



Application for Certification  
Part 1

2027 ModelYear

Durability Group: VCRXGPGNNF38  
Evaporative Familie(s): VCRXF0213TR0, VCRXF0391TR0

Test Group: VCRXD06.4573

Four Stroke, Otto Cycle, Gasoline Fueled, Ported FI

Ceramic Monolith Pt, Pd, Rh Close Coupled Catalyst

6.4 Liter V-8  
HDV2b/MDV1  
Applicable Standards:  
50 State - Tier 3 BIN 250

Vehicles Covered:  
RAM 2500 Chassis Cab, 4WD/RWD

Vehicle(s) Run:  
VID 1 config., Vehicle ID L5DJ78144 (Exh.)  
VID 2 config., Vehicle ID L5DJ25253 (Evap)

For Questions, Alec Soulliere 248.285.8432 Gary J. Arvan 248.221.9461  
All testing completed – Unconditional Cert request



## Table of Contents

Correspondence & Communication	Section 1
Durability Group Description Summary	Section 2
Evaporative/Refueling Family Description Summary	Section 3
Durability Procedure Description	Section 4
Test Group Description Summary	Section 5
	Reserved
	Reserved
Emission testing Waiver Statement and Attestatons	Section 8
OBD Description	Section 9
Description of Alternate Fueled Vehicles	Section 10
List of AECD Used in Test Group	Section 11
List of Certified Vehicles & Complete Test Parameters	Section 12
Total Projected Sales for This Test Group - See Common Section 16	
Request for Certificate / Cover Letters	Section 14
Fee Filing Form	Section 15
VECI Label	Section 15
Confidential Information for Test Group – See Common Section 16	
California Unique Information	Section 17
Exhaust Data Carryover	Section 17.15
VI's for Data Fleet	Section 17.16
Data Fleet Test Logs	Section 17.16



**Section 1 Correspondence and Communication**

For questions dealing with the Part I application for this Test Group contact:

<b><u>Name</u></b>	Gary J. Arvan	Alec Soulliere
<b><u>Title</u></b>	Director	Certification Engineer
<b><u>Responsibility</u></b>	Vehicle Safety & Environmental Homologation Programs	Application Submission
<b><u>Phone</u></b>	248.221.9461	248.285.8432
<b><u>E-mail</u></b>	<a href="mailto:gary.arvan@stellantis.com">gary.arvan@stellantis.com</a>	<a href="mailto:alec.soulliere@stellantis.com">alec.soulliere@stellantis.com</a>
<b><u>Fax</u></b>	248.576.7928	248.576.7928

For a complete listing of all Correspondence and Communication Information for FCA US LLC, please see:  
"Common Section Book - Section 1 Correspondence and Communication"



**Section 2 Durability Group Description**

Durability Group Name: VCRXGPGNNF38

For a complete description of the Durability Group Description please see:  
"Common Section Book - Section 2. Durability Group Description"



**Section 3 Evaporative/Refueling Family Description**

Evaporative/Refueling Family Name(s): VCRXF0213TR0  
VCRXF0391TR0

For a complete description of the Evaporative/Refueling Family Description please see:  
"Common Section Book - Section 3. Evaporative/Refueling Family Description "

For ORVR Agency Review Sign Off please see:  
"Common Section Book - Section 16. Agency Approvals"



**Section 4 Durability Procedure Description**

Durability Group: VCRXGPGNNF38

Durability Provision Statement:

Based on FCA US LLC 's good engineering judgement, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards.

For a complete description of the Durability Procedure please see:  
"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.	Aged Components were used.
Indicate whether additive or multiplicative DF's were used.	N/A
List all DF's calculated at both full and intermediate useful life	EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)
And applicable standards (test results and vehicle description).	CARB - Reference Cert Review Sheet

Evaporative/Refueling Family:                   VCRXF0213TR0  
  VCRXF0391TR0

For a complete description of the Durability Procedure please see:  
"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.	Yes - Bench Aging
Indicate whether additive or multiplicative DF's were used.	Additive
List all DF's calculated at both full and intermediate useful life	EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)
And applicable standards (test results and vehicle description).	CARB - Reference Cert Review Sheet



**Section 5   Test Group Description**

Test Group Name:	VCRXD06.4573
Engine displacements covered:	6.4L
Arrangement and number of cylinders:	V-8
Vehicle class(es) covered:	HDV2b/MDV1
Emission standards class:	BIN 250
AB71 Qualified Vehicles:	No

## Certification Summary Information Report

<b>Manufacturer</b>	FCA US LLC	<b>Manufacturer Code</b>	CRX
<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Certificate Number</b>	--	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	--	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	--	<b>Conditional Certificate</b>	--
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	03/19/2026 04:14:07 PM
<b>Model Year</b>	2027		

  

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

  

<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>	HDV1
<b>Federal Clean Fuel Vehicle</b>	Yes	<b>Federal Clean Fuel Vehicle Standard</b>	LEV
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Durability Group Name</b>	VCRXGPGNNF38	<b>Durability Group Equivalency Factor</b>	1.6
<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>	--	<b>CAP2000 Conditional Certificate?</b>	N/A
<b>Independent Commercial Importer?</b>	--	<b>Alternative Fuel Converter Certificate?</b>	--
<b>SFTP Federal Composite Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	No
<b>SFTP LEV-III Composite Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	VCRXT03.6570
<b>Test Group OBD Compliance Level</b>	Partial - with deficiencies	<b>Number of Test Group OBD Deficiencies</b>	2
<b>OBD Deficiencies Comments</b>	SAE J1979-2 Implementation, Adaptive Cruise Control and Parallel Park SystemsDefault Action		
<b>Mfr Test Group Comments</b>	E10 tests: CH4 Std=0.05; CH4 combined = 0.027(0.55)+0.0152(0,45)=0.022 g/mi; N2O Std=0.05;N2O combined = 0.004(0.55)+0.002(0.45)=0.003 g/mi		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	03/18/2026 05:10:22 PM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	hdpe/co-ex				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	Yes	<b>Air Intake System Vapor Storage Device Description</b>	Panel				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	219	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	0				
<b>Mfr Evaporative/Refueling Family Comments</b>	This Evaporative Family is being certified with an evaporative FEL of 0.600 grams						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	Yes						
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>				
VCRXF0213TR0-LF1	50 State	0.02	--				
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
FCA US LLC	12 - RAM	945 - 2500 Cab Chassis 4X4	California + CAA Section 177 states	4-Wheel Drive	Automatic	8	Yes
FCA US LLC	12 - RAM	940 - 2500 Cab Chassis 4X2	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	8	Yes
FCA US LLC	12 - RAM	940 - 2500 Cab Chassis 4X2	Federal	2-Wheel Drive, Rear	Automatic	8	Yes
FCA US LLC	12 - RAM	945 - 2500 Cab Chassis 4X4	Federal	4-Wheel Drive	Automatic	8	Yes
<b>Engine Description</b>							
<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--				
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--				
<b>Engine Block Arrangement</b>	V-shaped engine	<b>Mfr Engine Block Arrangement Description</b>	--				
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	SAE 0W-40				
<b>Number of Cylinders/Rotors</b>	8	<b>Mechanically Variable Compression Ratio Indicator</b>	N				

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0213TR0	
<b>After Treatment Device(s) (ATD)</b>				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Rhodium	Ceramic	Monolith
<b>Mfr After Treatment Device (ATD) Comments</b>	THREE-WAY CATALYST			
<b>Direct Ozone Reduction (DOR) Device</b>	Not Equipped			
<b>Mfr Emission Control Device Comments</b>	--			
<b>Engine Configuration Number 1</b>				
<b>Engine Displacement (liters)</b>	6.4	<b>Engine Rated Horsepower</b>	405	
<b>Number of Inlet Valves Per Cylinder</b>	1	<b>Number of Exhaust Valves Per Cylinder</b>	1	
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Number of Air Aspiration Devices</b>	0	
<b>Air Aspiration Device Configuration</b>	--	<b>Charge Air Cooler Type</b>	N/A	
<b>Air Aspiration Drive Method(s)</b>	--			
<b>Cylinder Deactivation</b>	Yes			
<b>Cylinder Deactivation Description</b>	Multiple Displacement Solenoid (MDS)			
<b>Variable Valve Timing</b>	Yes			
<b>Variable Valve Timing System Description</b>	Cam phaser			
<b>Variable Valve Lift?</b>	No			
<b>Variable Valve Lift System Description</b>	--			
<b>Number of Knock Sensors</b>	2	<b>Number of Air/Fuel Sensors</b>	4	
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--	
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--	
<b>Air/Fuel Sensor # 3 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 3 Description</b>	--	
<b>Air/Fuel Sensor # 4 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 4 Description</b>	--	
<b>Mfr Air/Fuel Sensor Comments</b>	--			
<b>Exhaust Gas Recirculation</b>	Yes	<b>Cooled Exhaust Gas Recirculation</b>	Yes	
<b>EGR Type</b>	Electronic/Electric	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--	
<b>Closed Loop Air Injection System</b>	No			
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--	
<b>Mfr Engine Configuration Comments</b>	--			

### Certification Summary Information Report

<b>Test Group</b>		VCRXD06.4573				<b>Evaporative/Refueling Family</b>			VCRXF0213TR0		
<b>Official Test Numbers</b>											
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>	<b>Cold CO</b>	<b>Highway</b>	<b>EPA City Litmus Value</b>	<b>EPA City Litmus Threshold</b>	<b>EPA Highway Litmus Value</b>	<b>EPA Highway Litmus Threshold</b>	<b>CREE Weighting Factor</b>	
Gasoline	SCRX91006113	SCRX91006114	SCRX10087762	--	SCRX91006110	--	228.2	--	286.1	1.0	
<b>SFTP LEV-III Official Test Numbers</b>											
<b>Test Group Fuel</b>	<b>FTP</b>		<b>US06</b>			<b>SC03</b>					
Gasoline	SCRX91006113		SCRX91006114			SCRX10087762					

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
-------------------	--------------	-------------------------------------	--------------

**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

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
-------------------	--------------	-------------------------------------	--------------

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

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

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.600	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.2234	0.0057	0.229	0.600	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Test #</b>	<b>SCRX10087433</b>	<b>Test Procedure</b>	<b>34 - Federal fuel 3-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	SCRX10087429	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/02/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	11327	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	CTC		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3746	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.0090	0.292	0.600	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.2831	0.0090	0.292	0.600	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Test #</b>	<b>SCRX10087432</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	SCRX10087429	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/02/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	11327	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	CTC		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3729	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Test #</b>	<b>SCRX10087465</b>	<b>Test Procedure</b>	<b>65 - Evap Canister Bleed Test</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	06/09/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Phinia		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	0	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	--	<b>Road Speed Fan Usage</b>	--

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.0000	0.007	0.030	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.0071	0.0000	0.007	0.030	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
-------------------	--------------	-------------------------------------	--------------

**Emission Data Vehicle Information**

Vehicle ID / Configuration	L5DJ78144 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SCRXD06.45V2	Original Evaporative/Refueling Family	SCRXF0391TP0
Original Test Vehicle Model Year	2025		
<b>Vehicle Model</b>			
Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	2500 Cab Chassis 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 Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--	Odometer Correction Factor	1
Odometer Correction -- Initial	0	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor	
Odometer Correction Sign	Miles		
Odometer Correction Units	Miles	Rated Horsepower	405
Engine Code	AA-0650	Air Aspiration Method, if 'Other'	
Displacement (liters)	6.4	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	2-Wheel Drive, Rear
Number of Air Aspiration Devices	0	Aged Emission Components	150,000 (mi)
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	9000
Shift Indicator Light Usage	Not equipped	N/V Ratio	28.8
Curb Weight (lbs)	8992	# of Transmission Gears	8
GVWR (lbs)	10000	Creeper Gear	No
Axle Ratio	4.1		
Transmission Type	Automatic		
Transmission Lockup	Yes		

**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	58.69	1.0769	0.0699	-2.09	1.3569	0.06268	38.3
US06	58.69	1.0769	0.0699	-2.09	1.3569	0.06268	N/A

### Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0213TR0
<b>Emission Control Device Comments</b>	--		
<b>Manufacturer Test Vehicle Comments</b>	callout: 25DA-D06.45V2-1		

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0213TR0
<b>Test #</b>	<b>SCRX91006113</b>	<b>Test Procedure</b>	<b>25 - California fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	11/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	41630	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<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>	5094	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>Test Results</b>			



## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0213TR0		
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 2b Bin 250	CO	0.82	--	--	--	0	1	0.8	6.4	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	CO-COMP	0.94	--	--	--	0	1	0.9	22.0	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	CO2	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	METHANE	0.027	--	--	--	0	1	0.03	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	METHANE-COMB	0.022	--	--	--	0	1	0.02	0.05	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	N2O	0.004	--	--	--	0	1	0.00	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	N2O-COMB	0.003	--	--	--	0	1	0.00	0.05	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0599	--	--	--	0	1	0.060	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0956	--	--	--	--	--	0.096	0.250	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX-COMP	0.0416	--	--	--	0	1	0.042	0.800	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0357	--	--	--	0	1	0.036	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM	0.0006	--	--	--	0	1	0.001	0.008	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM-COMP	0.0008	--	--	--	0	1	0.001	0.010	Pass
CA	150,000 miles	Other	CO	0.82	--	--	--	0	1	0.8	6.4	Pass
CA	150,000 miles	Other	CO-COMP	0.94	--	--	--	0	1	0.9	22.0	Pass
CA	150,000 miles	Other	CO2	999	--	--	--	0	1	999	--	--
CA	150,000 miles	Other	METHANE	0.027	--	--	--	0	1	0.03	999.99	Pass
CA	150,000 miles	Other	METHANE-COMB	0.022	--	--	--	0	1	0.02	0.05	Pass
CA	150,000 miles	Other	N2O	0.004	--	--	--	0	1	0.00	999.99	Pass

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0213TR0		
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	0.00	0.05	Pass
CA	150,000 miles	Other	NMOG	0.0599	--	--	--	0	1	0.060	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0956	--	--	--	--	--	0.096	0.250	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0416	--	--	--	0	1	0.042	0.800	Pass
CA	150,000 miles	Other	NOX	0.0357	--	--	--	0	1	0.036	999.999	Pass
CA	150,000 miles	Other	PM	0.0006	--	--	--	0	1	0.001	0.008	Pass
CA	150,000 miles	Other	PM-COMP	0.0008	--	--	--	0	1	0.001	0.010	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Test #</b>	<b>SCRX91006110</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	11/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	41630	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<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>	5103	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>Test Results</b>			
<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE Equivalent Value (miles per gallon)</b>	
METHANE (CH4 - Methane)	0.0151972	--	
CO (Carbon Monoxide)	0.3318196	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.0677667	--	
DT-EER (Drive Trace Energy Economy Rating)	0.424844	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.2693624	--	
MFR FE (Manufacturer Fuel Economy)	14.595973	--	
NOX (Nitrogen Oxide)	0.003289	--	
N2O (Nitrous Oxide)	0.0023497	--	
HC-NM (Non-methane Hydrocarbon)	0.0065254	--	
NMOG (Non-methane organic gases)	0.0067211	--	
HC-TOTAL (Total Hydrocarbon)	0.0213784	--	
<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>	
Carbon-Related Exhaust Emissions	9999.9999999	999	
<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>	
Carbon dioxide	593.6035767	--	
<b>Manufacturer Test Comments</b>	None		

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0213TR0		
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 2b Bin 250	CO2	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	METHANE	0.015	--	--	--	0	1	0.02	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	N2O	0.002	--	--	--	0	1	0.00	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0067	--	--	--	0	1	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0100	--	--	--	--	--	0.010	0.250	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0033	--	--	--	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	0.00	999.99	Pass
CA	150,000 miles	Other	NMOG	0.0067	--	--	--	0	1	0.007	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0100	--	--	--	--	--	0.010	0.250	Pass
CA	150,000 miles	Other	NOX	0.0033	--	--	--	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

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Test #</b>	<b>SCRX91006114</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	11/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	41630	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<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>	5121	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1287.4559326	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	796.6958618	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0187065	--
CO (Carbon Monoxide)	1.3460367	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.419692	--
DT-EER (Drive Trace Energy Economy Rating)	-0.7417969	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.6845996	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0108801	--
N2O (Nitrous Oxide)	0.0027827	--
HC-NM (Non-methane Hydrocarbon)	0.0068256	--
NMOG (Non-methane organic gases)	0.0070304	--
PM (Particulate Matter)	0.0009522	--
HC-TOTAL (Total Hydrocarbon)	0.0251084	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	906.0286255	--

## Manufacturer Test Comments

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

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0213TR0		
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 2b Bin 250	CO	1.35	--	--	--	0	1	1.4	999.9	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0070	--	--	--	0	1	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0179	--	--	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0109	--	--	--	0	1	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM	0.0010	--	--	--	0	1	0.001	999.999	Pass
CA	150,000 miles	Other	CO	1.35	--	--	--	0	1	1.4	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0070	--	--	--	0	1	0.007	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0179	--	--	--	--	--	0.018	999.999	Pass
CA	150,000 miles	Other	NOX	0.0109	--	--	--	0	1	0.011	999.999	Pass
CA	150,000 miles	Other	PM	0.0010	--	--	--	0	1	0.001	999.999	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
-------------------	--------------	-------------------------------------	--------------

<b>Test #</b>	SCRX10087762	<b>Test Procedure</b>	95 - SC03
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	09/14/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	11350	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	CPG		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5030	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.025386	--
CO (Carbon Monoxide)	0.752334	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.131	--
DT-EER (Drive Trace Energy Economy Rating)	-0.11	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.1525	--
MFR FE (Manufacturer Fuel Economy)	9.5	9.5
NOX (Nitrogen Oxide)	0.003747	--
HC-NM (Non-methane Hydrocarbon)	0.004523	--
NMOG (Non-methane organic gases)	0.004659	--
PM (Particulate Matter)	0.0008	--
HC-TOTAL (Total Hydrocarbon)	0.029114	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	919	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	918.21968	--

**Manufacturer Test Comments**                      25DA-D06.45V2-1 sc03 @ALVW 150k Auto Fixed cE10

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0213TR0		
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 2b Bin 250	CO	0.75	--	--	--	0	1	0.8	999.9	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0047	--	--	--	0	1	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0084	--	--	--	--	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0037	--	--	--	0	1	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM	0.0008	--	--	--	0	1	0.001	999.999	Pass
CA	150,000 miles	Other	CO	0.7523	--	--	--	0	1	0.752	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0047	--	--	--	0	1	0.005	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0084	--	--	--	--	--	0.008	999.999	Pass
CA	150,000 miles	Other	NOX	0.0037	--	--	--	0	1	0.004	999.999	Pass
CA	150,000 miles	Other	PM	0.0008	--	--	--	0	1	0.001	999.999	Pass

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0213TR0
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>11327</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	06/08/2024
<b>Fuel Batch Calibration Effective Date</b>	06/08/2024	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	0.828	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.75
<b>Fuel Ethanol Volume Percent (%)</b>	9.7	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17997
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>41630</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline	<b>Fuel Batch Calibration Date</b>	04/24/2024
<b>Fuel Batch Calibration Effective Date</b>	04/24/2024	<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>	0.749
<b>Fuel Ethanol Volume Percent (%)</b>	9.8	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17910
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.826	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>11350</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline	<b>Fuel Batch Calibration Date</b>	08/26/2024
<b>Fuel Batch Calibration Effective Date</b>	08/26/2024	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	0.828	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.752
<b>Fuel Ethanol Volume Percent (%)</b>	9.6	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17966
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0						
<b>Consolidated List of Standards</b>									
<b>Exhaust Standards</b>									
<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert						
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	<b>Standard Level</b>	Federal Tier 3 HD Class 2b Bin 250						
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	California fuel 2-day exhaust (w/can load)						
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CO	--	--	--	0	0	1	0	6.4
150,000 miles	CO-COMP	--	--	--	0	0	1	0	22.0
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	HCHO	--	--	--	0	0	1	0	0.006
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	METHANE-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	N2O-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	1	0	0.800
150,000 miles	NOX	--	--	--	0	0	1	0	999.999
150,000 miles	PM	--	--	--	0	0	1	0	0.008
150,000 miles	PM-COMP	--	--	--	0	0	1	0	0.010
<b>Cert Region</b>				California + CAA Section 177 states	<b>Cert/In-Use Code</b>		Cert		
<b>Vehicle Class</b>				MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>		Other		
<b>Fuel</b>				Gasoline	<b>Test Procedure</b>		US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CO	--	--	--	0	0	1	0	999.9
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	999.999
150,000 miles	NOX	--	--	--	0	0	1	0	999.999
150,000 miles	PM	--	--	--	0	0	1	0	999.999

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>	Other
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	0	0	1	0	6.4
150,000 miles	CO-COMP	--	--	--	0	0	1	0	22.0
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	HCHO	--	--	--	0	0	1	0	0.006
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	METHANE-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	N2O-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	1	0	0.800
150,000 miles	NOX	--	--	--	0	0	1	0	999.999
150,000 miles	PM	--	--	--	0	0	1	0	0.008
150,000 miles	PM-COMP	--	--	--	0	0	1	0	0.010

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>	Other
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	SC03

  

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

### Certification Summary Information Report

<b>Test Group</b>		VCRXD06.4573			<b>Evaporative/Refueling Family</b>			VCRXF0213TR0		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			<b>Standard Level</b>			Federal Tier 3 HD Class 2b Bin 250		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		

  

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

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			<b>Standard Level</b>			Federal Tier 3 HD Class 2b Bin 250		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		

  

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NOX	--	--	--	0	0	1	0	999.999

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>	Other
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NOX	--	--	--	0	0	1	0	999.999

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	<b>Standard Level</b>	Federal Tier 3 HD Class 2b Bin 250
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	SC03

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

#### Evaporative/Refueling Standards

<b>Evaporative/Refueling Family</b>	VCRXF0213TR0	<b>Cert Region</b>	Federal
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap
<b>Test Procedure</b>	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573		<b>Evaporative/Refueling Family</b>	VCRXF0213TR0	
<b>Evaporative/Refueling Family</b>	VCRXF0213TR0		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0057
<b>Evaporative/Refueling Family</b>	VCRXF0213TR0		<b>Cert Region</b>	California + CAA Section 177 states	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Other	
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0090
<b>Evaporative/Refueling Family</b>	VCRXF0213TR0		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0090
<b>Evaporative/Refueling Family</b>	VCRXF0213TR0		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.030	0.0000
<b>Evaporative/Refueling Family</b>	VCRXF0213TR0		<b>Cert Region</b>	California + CAA Section 177 states	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Other	
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000
<b>Evaporative/Refueling Family</b>	VCRXF0213TR0		<b>Cert Region</b>	California + CAA Section 177 states	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Other	
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.030	0.0000

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0		
<b>Evaporative/Refueling Family</b>	VCRXF0213TR0	<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Other		
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0057

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0213TR0
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	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		VCRXD06.4573	Evaporative/Refueling Family		VCRXF0213TR0
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		VCRXD06.4573	Evaporative/Refueling Family		VCRXF0213TR0
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**

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0213TR0
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		
<b>Additional Terms and Acronyms</b>			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

## Certification Summary Information Report

<b>Manufacturer</b>	FCA US LLC	<b>Manufacturer Code</b>	CRX
<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Certificate Number</b>	--	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	--	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	--	<b>Conditional Certificate</b>	--
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	03/19/2026 04:14:07 PM
<b>Model Year</b>	2027		

  

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

  

<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>	HDV1
<b>Federal Clean Fuel Vehicle</b>	Yes	<b>Federal Clean Fuel Vehicle Standard</b>	LEV
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Durability Group Name</b>	VCRXGPGNNF38	<b>Durability Group Equivalency Factor</b>	1.6
<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>	--	<b>CAP2000 Conditional Certificate?</b>	N/A
<b>Independent Commercial Importer?</b>	--	<b>Alternative Fuel Converter Certificate?</b>	--
<b>SFTP Federal Composite Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	No
<b>SFTP LEV-III Composite Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	VCRXT03.6570
<b>Test Group OBD Compliance Level</b>	Partial - with deficiencies	<b>Number of Test Group OBD Deficiencies</b>	2
<b>OBD Deficiencies Comments</b>	SAE J1979-2 Implementation, Adaptive Cruise Control and Parallel Park SystemsDefault Action		
<b>Mfr Test Group Comments</b>	E10 tests: CH4 Std=0.05; CH4 combined = 0.027(0.55)+0.0152(0,45)=0.022 g/mi; N2O Std=0.05;N2O combined = 0.004(0.55)+0.002(0.45)=0.003 g/mi		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	03/18/2026 05:11:32 PM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	hdpe/co-ex				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	Yes	<b>Air Intake System Vapor Storage Device Description</b>	Panel				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	394	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	0				
<b>Mfr Evaporative/Refueling Family Comments</b>	This Evaporative Family is being certified with an evaporative FEL of 0.600 grams						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	Yes						
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>				
VCRXF0391TR0-LF1	50 State	0.02	--				
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
FCA US LLC	12 - RAM	940 - 2500 Cab Chassis 4X2	Federal	2-Wheel Drive, Rear	Automatic	8	Yes
FCA US LLC	12 - RAM	945 - 2500 Cab Chassis 4X4	Federal	4-Wheel Drive	Automatic	8	Yes
FCA US LLC	12 - RAM	940 - 2500 Cab Chassis 4X2	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	8	Yes
FCA US LLC	12 - RAM	945 - 2500 Cab Chassis 4X4	California + CAA Section 177 states	4-Wheel Drive	Automatic	8	Yes
<b>Engine Description</b>							
<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--				
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--				
<b>Engine Block Arrangement</b>	V-shaped engine	<b>Mfr Engine Block Arrangement Description</b>	--				
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	SAE 0W-40				
<b>Number of Cylinders/Rotors</b>	8	<b>Mechanically Variable Compression Ratio Indicator</b>	N				

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0391TR0	
<b>After Treatment Device(s) (ATD)</b>				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Rhodium	Ceramic	Monolith
<b>Mfr After Treatment Device (ATD) Comments</b>	THREE-WAY CATALYST			
<b>Direct Ozone Reduction (DOR) Device</b>	Not Equipped			
<b>Mfr Emission Control Device Comments</b>	--			
<b>Engine Configuration Number 1</b>				
<b>Engine Displacement (liters)</b>	6.4	<b>Engine Rated Horsepower</b>	405	
<b>Number of Inlet Valves Per Cylinder</b>	1	<b>Number of Exhaust Valves Per Cylinder</b>	1	
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Number of Air Aspiration Devices</b>	0	
<b>Air Aspiration Device Configuration</b>	--	<b>Charge Air Cooler Type</b>	N/A	
<b>Air Aspiration Drive Method(s)</b>	--			
<b>Cylinder Deactivation</b>	Yes			
<b>Cylinder Deactivation Description</b>	Multiple Displacement Solenoid (MDS)			
<b>Variable Valve Timing</b>	Yes			
<b>Variable Valve Timing System Description</b>	Cam phaser			
<b>Variable Valve Lift?</b>	No			
<b>Variable Valve Lift System Description</b>	--			
<b>Number of Knock Sensors</b>	2	<b>Number of Air/Fuel Sensors</b>	4	
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--	
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--	
<b>Air/Fuel Sensor # 3 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 3 Description</b>	--	
<b>Air/Fuel Sensor # 4 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 4 Description</b>	--	
<b>Mfr Air/Fuel Sensor Comments</b>	--			
<b>Exhaust Gas Recirculation</b>	Yes	<b>Cooled Exhaust Gas Recirculation</b>	Yes	
<b>EGR Type</b>	Electronic/Electric	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--	
<b>Closed Loop Air Injection System</b>	No			
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--	
<b>Mfr Engine Configuration Comments</b>	--			

### Certification Summary Information Report

<b>Test Group</b>		VCRXD06.4573			<b>Evaporative/Refueling Family</b>			VCRXF0391TR0		
<b>Official Test Numbers</b>										
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>	<b>Cold CO</b>	<b>Highway</b>	<b>EPA City Litmus Value</b>	<b>EPA City Litmus Threshold</b>	<b>EPA Highway Litmus Value</b>	<b>EPA Highway Litmus Threshold</b>	<b>CREE Weighting Factor</b>
Gasoline	SCRX91006113	SCRX91006114	SCRX10087762	--	SCRX91006110	--	228.2	--	286.1	1.0
<b>SFTP LEV-III Official Test Numbers</b>										
<b>Test Group Fuel</b>	<b>FTP</b>		<b>US06</b>			<b>SC03</b>				
Gasoline	SCRX91006113		SCRX91006114			SCRX10087762				

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
-------------------	--------------	-------------------------------------	--------------

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

**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

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Manufacturer Test Vehicle Comments</b>	Callout: 25EV-D06.45V1-1		
<b>Test #</b>	<b>SCRX10087430</b>	<b>Test Procedure</b>	<b>23 - 2-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	SCRX10087427	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	07/20/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	11327	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	CTC		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3570	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.600	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.2234	0.0057	0.229	0.600	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Test #</b>	<b>SCRX10087433</b>	<b>Test Procedure</b>	<b>34 - Federal fuel 3-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	SCRX10087429	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/02/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	11327	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	CTC		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3746	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.0090	0.292	0.600	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.2831	0.0090	0.292	0.600	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Test #</b>	<b>SCRX10087432</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	SCRX10087429	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/02/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	11327	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	CTC		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3729	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Test #</b>	<b>SCRX10087466</b>	<b>Test Procedure</b>	<b>65 - Evap Canister Bleed Test</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	06/06/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Phinia		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	0	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	--	<b>Road Speed Fan Usage</b>	--

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.0079	--

**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	0.0079	0.0000	0.008	0.030	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.0079	0.0000	0.008	0.030	Pass

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
-------------------	--------------	-------------------------------------	--------------

**Emission Data Vehicle Information**

Vehicle ID / Configuration	L5DJ78144 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SCRXD06.45V2	Original Evaporative/Refueling Family	SCRXF0391TP0
Original Test Vehicle Model Year	2025		
<b>Vehicle Model</b>			
Represented Test Vehicle Make	RAM	Represented Test Vehicle Model	2500 Cab Chassis 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 Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--	Odometer Correction Factor	1
Odometer Correction -- Initial	0	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor	
Odometer Correction Sign	Miles		
Odometer Correction Units	Miles	Rated Horsepower	405
Engine Code	AA-0650	Air Aspiration Method, if 'Other'	
Displacement (liters)	6.4	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	2-Wheel Drive, Rear
Number of Air Aspiration Devices	0	Aged Emission Components	150,000 (mi)
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	9000
Shift Indicator Light Usage	Not equipped	N/V Ratio	28.8
Curb Weight (lbs)	8992	# of Transmission Gears	8
GVWR (lbs)	10000	Creeper Gear	No
Axle Ratio	4.1		
Transmission Type	Automatic		
Transmission Lockup	Yes		

**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	58.69	1.0769	0.0699	-2.09	1.3569	0.06268	38.3
US06	58.69	1.0769	0.0699	-2.09	1.3569	0.06268	N/A

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Emission Control Device Comments</b>	--		
<b>Manufacturer Test Vehicle Comments</b>	callout: 25DA-D06.45V2-1		

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0391TR0
<b>Test #</b>	<b>SCRX91006113</b>	<b>Test Procedure</b>	<b>25 - California fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	11/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	41630	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<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>	5094	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>Test Results</b>			

**Certification Summary Information Report**

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
-------------------	--------------	-------------------------------------	--------------

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	885.3612061	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	789.7398682	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	772.1397705	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0274712	--
CO (Carbon Monoxide)	0.8167551	--
METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only)	0.0219479	--
N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only)	0.0030797	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.6954169	--
DT-EER (Drive Trace Energy Economy Rating)	2.3742304	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.9217079	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0356658	--
N2O (Nitrous Oxide)	0.0036769	--
HC-NM (Non-methane Hydrocarbon)	0.0544846	--
NMOG (Non-methane organic gases)	0.0599211	--
PM (Particulate Matter)	0.0006318	--
HC-TOTAL (Total Hydrocarbon)	0.0813337	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	804.696228	--

**Manufacturer Test Comments**

Amendment to Report COMP5004005CRX (test number 20250004005, EV-CIS submission SCR91006113); 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 SCR91006113 and Hwy test number SCR91006110 were used to calculate the combined N2O and combined CHR results. Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 3, FE BAG 2

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0391TR0		
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 2b Bin 250	CO	0.82	--	--	--	0	1	0.8	6.4	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	CO-COMP	0.94	--	--	--	0	1	0.9	22.0	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	CO2	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	METHANE	0.027	--	--	--	0	1	0.03	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	METHANE-COMB	0.022	--	--	--	0	1	0.02	0.05	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	N2O	0.004	--	--	--	0	1	0.00	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	N2O-COMB	0.003	--	--	--	0	1	0.00	0.05	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0599	--	--	--	0	1	0.060	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0956	--	--	--	--	--	0.096	0.250	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX-COMP	0.0416	--	--	--	0	1	0.042	0.800	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0357	--	--	--	0	1	0.036	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM	0.0006	--	--	--	0	1	0.001	0.008	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM-COMP	0.0008	--	--	--	0	1	0.001	0.010	Pass
CA	150,000 miles	Other	CO	0.82	--	--	--	0	1	0.8	6.4	Pass
CA	150,000 miles	Other	CO-COMP	0.94	--	--	--	0	1	0.9	22.0	Pass
CA	150,000 miles	Other	CO2	999	--	--	--	0	1	999	--	--
CA	150,000 miles	Other	METHANE	0.027	--	--	--	0	1	0.03	999.99	Pass
CA	150,000 miles	Other	METHANE-COMB	0.022	--	--	--	0	1	0.02	0.05	Pass
CA	150,000 miles	Other	N2O	0.004	--	--	--	0	1	0.00	999.99	Pass

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0391TR0		
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	0.00	0.05	Pass
CA	150,000 miles	Other	NMOG	0.0599	--	--	--	0	1	0.060	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0956	--	--	--	--	--	0.096	0.250	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0416	--	--	--	0	1	0.042	0.800	Pass
CA	150,000 miles	Other	NOX	0.0357	--	--	--	0	1	0.036	999.999	Pass
CA	150,000 miles	Other	PM	0.0006	--	--	--	0	1	0.001	0.008	Pass
CA	150,000 miles	Other	PM-COMP	0.0008	--	--	--	0	1	0.001	0.010	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Test #</b>	<b>SCRX91006110</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	11/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	41630	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<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>	5103	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0151972	--
CO (Carbon Monoxide)	0.3318196	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.0677667	--
DT-EER (Drive Trace Energy Economy Rating)	0.424844	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.2693624	--
MFR FE (Manufacturer Fuel Economy)	14.595973	--
NOX (Nitrogen Oxide)	0.003289	--
N2O (Nitrous Oxide)	0.0023497	--
HC-NM (Non-methane Hydrocarbon)	0.0065254	--
NMOG (Non-methane organic gases)	0.0067211	--
HC-TOTAL (Total Hydrocarbon)	0.0213784	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	593.6035767	--

Manufacturer Test Comments None

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0391TR0		
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 2b Bin 250	CO2	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	METHANE	0.015	--	--	--	0	1	0.02	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	N2O	0.002	--	--	--	0	1	0.00	999.99	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0067	--	--	--	0	1	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0100	--	--	--	--	--	0.010	0.250	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0033	--	--	--	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	0.00	999.99	Pass
CA	150,000 miles	Other	NMOG	0.0067	--	--	--	0	1	0.007	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0100	--	--	--	--	--	0.010	0.250	Pass
CA	150,000 miles	Other	NOX	0.0033	--	--	--	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

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Test #</b>	<b>SCRX91006114</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	11/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	41630	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<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>	5121	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1287.4559326	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	796.6958618	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0187065	--
CO (Carbon Monoxide)	1.3460367	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.419692	--
DT-EER (Drive Trace Energy Economy Rating)	-0.7417969	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.6845996	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0108801	--
N2O (Nitrous Oxide)	0.0027827	--
HC-NM (Non-methane Hydrocarbon)	0.0068256	--
NMOG (Non-methane organic gases)	0.0070304	--
PM (Particulate Matter)	0.0009522	--
HC-TOTAL (Total Hydrocarbon)	0.0251084	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	906.0286255	--

## Manufacturer Test Comments

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

## Certification Summary Information Report

Test Group		VCRXD06.4573			Evaporative/Refueling Family					VCRXF0391TR0		
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 2b Bin 250	CO	1.35	--	--	--	0	1	1.4	999.9	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0070	--	--	--	0	1	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0179	--	--	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0109	--	--	--	0	1	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM	0.0010	--	--	--	0	1	0.001	999.999	Pass
CA	150,000 miles	Other	CO	1.35	--	--	--	0	1	1.4	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0070	--	--	--	0	1	0.007	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0179	--	--	--	--	--	0.018	999.999	Pass
CA	150,000 miles	Other	NOX	0.0109	--	--	--	0	1	0.011	999.999	Pass
CA	150,000 miles	Other	PM	0.0010	--	--	--	0	1	0.001	999.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Test #</b>	<b>SCRX10087762</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	09/14/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	11350	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	CPG		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5030	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.025386	--
CO (Carbon Monoxide)	0.752334	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.131	--
DT-EER (Drive Trace Energy Economy Rating)	-0.11	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.1525	--
MFR FE (Manufacturer Fuel Economy)	9.5	9.5
NOX (Nitrogen Oxide)	0.003747	--
HC-NM (Non-methane Hydrocarbon)	0.004523	--
NMOG (Non-methane organic gases)	0.004659	--
PM (Particulate Matter)	0.0008	--
HC-TOTAL (Total Hydrocarbon)	0.029114	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	919	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	918.21968	--

**Manufacturer Test Comments** 25DA-D06.45V2-1 sc03 @ALVW 150k Auto Fixed cE10

## Certification Summary Information Report

Test Group		VCRXD06.4573				Evaporative/Refueling Family				VCRXF0391TR0		
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 2b Bin 250	CO	0.75	--	--	--	0	1	0.8	999.9	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG	0.0047	--	--	--	0	1	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NMOG+NOX	0.0084	--	--	--	--	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	NOX	0.0037	--	--	--	0	1	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 250	PM	0.0008	--	--	--	0	1	0.001	999.999	Pass
CA	150,000 miles	Other	CO	0.7523	--	--	--	0	1	0.752	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0047	--	--	--	0	1	0.005	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0084	--	--	--	--	--	0.008	999.999	Pass
CA	150,000 miles	Other	NOX	0.0037	--	--	--	0	1	0.004	999.999	Pass
CA	150,000 miles	Other	PM	0.0008	--	--	--	0	1	0.001	999.999	Pass

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0391TR0
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>11327</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	06/08/2024
<b>Fuel Batch Calibration Effective Date</b>	06/08/2024	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	0.828	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.75
<b>Fuel Ethanol Volume Percent (%)</b>	9.7	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17997
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>41630</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline	<b>Fuel Batch Calibration Date</b>	04/24/2024
<b>Fuel Batch Calibration Effective Date</b>	04/24/2024	<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>	0.749
<b>Fuel Ethanol Volume Percent (%)</b>	9.8	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17910
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.826	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>11350</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline	<b>Fuel Batch Calibration Date</b>	08/26/2024
<b>Fuel Batch Calibration Effective Date</b>	08/26/2024	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	0.828	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.752
<b>Fuel Ethanol Volume Percent (%)</b>	9.6	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17966
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0						
<b>Consolidated List of Standards</b>									
<b>Exhaust Standards</b>									
<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert						
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	<b>Standard Level</b>	Federal Tier 3 HD Class 2b Bin 250						
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	California fuel 2-day exhaust (w/can load)						
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CO	--	--	--	0	0	1	0	6.4
150,000 miles	CO-COMP	--	--	--	0	0	1	0	22.0
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	HCHO	--	--	--	0	0	1	0	0.006
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	METHANE-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	N2O-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	1	0	0.800
150,000 miles	NOX	--	--	--	0	0	1	0	999.999
150,000 miles	PM	--	--	--	0	0	1	0	0.008
150,000 miles	PM-COMP	--	--	--	0	0	1	0	0.010
<b>Cert Region</b>				California + CAA Section 177 states	<b>Cert/In-Use Code</b>		Cert		
<b>Vehicle Class</b>				MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>		Other		
<b>Fuel</b>				Gasoline	<b>Test Procedure</b>		US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CO	--	--	--	0	0	1	0	999.9
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	999.999
150,000 miles	NOX	--	--	--	0	0	1	0	999.999
150,000 miles	PM	--	--	--	0	0	1	0	999.999

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>	Other
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	0	0	1	0	6.4
150,000 miles	CO-COMP	--	--	--	0	0	1	0	22.0
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	HCHO	--	--	--	0	0	1	0	0.006
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	METHANE-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	N2O-COMB	--	--	--	0	0	1	0	0.05
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	1	0	0.800
150,000 miles	NOX	--	--	--	0	0	1	0	999.999
150,000 miles	PM	--	--	--	0	0	1	0	0.008
150,000 miles	PM-COMP	--	--	--	0	0	1	0	0.010

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>	Other
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	SC03

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

### Certification Summary Information Report

<b>Test Group</b>		VCRXD06.4573			<b>Evaporative/Refueling Family</b>			VCRXF0391TR0		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			<b>Standard Level</b>			Federal Tier 3 HD Class 2b Bin 250		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		

  

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

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			<b>Standard Level</b>			Federal Tier 3 HD Class 2b Bin 250		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		

  

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NOX	--	--	--	0	0	1	0	999.999

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	<b>Standard Level</b>	Other
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO2	--	--	--	0	0	1	0	999.9
150,000 miles	METHANE	--	--	--	0	0	1	0	999.99
150,000 miles	N2O	--	--	--	0	0	1	0	999.99
150,000 miles	NMOG	--	--	--	0	0	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	0	0.250
150,000 miles	NOX	--	--	--	0	0	1	0	999.999

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	<b>Standard Level</b>	Federal Tier 3 HD Class 2b Bin 250
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	SC03

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

#### Evaporative/Refueling Standards

<b>Evaporative/Refueling Family</b>	VCRXF0391TR0	<b>Cert Region</b>	Federal
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap
<b>Test Procedure</b>	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.030	0.0000

## Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573		<b>Evaporative/Refueling Family</b>	VCRXF0391TR0	
<b>Evaporative/Refueling Family</b>	VCRXF0391TR0		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000
<b>Evaporative/Refueling Family</b>	VCRXF0391TR0		<b>Cert Region</b>	California + CAA Section 177 states	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Other	
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0057
<b>Evaporative/Refueling Family</b>	VCRXF0391TR0		<b>Cert Region</b>	California + CAA Section 177 states	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Other	
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.030	0.0000
<b>Evaporative/Refueling Family</b>	VCRXF0391TR0		<b>Cert Region</b>	California + CAA Section 177 states	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Other	
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0090
<b>Evaporative/Refueling Family</b>	VCRXF0391TR0		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0090
<b>Evaporative/Refueling Family</b>	VCRXF0391TR0		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.600	0.0057

### Certification Summary Information Report

<b>Test Group</b>	VCRXD06.4573	<b>Evaporative/Refueling Family</b>	VCRXF0391TR0		
<b>Evaporative/Refueling Family</b>	VCRXF0391TR0	<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Other		
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

## Certification Summary Information Report

Test Group	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0391TR0
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	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		VCRXD06.4573	Evaporative/Refueling Family		VCRXF0391TR0
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	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0391TR0
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	VCRXD06.4573	Evaporative/Refueling Family	VCRXF0391TR0
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		
<b>Additional Terms and Acronyms</b>			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission



### **Section 8 Emission Testing Waiver Statements and Attestations**

Below is a list clearly identifying the standards applicable to this Test Group for which emission testing was not performed. All FCA US LLC applicable vehicles will conform with the emission standards which emission data is not being provided, as allowed under 40 CFR 86.1829-01 or 86.1810-01.

HCHO

For the remaining list of attestations please see:

"Common Section Book - Section 14. Request for Certification "



## **Section 9 OBD Description**

FCA US LLC considers this information proprietary and confidential. The description contains engineering detail that would allow competitors to gain insight into FCA US LLC OBD system. The OBD system descriptions for all Test Groups are on file with the US EPA and California Air Resources Board.

OBD Agency Approvals are loaded into EV-CIS and E-FILE for each test group.

OBD Demonstration Compliance Statement: This Test Group meets the full intent of both the Clean Air Act as amended in 1990, section 202(m), and the applicable federal OBD regulations contained in 40 CFR §86.005-74 and 40 CFR §86.1806-01, including a reference to those provisions pertaining to deficiencies in the limited instances where an OBD II system that complies with 1968.2 does not comply with all the requirements of section 1968.1.



**Section 10** **Description of Alternate - Fueled Vehicles**

Not Applicable to this Test Group





EPA COMP CODE	AA-1000	AA-1500	AA-2000	AA-2500	AA-3000	AA-3500	AA-4000	AA-4500	AA-5000
Z01:VECI Label									

## Test Group - VCRXD06.4573

<b>EPA COMP CODE</b>	<b>AA-5500</b>	<b>AA-6000</b>	<b>AA-6500</b>
E10:Powertrain Control Module			
E11:Transmission Control Module			
E17:ABS Control Module			
E4D:Low Temperature Coolant Control Valve			
F01:Fuel Tank			
F15:Fuel Tank Filler Tube			
F40:Throttle Body			
F50:Fuel Injector			
F58:Fuel Pump Control Module			
F59:Fuel Pressure Sensor			
F60:Fuel Rail Assembly			
F70:Evap. Canister Assembly			
F79:ESIM (Evaporative System Integrity Monitor)			
H10:Catalytic Converter			
I05:Spark Plug			
I10:Ignition Coil			
L01:Heated Oxygen Sensor			

<b>EPA COMP CODE</b>	<b>AA-5500</b>	<b>AA-6000</b>	<b>AA-6500</b>
L07:Multiple Displacement System Solenoid			
L12:Accelerator Pedal Position Sensor			
L15:Camshaft Position Sensor			
L16:Crankshaft Position Sensor			
L20:Knock Sensor			
L28:ABS Speed Sensor			
M02:Charge Air Temperature Sensor			
M04:Intake Air Temperature Sensor			
M07:Oil Temperature Sensor			
M08:Charge Air Pressure Sensor			
M10:Ambient Temperature Sensor			
M11:EGR Temperature Sensor			
N17:Crankshaft Target Wheel			
N34:Secondary Runner Valve Actuator			
N50:Engine Thermostat			
N56:EGR Valve			
N57:EGR Cooler			
N91:Evaporative Canister to Tank Hose			
V05:MAP Sensor			
V63:Evap. Can. Purge Solenoid			

EPA COMP CODE	AA-5500	AA-6000	AA-6500
Z01:VECI Label			

Section11-100 Engine Parts List

# FCA US LLC

**Test Group :** VCRXD06.4573

**Durability Group:** VCRXGPGNNF38 **Standard Fed:** HDV2 Bin250+ **Cal:** N/A

Trans. Code	Sales Code	Transfer Case Sales Code/Drive Code	No. of Gears	Over Drive Gear Ratio	Drive Gear Ratio	Engine Sales Code	Torque Code	Torque Size	Conv Clutch Control Type Calib/Special Features
L8	DFX	2R	8	.67	4.71,3.14,2.10,1.67,1.26,1,.84,.67	ESL	N/A		Electronically shifted data on file
L8	DFX	DH1 / 4P DH3 / 4P DK1 / 4P DK3 / 4P	8	.67	4.71,3.14,2.10,1.67,1.26,1,.84,.67	ESL	N/A		Electronically shifted data on file

Section12-200 Transmission

FCA US LLC

VCRXD06.4573

Durability Group:  
VCRXGPGNNF38

Standard Fed: HDV2 Bin250+ Cal: N/A

Asterisk (\*) Indicates Manufacturer has elected to certify at this higher test weight class as allowed by CFR 86.1831-01

Engine Code AA-1000 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0213TR0-31.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ2A91	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		10000	8000	9000	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.25	36.6	50.50000	0.987200	0.069790	55.55000	1.085900	0.076770
							3863	4809	3.73	28.7	LT245/70R17E TWD	TZF	02071T	15.19	36.7	53.86000	0.904300	0.070530	59.25000	0.994700	0.077580
							7695	8848	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.84	37.6	57.04000	1.032400	0.069280	62.74000	1.135600	0.076210
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.75	37.8	58.24000	1.033500	0.069440	64.06000	1.136800	0.076380	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.76	37.8	59.15000	0.976400	0.070210	65.06000	1.074000	0.077230	
DJ2A91	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		9900	8000	9000	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.25	36.6	50.50000	0.987200	0.069790	55.55000	1.085900	0.076770
							3954	4804	3.73	28.7	LT245/70R17E TWD	TZF	02071T	15.19	36.7	53.86000	0.904300	0.070530	59.25000	0.994700	0.077580
							7692	8796	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.84	37.6	57.04000	1.032400	0.069280	62.74000	1.135600	0.076210
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.75	37.8	58.24000	1.033500	0.069440	64.06000	1.136800	0.076380	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.76	37.8	59.15000	0.976400	0.070210	65.06000	1.074000	0.077230	

Engine Code AA-1500 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0213TR0-31.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ7A91	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P		10000	8000	9000	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.12	36.9	49.79000	1.023800	0.070310	54.77000	1.126200	0.077340
							3880	4684	3.73	28.7	LT245/70R17E TWD	TZF	02071T	15.01	37.2	54.03000	0.946600	0.070990	59.43000	1.041300	0.078090
							7869	8935	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.67	38.0	57.16000	1.074500	0.069740	62.88000	1.182000	0.076710
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.56	38.3	58.63000	1.076700	0.069900	64.49000	1.184400	0.076890	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.58	38.3	59.30000	1.018600	0.070670	65.23000	1.120500	0.077740	
DJ7A91	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P		9900	8500	9000	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.12	36.9	49.79000	1.023800	0.070310	54.77000	1.126200	0.077340
							3972	4681	3.73	28.7	LT245/70R17E TWD	TZF	02071T	15.01	37.2	54.03000	0.946600	0.070990	59.43000	1.041300	0.078090
							7966	8933	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.67	38.0	57.16000	1.074500	0.069740	62.88000	1.182000	0.076710
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.56	38.3	58.63000	1.076700	0.069900	64.49000	1.184400	0.076890	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.58	38.3	59.30000	1.018600	0.070670	65.23000	1.120500	0.077740	

Engine Code AA-2000 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0213TR0-32.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ2A62	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		10000	7500	8500	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	14.67	35.9	46.33000	0.971900	0.069790	50.96000	1.069100	0.076770
							3457	4677	3.73	28.7	LT245/70R17E TWD	TZF	02071T	14.55	36.2	50.58000	0.903000	0.070430	55.64000	0.990300	0.077470
							7086	8543	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.21	37.1	53.79000	1.022100	0.069240	59.17000	1.124300	0.076160
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.12	37.3	55.19000	1.024100	0.069400	60.71000	1.126500	0.076340	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.13	37.3	55.82000	0.968900	0.070130	61.40000	1.065800	0.077140	
DJ2A92	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		10000	8000	9000	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.31	36.4	49.62000	0.981600	0.069850	54.58000	1.079800	0.076840
							3708	4583	3.73	28.7	LT245/70R17E TWD	TZF	02071T	15.19	36.7	53.84000	0.904300	0.070530	59.22000	0.994700	0.077580
							7625	8813	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.85	37.6	56.97000	1.032200	0.069280	62.67000	1.135400	0.076210
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.74	37.8	58.45000	1.034400	0.069440	64.30000	1.137800	0.076380	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.76	37.8	59.12000	0.976300	0.070210	65.03000	1.073900	0.077230	
DJ2A62	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		9900	7500	8500	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	14.67	35.9	46.33000	0.971900	0.069790	50.96000	1.069100	0.076770
							3557	4688	3.73	28.7	LT245/70R17E TWD	TZF	02071T	14.55	36.2	50.58000	0.903000	0.070430	55.64000	0.990300	0.077470
							7199	8550	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.21	37.1	53.79000	1.022100	0.069240	59.17000	1.124300	0.076160
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.12	37.3	55.19000	1.024100	0.069400	60.71000	1.126500	0.076340	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.13	37.3	55.82000	0.968900	0.070130	61.40000	1.065800	0.077140	
DJ2A92	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		9900	8000	9000	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.31	36.4	49.62000	0.981600	0.069850	54.58000	1.079800	0.076840
							3776	4568	3.73	28.7	LT245/70R17E TWD	TZF	02071T	15.19	36.7	53.84000	0.904300	0.070530	59.22000	0.994700	0.077580
							7650	8775	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.85	37.6	56.97000	1.032200	0.069280	62.67000	1.135400	0.076210
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.74	37.8	58.45000	1.034400	0.069440	64.30000	1.137800	0.076380	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.76	37.8	59.12000	0.976300	0.070210	65.03000	1.073900	0.077230	

Engine Code AA-2500 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0213TR0-32.0

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ7A62	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P		10000	8000	9000*	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.13	36.9	49.61000	1.028200	0.070240	54.57000	1.131000	0.077260
							3536	4572	3.73	28.7	LT245/70R17E TWD	TZF	02071T	14.99	37.2	54.36000	0.947200	0.070980	59.80000	1.041900	0.078080
							7469	8735	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.67	38.0	56.99000	1.078900	0.069670	62.69000	1.186800	0.076640
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.61	38.2	58.87000	1.020600	0.070590	64.76000	1.122700	0.077650	
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.58	38.3	58.39000	1.077900	0.069860	64.23000	1.185700	0.076850	
DJ7A92	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P		10000	8500	9000	3.73	26.3	LT275/70R18 TCM	TZN	CRDDF2A	15.12	36.9	49.84000	1.024000	0.070310	54.82000	1.126400	0.077340
							3784	4467	3.73	28.7	LT245/70R17E TWD	TZF	02071T	15.01	37.2	54.04000	0.946700	0.070990	59.44000	1.041400	0.078090
							7997	8999	3.73	26.4	LT275/70R18E TCN	TZF	EJ487Q	14.66	38.0	57.19000	1.074600	0.069740	62.91000	1.182100	0.076710
								3.73	26.4	LT275/70R18E TCP	TZF	EJ496Q	14.56	38.3	58.69000	1.076900	0.069900	64.56000	1.184600	0.076890	
								3.73	26.2	LT285/60R20E TEA	TZF	EJ642Q	14.58	38.3	59.34000	1.018800	0.070670	65.27000	1.120700	0.077740	



	Chassis 4X4				DH1-4P DH3-4P DK1-4P DK3-4P				4.10 4.10	29 28.8	LT275/70R18E TCP LT285/60R20E TEA	TZF TZF	EJ496Q EJ642Q	14.56 14.58	38.3 38.3	58.69000 59.34000	1.076900 1.018800	0.069900 0.070670	64.56000 65.27000	1.184600 1.120700	0.076890 0.077740
DJ7A62	RAM: 2500 Cab Chassis 4X4		XBC		L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P	9900	8000 3683 7563	9000* 4.10 4.10 4.10	28.9 31.5 29 28.8	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ642Q EJ496Q	15.13 14.99 14.67 14.61 14.58	36.9 37.2 38.0 38.2 38.3	49.61000 54.36000 56.99000 58.67000 58.39000	1.028200 0.947200 1.078900 1.020600 1.077900	0.070240 0.070980 0.069670 0.070590 0.069860	54.57000 59.80000 62.69000 64.76000 64.23000	1.131000 1.041900 1.186800 1.122700 1.185700	0.077260 0.078080 0.076640 0.077650 0.076850	
DJ7A92	RAM: 2500 Cab Chassis 4X4		XBC		L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P	9900	8500 3915 8202	9000 4.10 4.10 4.10	28.9 31.5 29 28.8	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.12 15.01 14.66 14.56 14.58	36.9 37.2 38.0 38.3 38.3	49.84000 54.04000 57.19000 58.69000 59.34000	1.024000 0.946700 1.074600 1.076900 1.018800	0.070310 0.070990 0.069940 0.069900 0.070670	54.82000 59.44000 62.91000 64.56000 65.27000	1.126400 1.041400 1.182100 1.184600 1.120700	0.077340 0.078090 0.076710 0.076890 0.077740	

**Engine Code AA-5000 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0391TR0-50.0**

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr. Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ2A92	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		10000	8000 3708 7625	9000 3.73 3.73 3.73	26.3 28.7 26.4 26.2	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.31 15.19 14.85 14.74 14.76	36.4 36.7 37.6 37.8 37.8	49.62000 53.84000 56.97000 58.45000 59.12000	0.981600 0.904300 1.032200 1.034400 0.976300	0.069850 0.070530 0.069280 0.069440 0.070210	54.58000 59.22000 62.67000 64.30000 65.03000	1.079800 0.994700 1.135400 1.137800 1.073900	0.076840 0.077580 0.076210 0.076380 0.077230	
DJ2A92	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		9900	8000 3776 7650	9000 3.73 3.73 3.73	26.3 28.7 26.4 26.2	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.31 15.19 14.85 14.74 14.76	36.4 36.7 37.6 37.8 37.8	49.62000 53.84000 56.97000 58.45000 59.12000	0.981600 0.904300 1.032200 1.034400 0.976300	0.069850 0.070530 0.069280 0.069440 0.070210	54.58000 59.22000 62.67000 64.30000 65.03000	1.079800 0.994700 1.135400 1.137800 1.073900	0.076840 0.077580 0.076210 0.076380 0.077230	

**Engine Code AA-5500 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0391TR0-50.0**

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr. Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ7A92	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P		10000	8500 3784 7997	9000 3.73 3.73 3.73	26.3 28.7 26.4 26.2	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.12 15.01 14.66 14.56 14.58	36.9 37.2 38.0 38.3 38.3	49.84000 54.04000 57.19000 58.69000 59.34000	1.024000 0.946700 1.074600 1.076900 1.018800	0.070310 0.070990 0.069740 0.069900 0.070670	54.82000 59.44000 62.91000 64.56000 65.27000	1.126400 1.041400 1.182100 1.184600 1.120700	0.077340 0.078090 0.076710 0.076890 0.077740	
DJ7A92	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P		9900	8500 3915 8202	9000 3.73 3.73 3.73	26.3 28.7 26.4 26.2	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.12 15.01 14.66 14.56 14.58	36.9 37.2 38.0 38.3 38.3	49.84000 54.04000 57.19000 58.69000 59.34000	1.024000 0.946700 1.074600 1.076900 1.018800	0.070310 0.070990 0.069740 0.069900 0.070670	54.82000 59.44000 62.91000 64.56000 65.27000	1.126400 1.041400 1.182100 1.184600 1.120700	0.077340 0.078090 0.076710 0.076890 0.077740	

**Engine Code AA-6000 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0391TR0-50.0**

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr. Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ2A92	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		10000	8000 3708 7625	9000 4.10 4.10 4.10	28.9 31.5 29 28.8	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.31 15.19 14.85 14.74 14.76	36.4 36.7 37.6 37.8 37.8	49.62000 53.84000 56.97000 58.45000 59.12000	0.981600 0.904300 1.032200 1.034400 0.976300	0.069850 0.070530 0.069280 0.069440 0.070210	54.58000 59.22000 62.67000 64.30000 65.03000	1.079800 0.994700 1.135400 1.137800 1.073900	0.076840 0.077580 0.076210 0.076380 0.077230	
DJ2A92	RAM: 2500 Cab Chassis 4X2		XBC	L8 - RWD DFX		9900	8000 3776 7650	9000 4.10 4.10 4.10	28.9 31.5 29 28.8	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.31 15.19 14.85 14.74 14.76	36.4 36.7 37.6 37.8 37.8	49.62000 53.84000 56.97000 58.45000 59.12000	0.981600 0.904300 1.032200 1.034400 0.976300	0.069850 0.070530 0.069280 0.069440 0.070210	54.58000 59.22000 62.67000 64.30000 65.03000	1.079800 0.994700 1.135400 1.137800 1.073900	0.076840 0.077580 0.076210 0.076380 0.077230	

**Engine Code AA-6500 Eng Displ: 6.4L (ESL) Evap Family - Evap Code: VCRXF0391TR0-50.0**

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr. Case	Torq. Conv./ Catalyst Identifier	GVW	LWV TWC Drive Curb	ALWV TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr. Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
DJ7A92	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P		10000	8500 3784 7997	9000 4.10 4.10 4.10	28.9 31.5 29 28.8	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.12 15.01 14.66 14.56 14.58	36.9 37.2 38.0 38.3 38.3	49.84000 54.04000 57.19000 58.69000 59.34000	1.024000 0.946700 1.074600 1.076900 1.018800	0.070310 0.070990 0.069740 0.069900 0.070670	54.82000 59.44000 62.91000 64.56000 65.27000	1.126400 1.041400 1.182100 1.184600 1.120700	0.077340 0.078090 0.076710 0.076890 0.077740	
DJ7A92	RAM: 2500 Cab Chassis 4X4		XBC	L8 - 4WD DFX / DH1-4P DH3-4P DK1-4P DK3-4P		9900	8500 3915 8202	9000 4.10 4.10 4.10	28.9 31.5 29 28.8	LT275/70R18 TCM LT245/70R17E TWD LT275/70R18E TCN LT285/60R20E TEA	TZN TZF TZF TZF	CRDDF2A 02071T EJ487Q EJ496Q EJ642Q	15.12 15.01 14.66 14.56 14.58	36.9 37.2 38.0 38.3 38.3	49.84000 54.04000 57.19000 58.69000 59.34000	1.024000 0.946700 1.074600 1.076900 1.018800	0.070310 0.070990 0.069740 0.069900 0.070670	54.82000 59.44000 62.91000 64.56000 65.27000	1.126400 1.041400 1.182100 1.184600 1.120700	0.077340 0.078090 0.076710 0.076890 0.077740	

## FCA US LLC

### Test Group: VCRXD06.4573 - Engine Code Index

**Durability Group: VCRXGPGNNF38 Standard : HDV2 Bin250+ / NA Vehicle Class: HDV1 / N/A**

#### Engine Code: AA-1000 - DJ2A91 ESL DFX L8 RWD XBC 31.0 GAL. 3.73

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-1000	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8000	RWD	NAS

#### Engine Code: AA-1500 - DJ7A91 ESL DFX L8 4WD XBC 31.0 GAL 3.73

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-1500	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8500	4WD	NAS

#### Engine Code: AA-2000 - DJ2A6292 ESL DFX L8 RWD XBC 32.0 GAL. 3.73

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-2000	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	7500	8000	RWD	NAS

#### Engine Code: AA-2500 - DJ7A6292 ESL DFX L8 4WD XBC 32.0 GAL. 3.73

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-2500	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8500	4WD	NAS

#### Engine Code: AA-3000 - DJ2A91 ESL DFX L8 RWD XBC 31.0 GAL. 4.10

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-3000	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8000	RWD	NAS

#### Engine Code: AA-3500 - DJ7A91 ESL DFX L8 4WD XBC 31.0 GAL. 4.10

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-3500	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8500	4WD	NAS

#### Engine Code: AA-4000 - DJ2A6292 ESL DFX L8 RWD XBC 32.0 GAL. 4.10

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-4000	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	7500	8000	RWD	NAS

**Engine Code: AA-4500 - DJ7A6292 ESL DFX L8 4WD XBC 32.0 GAL. 4.10**

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-4500	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8500	4WD	NAS

**Engine Code: AA-5000 - DJ2A92 ESL DFX L8 RWD XBC 50 GAL 3.73**

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-5000	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8000	RWD	NAS

**Engine Code: AA-5500 - DJ7A92 ESL DFX L8 4WD XBC 50 GAL 3.73**

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-5500	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8500	8500	4WD	NAS

**Engine Code: AA-6000 - DJ2A92 ESL DFX L8 RWD XBC 50 GAL. 4.10**

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-6000	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8000	8000	RWD	NAS

**Engine Code: AA-6500 - DJ7A92 ESL DFX L8 4WD XBC 50 GAL 4.10**

Engine Code	RC/FF #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max.	Drive Code	Sales Areas
AA-6500	Original		6.4L/ESL	DJ		L8/ Automatic L8 - Lockup/Automatic/8-speed	10000	9900	8500	8500	4WD	NAS

**Test Group: VCRXD06.4573 - No Engine Code Changes**

**Durability Group: VCRXGPGNNF38 Standard Fed: HDV2 Bin250 Cal: N/A**

RC/FF #	Submission Date	Description
---------	-----------------	-------------

No Results Found

Section12-500 Engine Code Index



## Section 12 Vehicle Parameters

Valves per cylinder                      Engine  
6.4 Liters - 2

### Test Parameters

SIL usage:                                      All - None

Cooling fan configuration:                Models  
All - One fan center front (See Section 12 - 601)

Additional Cooling:                         Models  
All - None

Evaporative Testing Parameters:        Model  
DJ Box Off - 219 grams  
DJ Box Off - 394 grams

Fuel temperature Profile:                 Models  
All Vehicles - eDJ

Special Test Procedure:                    Models  
All - none

# FAN POSITION DIAGRAM

All vehicles in Test Group



Test Type	Fan Type	Fan Position	Hood Position
EPA75. HWFE US06 CCO	Road Speed Fan (RSF) (meeting requirements of 40CFR1066.105(c)(2) – speed and uniformity requirements)	Position RSF horizontally 12" from front of vehicle, centered in front of vehicle. Position RSF vertically so centerline of fan is centered with vehicle grill.	CLOSED
SC03	Road Speed Fan (meeting requirements of 40CFR1066.105(c)(5) – 45 m <sup>3</sup> /s at 60 mph)	24-36 inches from bumper/front of vehicle (facility dependent)	CLOSED



March 23, 2026

Mr. Joel Dalton  
Certification and Compliance Division  
U.S. Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, Michigan 48105

Dear Mr. Dalton:

**Re: 2027 Model Year HDV Certificate of Conformity Request**

FCA US LLC requests a 2027 MY Certificate of Conformity for the 6.4L Tier 3 Federal and 50 State test group VCRXD06.4573 with evaporative families: VCRXF0213TR0 and VCRXF0391TR0. This test group is being certified to Tier 3 BIN 250 standards. FCA US LLC agrees to meet the Tier 3 BIN 250 standards, and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXD06.4573. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f)(1). The FTP emission standards for this HDV test group are as follows:

<u>Emission Standards</u>		<u>City/Hwy NMOG+NOx</u>	<u>CO</u>	<u>HCHO</u>	<u>PM</u>	
Tier 3 BIN 250	150K	0.250	6.4	0.006	0.008	
<u>Evaporative Standards</u>		<u>3-Day</u>	<u>2-Day</u>	<u>R/L</u>	<u>ORVR</u>	<u>Canister Bleed</u>
VCRXF0213TR0	150K	.6	.6	0.05	N/A	0.03
VCRXF0391TR0	150K	.6	.6	0.05	N/A	0.03

Initial combined CO2 for VCRXD06.4573 test group is = 709.7

The models in this test group are as follows:

**Division / Model**  
RAM 2500 Chassis Cab, 4WD/RWD

If there are any questions regarding this submission, please contact Alec Soulliere at 248.285.8432 or Gary J. Arvan at 248.221.9461.

Sincerely,  
FCA US LLC

Gary J. Arvan, Director  
Vehicle Safety & Environmental Homologation Programs  
gja/ags



March 23, 2026

Ms. Robin U. Lang, Chief  
Emissions Certification and Compliance Division  
Air Resources Board  
4001 Iowa Ave,  
Riverside, CA 92507

Dear Ms. Lang:

**Re: 2027 Model Year HDV Executive Order Request**

FCA US LLC requests a 2027 MY Executive Order for the 6.4L 50 State test group VCRXD06.4573 with evaporative families: VCRXF0213TR0 and VCRXF0391TR0. This test group is being certified according to an alternate certification path provided in MAC ECCD-2025-08. FCA requests an EO based on the EPA Tier 3 requirements as reflected in the enclosed EPA Certificates of Conformity and EPA Certification Summary Information.

FCA US LLC agrees to meet the Tier 3 BIN 250 emission standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXD06.4573. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f)(1). The FTP emission standards for this HDV test group are as follows:

<u>Emission Standards</u>		<u>City/Hwy</u> <u>NMOG+NOx</u>	<u>CO</u>	<u>HCHO</u>	<u>PM</u>	
Tier 3 BIN 250	150K	0.250	6.4	0.006	0.008	
<u>Evaporative Standards</u>		<u>3-Day</u>	<u>2-Day</u>	<u>R/L</u>	<u>ORVR</u>	<u>Canister Bleed</u>
VCRXF0213TR0	150K	.6	.6	0.05	N/A	0.03
VCRXF0391TR0	150K	.6	.6	0.05	N/A	0.03

Initial combined CO2 for VCRXD06.4573 test group is = 709.7

FCA also completed an E-CERT submission for this test group at the direction of CARB. CARB's E-CERT system requires the selection of a California emission standard at the time of submission. FCA selected the LEV III standard for this reason only and not as an acknowledgement of CARB's authority to require compliance with the underlying standards.

If there are any questions regarding this submission, please contact Alec Soulliere at 248.285.8432 or Gary J. Arvan at 248.221.9461.

Sincerely,

FCA US LLC

Gary J. Arvan, Director  
Vehicle Safety & Environmental Homologation Programs

c: J. Nguyen  
gja/ags

# US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

## General Information

**Date:** 02/05/2026

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

CRX

Manufacturer Name \*

FCA US LLC

Contact Name \*

Pamela J Barylski

Contact Email Address \*

pamela.barylski@stellantis.com

Contact Phone \*

8102798571

Calendar Year complete application submitted to EPA \*

2026

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

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

Engine Family / Evaporative Family / Test Group \*

VCRXD06.4573

### Certificate Request Type (Industry Sector Code)

Certificate Request Type \*

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? \*

No

### Payment Information

Amount Owed

\$32,317.00

Payment Type \*

Offline Wire

Comments

EPA Form Number 3520-29

OMB Control No.2060-0545

Approval expires 7/31/2027

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

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).

MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY

CARB USE ONLY

Invoice Name	MSF250698
Invoice Date	Jan 15, 2026

COMPANY INFORMATION

Company Name	FCA US LLC
Address	800 Chrysler Drive
City	Auburn Hills
State	MI
Zip	48326
Country	United States
Contact Name	Gary Arvan
Contact Telephone Number	248-221-9461
Contact Email	gary.arvan@stellantis.com
CARB Customer Number	CCAM000028

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	CBI_VCRXD00.0517_APPIPT	Model Year 2027	VCRXD00.0517	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
2	CBI_VCRXT02.0571_APPIPT	Model Year 2027	VCRXT02.0571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
3	CBI_VCRXT02.0572_APPIPT1	Model Year 2027	VCRXT02.0572	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
4	CBI_VCRXV03.0574_APPIPT	Model Year 2027	VCRXV03.0574	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
5	CBI_VCRXT03.0572_APPIPT	Model Year 2027	VCRXT03.0572	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
6	CBI_VCRXT03.0573_APPIPT	Model Year 2027	VCRXT03.0573	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
7	CBI_VCRXT03.6561_APPIPT	Model Year 2027	VCRXT03.6561	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
8	CBI_VCRXT03.6543_APPIPT	Model Year 2027	VCRXT03.6543	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
9	CBI_VCRXD03.6576_APPIPT	Model Year 2027	VCRXD03.6576	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00

10	CBI_VCRXD03.6575_APPIPT	Model Year 2027	VCRXD03.6575	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
11	CBI_VCRXT05.7560_APPIPT	Model Year 2027	VCRXT05.7560	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
12	CBI_VCRXT05.7571_APPIPT	Model Year 2027	VCRXT05.7571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
13	CBI_VCRXT06.2570_APPIPT	Model Year 2027	VCRXT06.2570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
14	CBI_VCRXT06.2571_APPIPT	Model Year 2027	VCRXT06.2571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
15	CBI_VCRXT06.4570_APPIPT	Model Year 2027	VCRXT06.4570	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
16	CBI_VCRXT06.4571_APPIPT	Model Year 2027	VCRXT06.4571	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
17	CBI_VCRXD06.4572_APPIPT	Model Year 2027	VCRXD06.4572	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
18	CBI_VCRXD06.4573_APPIPT	Model Year 2027	VCRXD06.4573	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
19	CBI_VCRXD06.4574_APPIPT	Model Year 2027	VCRXD06.4574	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
20	CBI_VCRXD06.4575_APPIPT	Model Year 2027	VCRXD06.4575	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
21	CBI_TCRXT03.6565_APPIPT	Model Year 2026	TCRXT03.6565	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00

<b>Total Due</b>	<b>\$ 1,016,895.00</b>
------------------	------------------------

I, Gary Anwar (Jan 15, 2026 11:23:45 EST), attest that any information provided is true, accurate, and complete.  
 (Responsible Party Signature Here)

## PAM BARYLSKI

---

**From:** noreply@salesforce.com on behalf of California Air <mscertfees@arb.ca.gov>  
**Sent:** Friday, January 30, 2026 10:37 AM  
**To:** PAM BARYLSKI  
**Subject:** [EXTERNAL]MS Fee Payment Confirmation for Invoice MSF250698  
**Attachments:** MSF250698 - signed.pdf

**EXTERNAL:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Gary Arvan

Attached is documentation for your MS Fee payment for Invoice Name MSF250698. Please include a copy of this invoice and email with each application that is listed when submitting your application to the applicable MS Fee program.

1. Payment ID – 25RA0274
2. Date of Payment – 1/29/2026
3. Payment Status - Paid





## 2027 50-State (NAS) DJ Box Off

Test Group: VCRXD06.4573

**FCA US LLC**

**VEHICLE EMISSION CONTROL INFORMATION**

CONFORMS TO REGULATIONS: 2027 MY INCOMPLETE  
NO ADJUSTMENTS NEEDED

U.S. EPA: T3 B250 HDV OBD: CA OBD II FUEL: GASOLINE

CA: N/A OBD: N/A FUEL: N/A  
THIS VEHICLE CONFORMS TO FEDERAL REGULATIONS  
AND IS CERTIFIED FOR SALE IN CALIFORNIA

COMPLETED VEHICLE MAXIMUMS: GVWR: 10,000 # MAX. CURB W: 8,500 # MAX. FRONTAL AREA: 58 sq/ft MAX.  
WEIGHT LIMITS REFER TO EMISSION CERTIFICATION ONLY. DO NOT EXCEED VEHICLE GVWR (SEE OWNER'S MANUAL).

GROUP: VCRXD06.4573

ENGINE: 6.4L EVAP: VCRXF0213TR0 31, 32 gal  
VCRXF0391TR0 50 gal

EGR / EGRC  
HO2S  
SFI / TWC  
WR - HO2S

**68778 014AA**



VECI label is located on the vehicle per 40 CFR 86.1807-01.

VCRXD06.4573 Part 1 Section 15 - 100 (2027)