |    |
| 4              | 4,000 miles                                                     |              | 120                          | 120,000 miles                                      |    |
| 50             | 50,000 miles                                                    |              | 150                          | 150,000 miles                                      |    |
| 100            | 100,000 miles                                                   |              |                              |                                                    |    |
| Emission Name  |                                                                 |              |                              |                                                    |    |
| HC-TOTAL       | Total Hydrocarbon                                               |              | COMB-CREE                    | Combined Carbon-Related Exhaust Emissions          |    |
| CO             | Carbon Monoxide                                                 |              | COMB-OPT-CREE                | Combined Optional Carbon-Related Exhaust Emissions |    |
| CO2            | Carbon dioxide                                                  |              | HC-TOTAL-EQUIV               | Total Hydrocarbon equivalent - Evap only           |    |
| CREE           | Carbon-Related Exhaust Emissions                                |              | METHANE-COMB                 | Combined CH4 for HD 2b/3 vehicles only             |    |
| OPT-CREE       | Optional Carbon-Related Exhaust Emissions                       |              | N2O-COMB                     | Combined Nitrous Oxide for HD 2b/3 vehicles only   |    |
| NOX            | Nitrogen Oxide                                                  |              | LEAK-DIA                     | Effective Leak Diameter (inches)                   |    |
| PM             | Particulate Matter                                              |              | LEAK-GAS CAP                 | Gas Cap Leakage (cc/min)                           |    |
| PM-COMP        | SFTP Composite Particulate Matter                               |              | CO2-COMB                     | Combined Carbon Dioxide for HD 2b/3 Vehicles Only  |    |
| HC-NM          | Non-methane Hydrocarbon                                         |              | KW-HRS                       | Integrated DC KW-HRS                               |    |
| OMHCE          | Organic material Hydrocarbon Equivalent                         |              | CH4 BAG 1                    | Bag 1 Methane                                      |    |
| OMNMHCE        | Organic material non-methane HC equivalent                      |              | CH4 BAG 2                    | Bag 2 Methane                                      |    |
| NMOG           | Non-methane organic gases                                       |              | CH4 BAG 3                    | Bag 3 Methane                                      |    |
| HCHO           | Formaldehyde                                                    |              | CH4 BAG 4                    | Bag 4 Methane                                      |    |
| H3C2HO         | Acetaldehyde                                                    |              | CO BAG 1                     | Bag 1 Carbon Monoxide                              |    |
| HC-NM+NOX      | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 |              | CO BAG 2                     | Bag 2 Carbon Monoxide                              |    |
| HC-NM+NOX-COMP | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        |              | CO BAG 3                     | Bag 3 Carbon Monoxide                              |    |
| CO-COMP        | SFTP Composite Carbon Monoxide                                  |              | CO BAG 4                     | Bag 4 Carbon Monoxide                              |    |
| ETHANOL        | C2H5OH - Ethanol                                                |              | NMOG BAG 1                   | Bag 1 Non-methane organic gases                    |    |
| FE BAG 1       | Bag 1 Fuel Economy                                              |              | NMOG BAG 2                   | Bag 2 Non-methane organic gases                    |    |
| FE BAG 2       | Bag 2 Fuel Economy                                              |              | NMOG BAG 3                   | Bag 3 Non-methane organic gases                    |    |
| FE BAG 3       | Bag 3 Fuel Economy                                              |              | NMOG BAG 4                   | Bag 4 Non-methane organic gases                    |    |
| FE BAG 4       | Bag 4 Fuel Economy                                              |              | ACT-DISTANCE BAG 1           | Bag 1 Actual Distance                              |    |
| MFR FE         | Manufacturer Fuel Economy                                       |              | ACT-DISTANCE BAG 2           | Bag 2 Actual Distance                              |    |
| HC             | Hydrocarbon for Running Loss and ORVR                           |              | ACT-DISTANCE BAG 3           | Bag 3 Actual Distance                              |    |
| METHANE        | CH4 - Methane                                                   |              | ACT-DISTANCE BAG 4           | Bag 4 Actual Distance                              |    |
| METHANOL       | CH3OH - Methanol                                                |              | HC-TOTAL BAG 1               | Bag 1 Total Hydrocarbon                            |    |
| N2O            | Nitrous Oxide                                                   |              | HC-TOTAL BAG 2               | Bag 2 Total Hydrocarbon                            |    |
| SPITBACK       | Spitback Hydrocarbon in grams                                   |              | HC-TOTAL BAG 3               | Bag 3 Total Hydrocarbon                            |    |
| AMP-HRS        | Integrated Amp-hours                                            |              | HC-TOTAL BAG 4               | Bag 4 Total Hydrocarbon                            |    |
| START-SOC      | System Start State of Charge Watt-hours                         |              | WATT-HRS BAG 1               | Bag 1 Watt Hours                                   |    |
| END-SOC        | System End State of Charge Watt-hours                           |              | WATT-HRS BAG 2               | Bag 2 Watt Hours                                   |    |

## Certification Summary Information Report

| Test Group                             |                                                            | VMBXD02.0HD5 | Evaporative/Refueling Family |                                                 | -- |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|----|
| ACT-DISTANCE                           | Actual Distance Driven (miles)                             |              | WATT-HRS BAG 3               | Bag 3 Watt Hours                                |    |
| AS-VOLT                                | Average System Voltage                                     |              | WATT-HRS BAG 4               | Bag 4 Watt Hours                                |    |
| CO2 BAG 1                              | Bag 1 Carbon Dioxide                                       |              | WATT-HRS                     | Watt Hours                                      |    |
| CO2 BAG 2                              | Bag 2 Carbon Dioxide                                       |              | HC-NM BAG 1                  | Bag 1 Non-methane Hydrocarbon                   |    |
| CO2 BAG 3                              | Bag 3 Carbon Dioxide                                       |              | HC-NM BAG 2                  | Bag 2 Non-methane Hydrocarbon                   |    |
| CO2 BAG 4                              | Bag 4 Carbon Dioxide                                       |              | HC-NM BAG 3                  | Bag 3 Non-methane Hydrocarbon                   |    |
| NMOG+NOX                               | Non-methane organic gases plus Nitrogen Oxides             |              | HC-NM BAG 4                  | Bag 4 Non-methane Hydrocarbon                   |    |
| NMOG+NOX-COMP                          | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |              | N2O BAG 1                    | Bag 1 Nitrous Oxide                             |    |
| DT-IWRR                                | Drive Trace Inertia Work Ratio Rating                      |              | N2O BAG 2                    | Bag 2 Nitrous Oxide                             |    |
| DT-ASCR                                | Drive Trace Absolute Speed Change Rating                   |              | N2O BAG 3                    | Bag 3 Nitrous Oxide                             |    |
| DT-EER                                 | Drive Trace Energy Economy Rating                          |              | N2O BAG 4                    | Bag 4 Nitrous Oxide                             |    |
| <b>Certification Region</b>            |                                                            |              |                              |                                                 |    |
| CA                                     | California + CAA Section 177 states                        |              | FA                           | Federal                                         |    |
| <b>Exhaust Emission Standard Level</b> |                                                            |              |                              |                                                 |    |
| B1                                     | Federal Tier 2 Bin 1                                       |              | HDV2B340                     | Federal Tier 3 HD Class 2b Transitional Bin 340 |    |
| B2                                     | Federal Tier 2 Bin 2                                       |              | HDV2B250                     | Federal Tier 3 HD Class 2b Bin 250              |    |
| B3                                     | Federal Tier 2 Bin 3                                       |              | HDV2B200                     | Federal Tier 3 HD Class 2b Bin 200              |    |
| B4                                     | Federal Tier 2 Bin 4                                       |              | HDV2B170                     | Federal Tier 3 HD Class 2b Bin 170              |    |
| B5                                     | Federal Tier 2 Bin 5                                       |              | HDV2B150                     | Federal Tier 3 HD Class 2b Bin 150              |    |
| B6                                     | Federal Tier 2 Bin 6                                       |              | HDV2B0                       | Federal Tier 3 HD Class 2b Bin 0                |    |
| B7                                     | Federal Tier 2 Bin 7                                       |              | HDV3B630                     | Federal Tier 3 HD Class 3 Transitional Bin 630  |    |
| B8                                     | Federal Tier 2 Bin 8                                       |              | HDV3B570                     | Federal Tier 3 HD Class 3 Transitional Bin 570  |    |
| B9                                     | Federal Tier 2 Bin 9                                       |              | HDV3B400                     | Federal Tier 3 HD Class 3 Bin 400               |    |
| B10                                    | Federal Tier 2 Bin 10                                      |              | HDV3B270                     | Federal Tier 3 HD Class 3 Bin 270               |    |
| B11                                    | Federal Tier 2 Bin 11                                      |              | HDV3B230                     | Federal Tier 3 HD Class 3 Bin 230               |    |
| HDV1                                   | HDV1 (Federal HD chassis Class 2b GVW 8501-10000)          |              | HDV3B200                     | Federal Tier 3 HD Class 3 Bin 200               |    |
| HDV2                                   | HDV2 (Federal HD chassis Class 3 GVW 10001-14000)          |              | HDV3B0                       | Federal Tier 3 HD Class 3 Bin 0                 |    |
| L2                                     | California LEV-II LEV                                      |              | L4SULEV100                   | California LEV-IV SULEV100                      |    |
| L2OP                                   | California LEV-II LEV Optional                             |              | L4SULEV125                   | California LEV-IV SULEV125                      |    |
| U2                                     | California LEV-II ULEV                                     |              | L4SULEV15                    | California LEV-IV SULEV15                       |    |
| S2                                     | California LEV-II SULEV                                    |              | L4SULEV150                   | California LEV-IV SULEV150                      |    |
| ZEV                                    | California ZEV                                             |              | L4SULEV170                   | California LEV-IV SULEV170                      |    |
| OT                                     | Other                                                      |              | L4SULEV175                   | California LEV-IV SULEV175                      |    |
| T1                                     | Federal Tier 1                                             |              | L4SULEV20                    | California LEV-IV SULEV20                       |    |
| PZEV                                   | California PZEV                                            |              | L4SULEV200                   | California LEV-IV SULEV200                      |    |
| L2LEV160                               | California LEV-II LEV160                                   |              | L4SULEV230                   | California LEV-IV SULEV230                      |    |
| L2ULEV125                              | California LEV-II ULEV125                                  |              | L4SULEV25                    | California LEV-IV SULEV25                       |    |
| L2SULEV30                              | California LEV-II SULEV30                                  |              | L4SULEV30                    | California LEV-IV SULEV30                       |    |
| L2LEV395                               | California LEV-II LEV395                                   |              | L4SULEV75                    | California LEV-IV SULEV75                       |    |

## Certification Summary Information Report

| Test Group                    |                                                                   | VMBXD02.0HD5 | Evaporative/Refueling Family                             |                            | -- |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|----|
| L2ULEV340                     | California LEV-II ULEV340                                         |              | L4SULEV85                                                | California LEV-IV SULEV85  |    |
| L2LEV630                      | California LEV-II LEV630                                          |              | L4ULEV125                                                | California LEV-IV ULEV125  |    |
| L2ULEV570                     | California LEV-II ULEV570                                         |              | L4ULEV200                                                | California LEV-IV ULEV200  |    |
| L3LEV160                      | California LEV-III LEV160                                         |              | L4ULEV250                                                | California LEV-IV ULEV250  |    |
| L3ULEV125                     | California LEV-III ULEV125                                        |              | L4ULEV270                                                | California LEV-IV ULEV270  |    |
| L3ULEV70                      | California LEV-III ULEV70                                         |              | L4ULEV40                                                 | California LEV-IV ULEV40   |    |
| L3ULEV50                      | California LEV-III ULEV50                                         |              | L4ULEV400                                                | California LEV-IV ULEV400  |    |
| L3SULEV30                     | California LEV-III SULEV30                                        |              | L4ULEV50                                                 | California LEV-IV ULEV50   |    |
| L3SULEV20                     | California LEV-III SULEV20                                        |              | L4ULEV60                                                 | California LEV-IV ULEV60   |    |
| L3LEV395                      | California LEV-III LEV395                                         |              | L4ULEV70                                                 | California LEV-IV ULEV70   |    |
| L3ULEV340                     | California LEV-III ULEV340                                        |              | T4B170                                                   | Federal Tier 4 MDV Bin 170 |    |
| L3ULEV250                     | California LEV-III ULEV250                                        |              | T4B150                                                   | Federal Tier 4 MDV Bin 150 |    |
| L3ULEV200                     | California LEV-III ULEV200                                        |              | T4B125                                                   | Federal Tier 4 MDV Bin 125 |    |
| L3SULEV170                    | California LEV-III SULEV170                                       |              | T4B100                                                   | Federal Tier 4 MDV Bin 100 |    |
| L3SULEV150                    | California LEV-III SULEV150                                       |              | T4B85                                                    | Federal Tier 4 MDV Bin 85  |    |
| L3LEV630                      | California LEV-III LEV630                                         |              | T4B75                                                    | Federal Tier 4 MDV Bin 75  |    |
| L3ULEV570                     | California LEV-III ULEV570                                        |              | T4B70                                                    | Federal Tier 4 Bin 70      |    |
| L3ULEV400                     | California LEV-III ULEV400                                        |              | T4B65                                                    | Federal Tier 4 Bin 65      |    |
| L3ULEV270                     | California LEV-III ULEV270                                        |              | T4B60                                                    | Federal Tier 4 Bin 60      |    |
| L3SULEV230                    | California LEV-III SULEV230                                       |              | T4B55                                                    | Federal Tier 4 Bin 55      |    |
| L3SULEV200                    | California LEV-III SULEV200                                       |              | T4B50                                                    | Federal Tier 4 Bin 50      |    |
| T3B160                        | Federal Tier 3 Bin 160                                            |              | T4B45                                                    | Federal Tier 4 Bin 45      |    |
| T3B125                        | Federal Tier 3 Bin 125                                            |              | T4B40                                                    | Federal Tier 4 Bin 40      |    |
| T3B110                        | Federal Tier 3 Transitional Bin 110                               |              | T4B35                                                    | Federal Tier 4 Bin 35      |    |
| T3B85                         | Federal Tier 3 Transitional Bin 85                                |              | T4B30                                                    | Federal Tier 4 Bin 30      |    |
| T3SULEV30                     | Federal Tier 3 Transitional LEV-II SULEV30 Carryover              |              | T4B25                                                    | Federal Tier 4 Bin 25      |    |
| T3B70                         | Federal Tier 3 Bin 70                                             |              | T4B20                                                    | Federal Tier 4 Bin 20      |    |
| T3B50                         | Federal Tier 3 Bin 50                                             |              | T4B15                                                    | Federal Tier 4 Bin 15      |    |
| T3B30                         | Federal Tier 3 Bin 30                                             |              | T4B10                                                    | Federal Tier 4 Bin 10      |    |
| T3B20                         | Federal Tier 3 Bin 20                                             |              | T4B5                                                     | Federal Tier 4 Bin 5       |    |
| T3B0                          | Federal Tier 3 Bin 0                                              |              | T4B0                                                     | Federal Tier 4 Bin 0       |    |
| HDV2B395                      | Federal Tier 3 HD Class 2b Transitional Bin 395                   |              |                                                          |                            |    |
| <b>Transmission Type Code</b> |                                                                   |              |                                                          |                            |    |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M            | Manual                                                   |                            |    |
| A                             | Automatic                                                         | OT           | Other                                                    |                            |    |
| AM                            | Automated Manual                                                  | SA           | Semi-Automatic                                           |                            |    |
| CVT                           | Continuously Variable                                             | SCV          | Selectable Continuously Variable (e.g. CVT with paddles) |                            |    |
| <b>Drive System Code</b>      |                                                                   |              |                                                          |                            |    |
| 4                             | 4-Wheel Drive                                                     | P            | Part-time 4-Wheel Drive                                  |                            |    |

Certification Summary Information Report

| Test Group                    |                                 | VMBXD02.0HD5 |  | Evaporative/Refueling Family |                                  | -- |  |
|-------------------------------|---------------------------------|--------------|--|------------------------------|----------------------------------|----|--|
| F                             | 2-Wheel Drive, Front            |              |  | A                            | All Wheel Drive                  |    |  |
| R                             | 2-Wheel Drive, Rear             |              |  |                              |                                  |    |  |
| Additional Terms and Acronyms |                                 |              |  |                              |                                  |    |  |
| AFC                           | Alternative Fuel Converter      |              |  | ICI                          | Independent Commercial Importer  |    |  |
| CSI                           | Certificate Summary Information |              |  | ORVR                         | Onboard Refueling Vapor Recovery |    |  |
| DF                            | Deterioration Factor            |              |  | SIL                          | Shift Indicator Light            |    |  |
| Evap                          | Evaporation, Evaporative        |              |  | Trans                        | Transmission                     |    |  |