

Certification Summary Information Report

| | | | |
|-----------------------------------|------------------|-------------------------------------|------------------------|
| Manufacturer | FCA US LLC | Manufacturer Code | CRX |
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Certificate Number | VCRXD06.4575-009 | CARB Executive Order # | -- |
| Certificate Issue Date | 04/01/2026 | Certificate Revision Date | -- |
| Certificate Effective Date | 04/01/2026 | Conditional Certificate | No |
| CSI Revision # | -- | CSI Submission/Revision Date | 03/20/2026 02:19:38 PM |
| Model Year | 2027 | | |

| | | | |
|----------------------------------|-----------------------|--|-------------------------------------|
| Test Group Information | | | |
| CSI Type | Update for Correction | Running Change Reference Number | -- |
| GHG Exempt Status | Not Exempt | | |
| Drive Sources and Fuel(s) | | | |
| Drive Source #1: | Combustion Engine | | |
| | Fuel | Basic Fuel Metering System | Lean Burn Strategy Indicator |
| | Gasoline | Multipoint/sequential fuel injection | No |

| | | | |
|---|--|--|--------------|
| Hybrid Indicator | No | | |
| Multiple Fuel Storage | -- | Rechargeable Energy Storage System Indicator | -- |
| Multiple Fuel Combustion | -- | Off-board Charge Capable Indicator | -- |
| Fuel Cell Indicator | -- | EPA Vehicle Class | HDV2 |
| Federal Clean Fuel Vehicle | Yes | Federal Clean Fuel Vehicle Standard | LEV |
| Federal Clean Fuel Vehicle ILEV | No | California Partial Zero Emissions Vehicle Indicator | No |
| Durability Group Name | VCRXGPGNNF40 | Durability Group Equivalency Factor | 1.6 |
| Reduced Fee Test Group | No | Certification Region Code(s) | FA, CA |
| Complies with HD GHG 2b/3 regulations? | Yes | | |
| Introduction into Commerce Date | 06/29/2026 | CAP2000 Conditional Certificate? | No |
| Independent Commercial Importer? | No | Alternative Fuel Converter Certificate? | No |
| SFTP Federal Composite Compliance Identifier | Tier 3 | SFTP Tier 2 Composite CO Option | No |
| SFTP LEV-III Composite Compliance Indicator | Yes | | |
| OBD Compliance Type | CARB | OBD Demonstration Vehicle Test Group | VCRXT03.6570 |
| Test Group OBD Compliance Level | Partial - with deficiencies | Number of Test Group OBD Deficiencies | 2 |
| OBD Deficiencies Comments | SAE J1979-2 Implementation, Adaptive Cruise Control and Parallel Park Systems Default Action | | |
| Mfr Test Group Comments | -- | | |
| Mfr Exhaust / Evap Standards Comments | -- | | |

Certification Summary Information Report

| | | | | | | | |
|---|---|---|-------------------------------------|---------------------|---------------------|---------------------|-----------------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 | | | | |
| Evaporative/Refueling Family Information | | | | | | | |
| Evaporative Summary Information Type | New | Submission/Correction Date | 03/20/2026 12:20:51 PM | | | | |
| Integrated ORVR? | Yes | Fuel(s) | Gasoline | | | | |
| Multiple Fuel Storage | -- | | | | | | |
| Bladder Fuel Tank? | No | | | | | | |
| Fuel Tank Material | Plastic | Fuel Tank Material Description | hdpe/co-ex | | | | |
| Fill Pipe Seal Type | Liquid seal | | | | | | |
| Air Intake System Vapor Storage Device? | Yes | Air Intake System Vapor Storage Device Description | Panel | | | | |
| Fuel System Vapor Storage Canister? | Yes | Other Vapor Storage | -- | | | | |
| Fuel System Vapor Storage Canister(s) Total Working Capacity (grams) | 219 | Number of Primary Canisters | 1 | | | | |
| Number of Bleed Canisters | 0 | Bleed Canister Total Working Capacity (grams) | 0 | | | | |
| Mfr Evaporative/Refueling Family Comments | This Evaporative Family is being certified with an evaporative FEL of 0.600 grams | | | | | | |
| Leak Family Details | | | | | | | |
| Leak Family Indicator | Yes | | | | | | |
| Canister Bleed Test Indicator | Yes | Applicability of Evaporative Canister Bleed Test | 50 State | | | | |
| Evaporative Canister Bleed Test Comments | -- | | | | | | |
| CARB Fuel Only (Rig) Test Indicator | No | Applicability of CARB Fuel Only (Rig) Test | -- | | | | |
| CARB Fuel Only (Rig) Test Comments | -- | | | | | | |
| Leak Family Name | Applicability of Leak Family Requirements | Leak Family Standard (inches) | Leak Family Description | | | | |
| VCRXR0213TR1-LF1 | 50 State | 0.02 | -- | | | | |
| Models Covered by this Certificate | | | | | | | |
| Carline Manufacturer | Division | Carline | Certification Region Code(s) | Drive System | Trans - Type | - # of Gears | Trans - Lockup |
| FCA US LLC | 12 - RAM | 955 - 3500 4X4 | Federal | 4-Wheel Drive | Automatic | 8 | Yes |
| FCA US LLC | 12 - RAM | 955 - 3500 4X4 | California + CAA Section 177 states | 4-Wheel Drive | Automatic | 8 | Yes |
| FCA US LLC | 12 - RAM | 930 - 2500 4X2 | Federal | 2-Wheel Drive, Rear | Automatic | 8 | Yes |
| FCA US LLC | 12 - RAM | 930 - 2500 4X2 | California + CAA Section 177 states | 2-Wheel Drive, Rear | Automatic | 8 | Yes |
| FCA US LLC | 12 - RAM | 935 - 2500 4X4 | Federal | 4-Wheel Drive | Automatic | 8 | Yes |
| FCA US LLC | 12 - RAM | 950 - 3500 4X2 | California + CAA Section 177 states | 2-Wheel Drive, Rear | Automatic | 8 | Yes |
| FCA US LLC | 12 - RAM | 950 - 3500 4X2 | Federal | 2-Wheel Drive, Rear | Automatic | 8 | Yes |
| FCA US LLC | 12 - RAM | 935 - 2500 4X4 | California + CAA Section 177 states | 4-Wheel Drive | Automatic | 8 | Yes |

Certification Summary Information Report

| | | | |
|--|--------------------------------------|--|---------------------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Engine Description | | | |
| Hybrid Type | -- | Hybrid Description | -- |
| Engine Type | 4-Stroke Spark Ignition | Mfr Engine Description | -- |
| Engine Block Arrangement | V-shaped engine | Mfr Engine Block Arrangement Description | -- |
| Camless Valvetrain Indicator | No | Oil Viscosity/Classification | 0W-40 |
| Number of Cylinders/Rotors | 8 | Mechanically Variable Compression Ratio Indicator | N |
| After Treatment Device(s) (ATD) | | | |
| ATD Number | ATD Type | ATD Precious Metal | Substrate Material |
| 1 | Three-way catalyst | Platinum + Palladium + Rhodium | Ceramic |
| 2 | Three-way catalyst | Platinum + Rhodium | Ceramic |
| 3 | Three-way catalyst | Rhodium | Ceramic |
| Mfr After Treatment Device (ATD) Comments | THREE WAY CATALYST | | |
| Direct Ozone Reduction (DOR) Device | Not Equipped | | |
| Mfr Emission Control Device Comments | -- | | |
| Engine Configuration Number 1 | | | |
| Engine Displacement (liters) | 6.4 | Engine Rated Horsepower | 405 |
| Number of Inlet Valves Per Cylinder | 1 | Number of Exhaust Valves Per Cylinder | 1 |
| Air Aspiration Method | Naturally Aspirated | Number of Air Aspiration Devices | 0 |
| Air Aspiration Device Configuration | -- | Charge Air Cooler Type | N/A |
| Air Aspiration Drive Method(s) | -- | | |
| Cylinder Deactivation | Yes | | |
| Cylinder Deactivation Description | Multiple Displacement Solenoid (MDS) | | |
| Variable Valve Timing | Yes | | |
| Variable Valve Timing System Description | Cam phaser | | |
| Variable Valve Lift? | No | | |
| Variable Valve Lift System Description | -- | | |
| Number of Knock Sensors | 2 | Number of Air/Fuel Sensors | 4 |
| Air/Fuel Sensor # 1 Type | Heated oxygen | Air/Fuel Sensor # 1 Description | -- |
| Air/Fuel Sensor # 2 Type | Heated oxygen | Air/Fuel Sensor # 2 Description | -- |
| Air/Fuel Sensor # 3 Type | Heated oxygen | Air/Fuel Sensor # 3 Description | -- |
| Air/Fuel Sensor # 4 Type | Heated oxygen | Air/Fuel Sensor # 4 Description | -- |
| Mfr Air/Fuel Sensor Comments | -- | | |
| Exhaust Gas Recirculation | Yes | Cooled Exhaust Gas Recirculation | Yes |
| EGR Type | Electronic/Electric | Exhaust Gas Recirculation Description if 'Other' | -- |
| Closed Loop Air Injection System | No | | |
| Air Injection Type | Not Applicable | Air Injection Type if 'Other' | -- |
| Mfr Engine Configuration Comments | -- | | |

Certification Summary Information Report

| | | | | | | | | | | |
|---|--------------|--------------|--------------|----------------|-------------------------------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| Test Group | | VCRXD06.4575 | | | Evaporative/Refueling Family | | | VCRXR0213TR1 | | |
| Official Test Numbers | | | | | | | | | | |
| Test Group Fuel | FTP | US06 | SC03 | Cold CO | Highway | EPA City Litmus Value | EPA City Litmus Threshold | EPA Highway Litmus Value | EPA Highway Litmus Threshold | CREE Weighting Factor |
| Gasoline | SCRX10087858 | SCRX10087856 | SCRX10087857 | -- | SCRX10087855 | -- | 228.2 | -- | 286.1 | 1 |
| SFTP LEV-III Official Test Numbers | | | | | | | | | | |
| Test Group Fuel | FTP | | US06 | | SC03 | | | | | |
| Gasoline | SCRX10087858 | | SCRX10087856 | | SCRX10087857 | | | | | |

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|-------------------|--------------|-------------------------------------|--------------|

Emission Data Vehicle Information

| | | | |
|----------------------------------|---------------|---|--------------|
| Vehicle ID / Configuration | L5D280598 / 0 | Manufacturer Vehicle Configuration Number | 0 |
| Original Test Group Name | SCRXD06.45W3 | Original Evaporative/Refueling Family | SCRXR0391TP1 |
| Original Test Vehicle Model Year | 2025 | | |

Vehicle Model

| | | | |
|-------------------------------|-----|--------------------------------|----------|
| Represented Test Vehicle Make | RAM | Represented Test Vehicle Model | 3500 4X4 |
|-------------------------------|-----|--------------------------------|----------|

Leak Family Details

| | | | |
|------------------------|----|------------------|----|
| Leak Family Identifier | -- | Leak Family Name | -- |
|------------------------|----|------------------|----|

Drive Sources and Fuel System Details

| Drive Source and Fuel# | Drive Source | Fuel |
|------------------------|-------------------|----------|
| 1 | Combustion Engine | Gasoline |

| | | | |
|------------------------------------|---|--|---------------------|
| Hybrid Indicator | No | | |
| Multiple Fuel Storage | -- | Multiple Fuel Combustion | -- |
| Fuel Cell Indicator | -- | Rechargeable Energy Storage System Indicator | -- |
| Rechargeable Energy Storage System | -- | Rechargeable Energy Storage System, if 'Other' | -- |
| Off-board charge Capable Indicator | -- | | |
| Odometer Correction -- Initial | 0 | Odometer Correction Factor | 1 |
| Odometer Correction Sign | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor | | |
| Odometer Correction Units | Miles | | |
| Engine Code | AA-3000 | Rated Horsepower | 405 |
| Displacement (liters) | 6.4 | | |
| Air Aspiration Method | Naturally Aspirated | Air Aspiration Method, if 'Other' | |
| Number of Air Aspiration Devices | 0 | Air Aspiration Device Configuration | -- |
| Charge Air Cooler Type | -- | Drive Mode While Testing | 2-Wheel Drive, Rear |
| Shift Indicator Light Usage | Not equipped | Aged Emission Components | 150,000 (mi) |
| Curb Weight (lbs) | 10782 | Equivalent Test Weight (pounds) | 11000 |
| GVWR (lbs) | 14000 | N/V Ratio | 30.7 |
| Axle Ratio | 4.1 | | |
| Transmission Type | Automatic | # of Transmission Gears | 8 |
| Transmission Lockup | Yes | Creeper Gear | No |

Dynamometer Coefficients:

| Coefficient Category | Target Coefficients | | | Set Coefficients | | | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|---|
| | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | |
| City/Highway/Evap | 98.77 | 0.1936 | 0.05339 | 15.11 | 0.6962 | 0.04349 | 32.3 |
| US06 | 98.77 | 0.1936 | 0.05339 | 15.11 | 0.6962 | 0.04349 | N/A |

Certification Summary Information Report

| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|---|-------------------------|------------------------------|--------------|
| Emission Control Device Comments | -- | | |
| Manufacturer Test Vehicle Comments | Callout:25DA-D06.45W3-1 | | |

Certification Summary Information Report

| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|--|--|---------------------------------------|--|
| Test # | SCRX10087858 | Test Procedure | 25 - California fuel 2-day exhaust (w/can load) |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline |
| Test Date | 09/15/2024 | Fuel | Gasoline |
| Fuel Batch ID | 11350 | Fuel Calibration Number | 1 |
| Vehicle Class | HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | DF Type | Mfr. Determined |
| Verify Test Lab ID | CPG | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 4237 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | No | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |
| Test Results | | | |

Certification Summary Information Report

| Test Group | | VCRXD06.4575 | | | Evaporative/Refueling Family | | | | | VCRXR0213TR1 | | |
|----------------------|---------------|-----------------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 | 1.26 | -- | -- | -- | 0 | 1 | 1.3 | 4.2 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | CO-COMP | 1.3 | -- | -- | -- | 0 | 1 | 1.3 | 4.0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | CO2 | 999 | -- | -- | -- | 0 | 1 | 999 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | METHANE | 0.035 | -- | -- | -- | 0 | 1 | 0.04 | 999.99 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | METHANE-COMB | 0.026 | -- | -- | -- | 0 | 1 | 0.03 | 0.05 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | N2O | 0.004 | -- | -- | -- | 0 | 1 | 0 | 999.99 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | N2O-COMB | 0.003 | -- | -- | -- | 0 | 1 | 0 | 0.05 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG | 0.0797 | -- | -- | -- | 0 | 1 | 0.08 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX | 0.1328 | -- | -- | -- | -- | -- | 0.133 | 0.230 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX-COMP | 0.059 | -- | -- | -- | 0 | 1 | 0.059 | 0.350 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NOX | 0.0531 | -- | -- | -- | 0 | 1 | 0.053 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | PM | 0.0005 | -- | -- | -- | 0 | 1 | 0 | 0.010 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | PM-COMP | 0.0008 | -- | -- | -- | 0 | 1 | 0.001 | 0.007 | Pass |
| CA | 150,000 miles | Other | CO | 1.26 | -- | -- | -- | 0 | 1 | 1.3 | 4.2 | Pass |
| CA | 150,000 miles | Other | CO-COMP | 1.3 | -- | -- | -- | 0 | 1 | 1.3 | 4.0 | Pass |
| CA | 150,000 miles | Other | CO2 | 999 | -- | -- | -- | 0 | 1 | 999 | -- | -- |
| CA | 150,000 miles | Other | METHANE | 0.035 | -- | -- | -- | 0 | 1 | 0.04 | 999.99 | Pass |
| CA | 150,000 miles | Other | METHANE-COMB | 0.026 | -- | -- | -- | 0 | 1 | 0.03 | 0.05 | Pass |
| CA | 150,000 miles | Other | N2O | 0.004 | -- | -- | -- | 0 | 1 | 0 | 999.99 | Pass |

Certification Summary Information Report

| Test Group | | VCRXD06.4575 | | | Evaporative/Refueling Family | | | | | VCRXR0213TR1 | | |
|----------------------|---------------|----------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 | Other | N2O-COMB | 0.003 | -- | -- | -- | 0 | 1 | 0 | 0.05 | Pass |
| CA | 150,000 miles | Other | NMOG | 0.0797 | -- | -- | -- | 0 | 1 | 0.08 | 999.999 | Pass |
| CA | 150,000 miles | Other | NMOG+NOX | 0.1328 | -- | -- | -- | -- | -- | 0.133 | 0.230 | Pass |
| CA | 150,000 miles | Other | NMOG+NOX-COMP | 0.059 | -- | -- | -- | 0 | 1 | 0.059 | 0.350 | Pass |
| CA | 150,000 miles | Other | NOX | 0.0531 | -- | -- | -- | 0 | 1 | 0.053 | 999.999 | Pass |
| CA | 150,000 miles | Other | PM | 0.0005 | -- | -- | -- | 0 | 1 | 0 | 0.010 | Pass |
| CA | 150,000 miles | Other | PM-COMP | 0.0008 | -- | -- | -- | 0 | 1 | 0.001 | 0.007 | Pass |

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-------------------------------------|------------------|-----------------------|--|----------------------------------|-----------|-----|----------------------|----------|----|--|--------|----|--|--------|----|---|--------|----|------------------------------------|------|------|----------------------|----------|----|---------------------|----------|----|---------------------------------|----------|----|----------------------------------|----------|----|------------------------------|----------|----|
| Test # | SCRX10087855 | Test Procedure | 3 - HWFE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Date | 09/12/2024 | Fuel | Gasoline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fuel Batch ID | 11350 | Fuel Calibration Number | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Class | HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | DF Type | Mfr. Determined | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verify Test Lab ID | CPG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E10 Evaporative Test Measurement Method | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Start Odometer Reading | 4178 | Odometer Units | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State of Charge Delta | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>METHANE (CH4 - Methane)</td> <td>0.015137</td> <td>--</td> </tr> <tr> <td>CO (Carbon Monoxide)</td> <td>0.434739</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>3.9858</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>0.3184</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>4.1656</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>16.7</td> <td>16.7</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.002796</td> <td>--</td> </tr> <tr> <td>N2O (Nitrous Oxide)</td> <td>0.001734</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.005328</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.005489</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.019861</td> <td>--</td> </tr> </tbody> </table> | | | | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | METHANE (CH4 - Methane) | 0.015137 | -- | CO (Carbon Monoxide) | 0.434739 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 3.9858 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.3184 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 4.1656 | -- | MFR FE (Manufacturer Fuel Economy) | 16.7 | 16.7 | NOX (Nitrogen Oxide) | 0.002796 | -- | N2O (Nitrous Oxide) | 0.001734 | -- | HC-NM (Non-methane Hydrocarbon) | 0.005328 | -- | NMOG (Non-methane organic gases) | 0.005489 | -- | HC-TOTAL (Total Hydrocarbon) | 0.019861 | -- |
| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| METHANE (CH4 - Methane) | 0.015137 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO (Carbon Monoxide) | 0.434739 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 3.9858 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DT-EER (Drive Trace Energy Economy Rating) | 0.3184 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 4.1656 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFR FE (Manufacturer Fuel Economy) | 16.7 | 16.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOX (Nitrogen Oxide) | 0.002796 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N2O (Nitrous Oxide) | 0.001734 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HC-NM (Non-methane Hydrocarbon) | 0.005328 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NMOG (Non-methane organic gases) | 0.005489 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HC-TOTAL (Total Hydrocarbon) | 0.019861 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>522</td> <td>999</td> </tr> </tbody> </table> | | | | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | Carbon-Related Exhaust Emissions | 522 | 999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon-Related Exhaust Emissions | 522 | 999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>520.77847</td> <td>--</td> </tr> </tbody> </table> | | | | Test Result Name | Unrounded Test Result | Verify Calculated CO2 | Carbon dioxide | 520.77847 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Result Name | Unrounded Test Result | Verify Calculated CO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon dioxide | 520.77847 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Test Comments | 25DA-D06.45W3-1 hwy @ ALVW 150k Auto Fixed cE10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Certification Summary Information Report

| Test Group | | VCRXD06.4575 | | | Evaporative/Refueling Family | | | | | VCRXR0213TR1 | | |
|----------------------|---------------|-----------------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 | CO2 | 999 | -- | -- | -- | 0 | 1 | 999 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | METHANE | 0.015 | -- | -- | -- | 0 | 1 | 0.02 | 999.99 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | N2O | 0.002 | -- | -- | -- | 0 | 1 | 0 | 999.99 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG | 0.0055 | -- | -- | -- | 0 | 1 | 0.006 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX | 0.0083 | -- | -- | -- | -- | -- | 0.008 | 0.230 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NOX | 0.0028 | -- | -- | -- | 0 | 1 | 0.003 | 999.999 | Pass |
| CA | 150,000 miles | Other | CO2 | 999 | -- | -- | -- | 0 | 1 | 999 | -- | -- |
| CA | 150,000 miles | Other | METHANE | 0.015 | -- | -- | -- | 0 | 1 | 0.02 | 999.99 | Pass |
| CA | 150,000 miles | Other | N2O | 0.002 | -- | -- | -- | 0 | 1 | 0 | 999.99 | Pass |
| CA | 150,000 miles | Other | NMOG | 0.0055 | -- | -- | -- | 0 | 1 | 0.006 | 999.999 | Pass |
| CA | 150,000 miles | Other | NMOG+NOX | 0.0083 | -- | -- | -- | -- | -- | 0.008 | 0.230 | Pass |
| CA | 150,000 miles | Other | NOX | 0.0028 | -- | -- | -- | 0 | 1 | 0.003 | 999.999 | Pass |

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

| | | | |
|--|--|---------------------------------------|-------------------------------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Test # | SCRX10087856 | Test Procedure | 16 - Hot 1435 LA92 |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline |
| Test Date | 09/12/2024 | Fuel | Gasoline |
| Fuel Batch ID | 11350 | Fuel Calibration Number | 1 |
| Vehicle Class | HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | DF Type | Mfr. Determined |
| Verify Test Lab ID | CPG | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 4200 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | No | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| CO2 BAG 1 (Bag 1 Carbon Dioxide) | 1234.26 | -- |
| FE BAG 1 (Bag 1 Fuel Economy) | 7.04 | 7.04 |
| CO2 BAG 2 (Bag 2 Carbon Dioxide) | 830 | -- |
| FE BAG 2 (Bag 2 Fuel Economy) | 10.46 | 10.46 |
| METHANE (CH4 - Methane) | 0.0216432 | -- |
| CO (Carbon Monoxide) | 0.7249428 | -- |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.2348 | -- |
| DT-EER (Drive Trace Energy Economy Rating) | 0.2526 | -- |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | -0.315 | -- |
| MFR FE (Manufacturer Fuel Economy) | 9.9 | 9.9 |
| NOX (Nitrogen Oxide) | 0.0113205 | -- |
| HC-NM (Non-methane Hydrocarbon) | 0.0055952 | -- |
| NMOG (Non-methane organic gases) | 0.0057642 | -- |
| PM (Particulate Matter) | 0.0003631 | -- |
| HC-TOTAL (Total Hydrocarbon) | 0.0263739 | -- |

| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 880 | -- |

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|-------------------|--------------|-------------------------------------|--------------|

| | | |
|-------------------------|------------------------------|------------------------------|
| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
| Carbon dioxide | 878.613784 | -- |

Manufacturer Test Comments 25DA-D06.45W3-1 la92 @ ALVW 150k Auto Fixed cE10

| 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 | 0.72 | -- | -- | -- | 0 | 1 | 0.7 | 999.9 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG | 0.0058 | -- | -- | -- | 0 | 1 | 0.006 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX | 0.0171 | -- | -- | -- | -- | -- | 0.017 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NOX | 0.0113 | -- | -- | -- | 0 | 1 | 0.011 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | PM | 0.0004 | -- | -- | -- | 0 | 1 | 0 | 999.999 | Pass |
| CA | 150,000 miles | Other | CO | 0.72 | -- | -- | -- | 0 | 1 | 0.7 | 999.9 | Pass |
| CA | 150,000 miles | Other | NMOG | 0.0058 | -- | -- | -- | 0 | 1 | 0.006 | 999.999 | Pass |
| CA | 150,000 miles | Other | NMOG+NOX | 0.0171 | -- | -- | -- | -- | -- | 0.017 | 999.999 | Pass |
| CA | 150,000 miles | Other | NOX | 0.0113 | -- | -- | -- | 0 | 1 | 0.011 | 999.999 | Pass |
| CA | 150,000 miles | Other | PM | 0.0004 | -- | -- | -- | 0 | 1 | 0 | 0.005 | Pass |

Certification Summary Information Report

| | | | |
|--|--|---|-------------------------------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Test # | SCRX10087857 | Test Procedure | 95 - SC03 |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline |
| Test Date | 09/12/2024 | Fuel | Gasoline |
| Fuel Batch ID | 11350 | Fuel Calibration Number | 1 |
| Vehicle Class | HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | DF Type | Mfr. Determined |
| Verify Test Lab ID | CPG | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 4218 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | No | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | Yes |
| Test Results | | | |
| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | |
| METHANE (CH4 - Methane) | 0.036318 | -- | |
| CO (Carbon Monoxide) | 1.76852 | -- | |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.1792 | -- | |
| DT-EER (Drive Trace Energy Economy Rating) | 0.8392 | -- | |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.6585 | -- | |
| MFR FE (Manufacturer Fuel Economy) | 8.8 | 8.8 | |
| NOX (Nitrogen Oxide) | 0.006581 | -- | |
| HC-NM (Non-methane Hydrocarbon) | 0.014022 | -- | |
| NMOG (Non-methane organic gases) | 0.014445 | -- | |
| PM (Particulate Matter) | 0.001255 | -- | |
| HC-TOTAL (Total Hydrocarbon) | 0.049203 | -- | |
| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | |
| Carbon-Related Exhaust Emissions | 984 | -- | |
| Test Result Name | Unrounded Test Result | Verify Calculated CO2 | |
| Carbon dioxide | 981.45799 | -- | |
| Manufacturer Test Comments | 25DA-D06.45W3-1 sc03 @ ALVW 150k Auto Fixed cE10 | | |

Certification Summary Information Report

| Test Group | | VCRXD06.4575 | | | Evaporative/Refueling Family | | | | | VCRXR0213TR1 | | |
|----------------------|---------------|-----------------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 | 1.77 | -- | -- | -- | 0 | 1 | 1.8 | 999.9 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG | 0.0144 | -- | -- | -- | 0 | 1 | 0.014 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NMOG+NOX | 0.021 | -- | -- | -- | -- | -- | 0.021 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | NOX | 0.0066 | -- | -- | -- | 0 | 1 | 0.007 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 HD Class 3 Bin 230 | PM | 0.0013 | -- | -- | -- | 0 | 1 | 0.001 | 999.999 | Pass |
| CA | 150,000 miles | Other | CO | 1.7685 | -- | -- | -- | 0 | 1 | 1.768 | 999.999 | Pass |
| CA | 150,000 miles | Other | NMOG | 0.0144 | -- | -- | -- | 0 | 1 | 0.014 | 999.999 | Pass |
| CA | 150,000 miles | Other | NMOG+NOX | 0.021 | -- | -- | -- | -- | -- | 0.021 | 999.999 | Pass |
| CA | 150,000 miles | Other | NOX | 0.0066 | -- | -- | -- | 0 | 1 | 0.007 | 999.999 | Pass |
| CA | 150,000 miles | Other | PM | 0.0013 | -- | -- | -- | 0 | 1 | 0.001 | 999.999 | Pass |

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|-------------------|--------------|-------------------------------------|--------------|

Emission Data Vehicle Information

| | | | |
|----------------------------------|---------------|---|--------------|
| Vehicle ID / Configuration | L5DJ25253 / 0 | Manufacturer Vehicle Configuration Number | 0 |
| Original Test Group Name | SCRXD06.45V1 | Original Evaporative/Refueling Family | SCRXR0213TP1 |
| Original Test Vehicle Model Year | 2025 | | |

Vehicle Model

| | | | |
|-------------------------------|-----|--------------------------------|----------|
| Represented Test Vehicle Make | RAM | Represented Test Vehicle Model | 2500 4X2 |
|-------------------------------|-----|--------------------------------|----------|

Leak Family Details

| | | | |
|------------------------|----|------------------|----|
| Leak Family Identifier | -- | Leak Family Name | -- |
|------------------------|----|------------------|----|

Drive Sources and Fuel System Details

| Drive Source and Fuel# | Drive Source | Fuel |
|------------------------|-------------------|----------|
| 1 | Combustion Engine | Gasoline |

| | | | |
|------------------------------------|---|--|---------------------|
| Hybrid Indicator | No | | |
| Multiple Fuel Storage | -- | Multiple Fuel Combustion | -- |
| Fuel Cell Indicator | -- | Rechargeable Energy Storage System Indicator | -- |
| Rechargeable Energy Storage System | -- | Rechargeable Energy Storage System, if 'Other' | -- |
| Off-board charge Capable Indicator | -- | | |
| Odometer Correction -- Initial | 0 | Odometer Correction Factor | 1 |
| Odometer Correction Sign | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor | | |
| Odometer Correction Units | Miles | | |
| Engine Code | AA-0350 | Rated Horsepower | 405 |
| Displacement (liters) | 6.4 | | |
| Air Aspiration Method | Naturally Aspirated | Air Aspiration Method, if 'Other' | |
| Number of Air Aspiration Devices | 0 | Air Aspiration Device Configuration | -- |
| Charge Air Cooler Type | -- | Drive Mode While Testing | 2-Wheel Drive, Rear |
| Shift Indicator Light Usage | Not equipped | Aged Emission Components | 4,000 (mi) |
| Curb Weight (lbs) | 8000 | Equivalent Test Weight (pounds) | 8000 |
| GVWR (lbs) | 10000 | N/V Ratio | 28.8 |
| Axle Ratio | 4.1 | | |
| Transmission Type | Automatic | # of Transmission Gears | 8 |
| Transmission Lockup | Yes | Creeper Gear | No |

Dynamometer Coefficients:

| Coefficient Category | Target Coefficients | | | Set Coefficients | | | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|---|
| | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | |
| City/Highway/Evap | 66.54 | 0.1424 | 0.04151 | 29.9 | 0.2878 | 0.03745 | 23.7 |

Emission Control Device Comments --

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|-------------------|--------------|-------------------------------------|--------------|

Manufacturer Test Vehicle Comments Callout: 25EV-D06.45V1-1

| | | | |
|--|--|---------------------------------------|--|
| Test # | SCRX10087430 | Test Procedure | 23 - 2-day evap |
| Exhaust Test # for this Evap Test | SCRX10087427 | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 07/20/2024 | Fuel | Gasoline |
| Fuel Batch ID | 11327 | Fuel Calibration Number | 1 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | CTC | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3570 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|--|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.2233656 | -- |

Manufacturer Test Comments Callout: 25EV-D06.45V1-1; Cert 2-Day/Evap (E10) Hot_Soak_HC_(g) = 0.03488, Diurnal (g) = 0.17194; 2-DayTotal = (0.03488+0.17194)*1.08 = 0.2233656 (g)

| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|---------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed | 150,000 miles | Federal Tier 3 Evap | HC-TOTAL-EQUIV | 0.2234 | 0.0057 | 0.229 | 0.6 | Pass |
| CA | 150,000 miles | Other | HC-TOTAL-EQUIV | 0.2234 | 0.0057 | 0.229 | 0.6 | Pass |

Certification Summary Information Report

| | | | |
|--|--|---------------------------------------|--|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Test # | SCRX10087433 | Test Procedure | 34 - Federal fuel 3-day evap |
| Exhaust Test # for this Evap Test | SCRX10087429 | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 08/02/2024 | Fuel | Gasoline |
| Fuel Batch ID | 11327 | Fuel Calibration Number | 1 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | CTC | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3746 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|--|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.283068 | -- |

Manufacturer Test Comments

Callout: 25EV-D06.45V1-1; Cert 3-Day/Evap (E10) Hot_Soak_HC_(g) = 0.06724 , Diurnal (g) = 0.19486; 3DayTotal = (0.06724+0.19486)*1.08 = 0.283068 (g)

| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|---------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed | 150,000 miles | Federal Tier 3 Evap | HC-TOTAL-EQUIV | 0.2831 | 0.009 | 0.292 | 0.6 | Pass |
| CA | 150,000 miles | Other | HC-TOTAL-EQUIV | 0.2831 | 0.009 | 0.292 | 0.6 | Pass |

Certification Summary Information Report

| | | | |
|--|--|---------------------------------------|--|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Test # | SCRX10087432 | Test Procedure | 32 - Federal Fuel Running Loss |
| Exhaust Test # for this Evap Test | SCRX10087429 | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 08/02/2024 | Fuel | Gasoline |
| Fuel Batch ID | 11327 | Fuel Calibration Number | 1 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | CTC | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3729 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|--|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0001404 | -- |

Manufacturer Test Comments

Callout: 25EV-D06.45V1-1; Cert 3-Day/Evap RL test(E10) RL=(0.00013 *1.08)=0.0001404

| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|---------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed | 150,000 miles | Federal Tier 3 Evap | HC-TOTAL-EQUIV | 0 | 0 | 0 | 0.05 | Pass |
| CA | 150,000 miles | Other | HC-TOTAL-EQUIV | 0 | 0 | 0 | 0.05 | Pass |

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|-------------------|--------------|-------------------------------------|--------------|

| | | | |
|--|--|---------------------------------------|--|
| Test # | SCRX10087434 | Test Procedure | 24 - Federal fuel refueling test (ORVR) |
| Exhaust Test # for this Evap Test | SCRX10087428 | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 07/24/2024 | Fuel | Gasoline |
| Fuel Batch ID | 11327 | Fuel Calibration Number | 1 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | CTC | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3588 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|---|-----------------------|---------------------------------------|
| HC (Hydrocarbon for Running Loss and ORVR) | 0.03348 | -- |

Manufacturer Test Comments

Callout: 25EV-D06.45V1-1; Cert ORVR(E10) ORVR = 0.031 *1.08 = 0.03348 g/gallons

| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|---------------------|---------------|----------------|--------|---------------------|----------|-----------|
| Fed | 150,000 miles | Federal Tier 3 Evap | HC | 0.033 | 0 | 0.03 | 0.2 | Pass |
| CA | 150,000 miles | Other | HC | 0.033 | 0 | 0.03 | 0.2 | Pass |

Certification Summary Information Report

| | | | |
|--|--|---------------------------------------|--|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Test # | SCRX10087465 | Test Procedure | 65 - Evap Canister Bleed Test |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 06/09/2024 | Fuel | Gasoline |
| Fuel Batch ID | -- | Fuel Calibration Number | -- |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | Phinia | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 0 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | -- | Road Speed Fan Usage | -- |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|--|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0071 | -- |

Manufacturer Test Comments Test run on a rig with aged components (not actual vehicle)

| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|---------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed | 150,000 miles | Federal Tier 3 Evap | HC-TOTAL-EQUIV | 0.0071 | 0 | 0.007 | 0.03 | Pass |
| CA | 150,000 miles | Other | HC-TOTAL-EQUIV | 0.0071 | 0 | 0.007 | 0.03 | Pass |

Certification Summary Information Report

| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|---|--|---|--------------|
| Fuel Properties | | | |
| Fuel Batch ID | 11327 | Fuel Calibration Number | 1 |
| Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | Fuel Batch Calibration Date | 06/08/2024 |
| Fuel Batch Calibration Effective Date | 06/08/2024 | Fuel Batch Calibration Ineffective Date | -- |
| Carbon Weight Fraction NMHC | 0.828 | Carbon Weight Fraction HC | -- |
| Exhaust Carbon Weight Fraction | -- | Fuel Methanol Volume Fraction | -- |
| Fuel Density (grams/cubic ft) | -- | Fuel Specific Gravity | 0.75 |
| Fuel Ethanol Volume Percent (%) | 9.7 | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | 17997 |
| Fuel Net Heat of Combustion (E10) (MJ/kg) | -- | Fuel Carbon Mass Fraction (E10) | -- |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | 0.828 | Weight Fraction CO2 | -- |
| Fuel Batch ID | 11350 | Fuel Calibration Number | 1 |
| Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline | Fuel Batch Calibration Date | 08/26/2024 |
| Fuel Batch Calibration Effective Date | 08/26/2024 | Fuel Batch Calibration Ineffective Date | -- |
| Carbon Weight Fraction NMHC | 0.828 | Carbon Weight Fraction HC | -- |
| Exhaust Carbon Weight Fraction | -- | Fuel Methanol Volume Fraction | -- |
| Fuel Density (grams/cubic ft) | -- | Fuel Specific Gravity | 0.752 |
| Fuel Ethanol Volume Percent (%) | 9.6 | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | 17966 |
| Fuel Net Heat of Combustion (E10) (MJ/kg) | -- | Fuel Carbon Mass Fraction (E10) | -- |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | 0.828 | Weight Fraction CO2 | -- |

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|-------------------|--------------|-------------------------------------|--------------|

Consolidated List of Standards

Exhaust Standards

| | | | |
|----------------------|---|-------------------------|---------------|
| Cert Region | California + CAA Section 177 states | Cert/In-Use Code | Cert |
| Vehicle Class | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | Standard Level | Other |
| Fuel | Gasoline | 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 | -- | -- | -- | -- | -- | 1 | 0 | 999.9 |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | PM | -- | -- | -- | -- | -- | 1 | 0 | 0.005 |

| | | | |
|----------------------|---|-------------------------|-------|
| Cert Region | California + CAA Section 177 states | Cert/In-Use Code | Cert |
| Vehicle Class | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | Standard Level | Other |
| Fuel | Gasoline | Test Procedure | HWFE |

| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std |
|---------------|---------------|----------------|-----|-------------|---------------------------------|-----------------------------------|---------|--------|---------|
| 150,000 miles | CO2 | -- | -- | -- | -- | -- | 1 | 0 | 999.9 |
| 150,000 miles | METHANE | -- | -- | -- | -- | -- | 1 | 0 | 999.99 |
| 150,000 miles | N2O | -- | -- | -- | -- | -- | 1 | 0 | 999.99 |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 0.230 |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |

Certification Summary Information Report

| | | | | |
|----------------------|---|-------------------------------------|--|--|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 | |
| Cert Region | California + CAA Section 177 states | Cert/In-Use Code | Cert | |
| Vehicle Class | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | Standard Level | Other | |
| Fuel | Gasoline | Test Procedure | California fuel 2-day exhaust (w/can load) | |

| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std |
|---------------|---------------|----------------|-----|-------------|---------------------------------|-----------------------------------|---------|--------|---------|
| 150,000 miles | CO | -- | -- | -- | -- | -- | 1 | 0 | 4.2 |
| 150,000 miles | CO-COMP | -- | -- | -- | -- | -- | 1 | 0 | 4.0 |
| 150,000 miles | CO2 | -- | -- | -- | -- | -- | 1 | 0 | 999.9 |
| 150,000 miles | HCHO | -- | -- | -- | -- | -- | 1 | 0 | 0.006 |
| 150,000 miles | METHANE | -- | -- | -- | -- | -- | 1 | 0 | 999.99 |
| 150,000 miles | METHANE-COMB | -- | -- | -- | -- | -- | 1 | 0 | 0.05 |
| 150,000 miles | N2O | -- | -- | -- | -- | -- | 1 | 0 | 999.99 |
| 150,000 miles | N2O-COMB | -- | -- | -- | -- | -- | 1 | 0 | 0.05 |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 0.230 |
| 150,000 miles | NMOG+NOX-COMP | -- | -- | -- | -- | -- | 1 | 0 | 0.350 |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | PM | -- | -- | -- | -- | -- | 1 | 0 | 0.010 |
| 150,000 miles | PM-COMP | -- | -- | -- | -- | -- | 1 | 0 | 0.007 |

| | | | | |
|----------------------|---|-------------------------|-----------------------------------|--|
| Cert Region | Federal | Cert/In-Use Code | Cert | |
| Vehicle Class | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) | Standard Level | Federal Tier 3 HD Class 3 Bin 230 | |
| Fuel | Gasoline | Test Procedure | SC03 | |

| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std |
|---------------|---------------|----------------|-----|-------------|---------------------------------|-----------------------------------|---------|--------|---------|
| 150,000 miles | CO | -- | -- | -- | -- | -- | 1 | 0 | 999.9 |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | PM | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |

Certification Summary Information Report

| | | | | | | | | | | |
|----------------------|----------------------|---|------------|--------------------|--|--|----------------|---------------|------------|--|
| Test Group | | VCRXD06.4575 | | | Evaporative/Refueling Family | | | VCRXR0213TR1 | | |
| Cert Region | | California + CAA Section 177 states | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000) | | | Standard Level | | | Other | | |
| Fuel | | Gasoline | | | Test Procedure | | | SC03 | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 150,000 miles | CO | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | PM | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |

| | | | | | | | | | | |
|----------------------|----------------------|---|------------|--------------------|--|--|----------------|-----------------------------------|------------|--|
| Cert Region | | Federal | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) | | | Standard Level | | | Federal Tier 3 HD Class 3 Bin 230 | | |
| Fuel | | Gasoline | | | 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 | -- | -- | -- | -- | -- | 1 | 0 | 999.9 | |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | PM | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |

| | | | | | | | | | | |
|----------------------|----------------------|---|------------|--------------------|--|--|----------------|-----------------------------------|------------|--|
| Cert Region | | Federal | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) | | | Standard Level | | | Federal Tier 3 HD Class 3 Bin 230 | | |
| Fuel | | Gasoline | | | Test Procedure | | | HWFE | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 150,000 miles | CO2 | -- | -- | -- | -- | -- | 1 | 0 | 999.9 | |
| 150,000 miles | METHANE | -- | -- | -- | -- | -- | 1 | 0 | 999.99 | |
| 150,000 miles | N2O | -- | -- | -- | -- | -- | 1 | 0 | 999.99 | |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 0.230 | |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 | |

Certification Summary Information Report

| | | | |
|----------------------|---|-------------------------------------|--|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
| Cert Region | Federal | Cert/In-Use Code | Cert |
| Vehicle Class | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) | Standard Level | Federal Tier 3 HD Class 3 Bin 230 |
| Fuel | Gasoline | Test Procedure | California fuel 2-day exhaust (w/can load) |

| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std |
|---------------|---------------|----------------|-----|-------------|---------------------------------|-----------------------------------|---------|--------|---------|
| 150,000 miles | CO | -- | -- | -- | -- | -- | 1 | 0 | 4.2 |
| 150,000 miles | CO-COMP | -- | -- | -- | -- | -- | 1 | 0 | 4.0 |
| 150,000 miles | CO2 | -- | -- | -- | -- | -- | 1 | 0 | 999.9 |
| 150,000 miles | HCHO | -- | -- | -- | -- | -- | 1 | 0 | 0.006 |
| 150,000 miles | METHANE | -- | -- | -- | -- | -- | 1 | 0 | 999.99 |
| 150,000 miles | METHANE-COMB | -- | -- | -- | -- | -- | 1 | 0 | 0.05 |
| 150,000 miles | N2O | -- | -- | -- | -- | -- | 1 | 0 | 999.99 |
| 150,000 miles | N2O-COMB | -- | -- | -- | -- | -- | 1 | 0 | 0.05 |
| 150,000 miles | NMOG | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | NMOG+NOX | -- | -- | -- | -- | -- | 1 | 0 | 0.230 |
| 150,000 miles | NMOG+NOX-COMP | -- | -- | -- | -- | -- | 1 | 0 | 0.350 |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | 1 | 0 | 999.999 |
| 150,000 miles | PM | -- | -- | -- | -- | -- | 1 | 0 | 0.010 |
| 150,000 miles | PM-COMP | -- | -- | -- | -- | -- | 1 | 0 | 0.007 |

Evaporative/Refueling Standards

| | | | |
|-------------------------------------|-------------------------|-----------------------|-------------------------------------|
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | California + CAA Section 177 states |
| Cert/In-Use Code | Cert | Standard Level | Other |
| Test Procedure | Federal fuel 3-day evap | | |

| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
|----------|---------------|----------------|----------------|-------|--------|
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.600 | 0.009 |

| | | | |
|-------------------------------------|------------------------------------|-----------------------|-------------------------------------|
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | California + CAA Section 177 states |
| Cert/In-Use Code | Cert | Standard Level | Other |
| Test Procedure | Federal fuel refueling test (ORVR) | | |

| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
|----------|---------------|---------------|----------------|------|--------|
| Gasoline | 150,000 miles | HC | -- | 0.20 | 0 |

Certification Summary Information Report

| | | | | | |
|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------|---------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 | | |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | California + CAA Section 177 states | | |
| Cert/In-Use Code | Cert | Standard Level | Other | | |
| Test Procedure | 2-day evap | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.600 | 0.0057 |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | Federal | | |
| Cert/In-Use Code | Cert | Standard Level | Federal Tier 3 Evap | | |
| Test Procedure | Evap Canister Bleed Test | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.030 | 0 |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | Federal | | |
| Cert/In-Use Code | Cert | Standard Level | Federal Tier 3 Evap | | |
| Test Procedure | 2-day evap | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.600 | 0.0057 |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | Federal | | |
| Cert/In-Use Code | Cert | Standard Level | Federal Tier 3 Evap | | |
| Test Procedure | Federal Fuel Running Loss | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.05 | 0 |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | California + CAA Section 177 states | | |
| Cert/In-Use Code | Cert | Standard Level | Other | | |
| Test Procedure | Evap Canister Bleed Test | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.030 | 0 |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | Federal | | |
| Cert/In-Use Code | Cert | Standard Level | Federal Tier 3 Evap | | |
| Test Procedure | Federal fuel refueling test (ORVR) | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC | -- | 0.20 | 0 |

Certification Summary Information Report

| | | | | | |
|-------------------------------------|---------------------------|-------------------------------------|-------------------------------------|------------|---------------|
| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 | | |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | California + CAA Section 177 states | | |
| Cert/In-Use Code | Cert | Standard Level | Other | | |
| Test Procedure | Federal Fuel Running Loss | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.05 | 0 |
| | | | | | |
| Evaporative/Refueling Family | VCRXR0213TR1 | Cert Region | Federal | | |
| Cert/In-Use Code | Cert | Standard Level | Federal Tier 3 Evap | | |
| Test Procedure | Federal fuel 3-day evap | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.600 | 0.009 |

Certification Summary Information Report

| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|----------------------|---|------------------------------|--|
| 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 | | VCRXD06.4575 | Evaporative/Refueling Family | | VCRXR0213TR1 |
|--|--|--------------|------------------------------|---|--------------|
| 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 | |
| Certification Region | | | | | |
| CA | California + CAA Section 177 states | | FA | Federal | |
| Exhaust Emission Standard Level | | | | | |
| 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 | | VCRXD06.4575 | Evaporative/Refueling Family | | VCRXR0213TR1 |
|-------------------------------|---|--------------|--|----------------------------|--------------|
| 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 | | | | |
| Transmission Type Code | | | | | |
| 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) | | |
| Drive System Code | | | | | |
| 4 | 4-Wheel Drive | P | Part-time 4-Wheel Drive | | |

Certification Summary Information Report

| Test Group | VCRXD06.4575 | Evaporative/Refueling Family | VCRXR0213TR1 |
|--------------------------------------|---------------------------------|-------------------------------------|----------------------------------|
| 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 |