FIAT CHRYSLER AUTOMOBILES

Application for Certification
Part 1

2027 ModelYear

Durability Group: VCRXGPGNNF01
Evaporative Family: VCRXR0110PR3

Test Group: VCRXT02.0574

Four Stroke, Otto Cycle, Gasoline Fueled, Direct FI

Ceramic Monolith Pd, Rh Close Coupled Catalyst

2.0 Liter inline-4
LDT2
Applicable Standards:
50 State - Tier 4i BIN 30

Vehicles Covered:
Jeep/Compass, 4WD

Vehicle(s) Run:
VID 1 config., Vehicle ID L3GGE4700 (Exh.)
VID 2 config., Vehicle ID L3MPJ2067 (Evap)

For Questions, Kevin Wright 248-946-2561 Gary J. Arvan 248.221.9461
All testing completed – Unconditional Cert request

FIAT CHRYSLER AUTOMOBILES

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Section 1 Correspondence and Communication

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

Name	Gary J. Arvan	Kevin Wright
Title	Director	Certification Engineer
Responsibility	Vehicle Safety & Environmental Homologation Programs	Application Submission
Phone	248.221.9461	248-946-2561
E-mail	gary.arvan@stellantis.com	kevin.wright@stellantis.com
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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: VCRXGPGNNF01

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): VCRXR0110PR3

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: VCRXGPGNNF01

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: VCRXR0110PR3

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

FIAT CHRYSLER AUTOMOBILES

Section 5 Test Group Description

Test Group Name:	VCRXT02.0574
Engine displacements covered:	2.0L
Arrangement and number of cylinders:	inline-4
Vehicle class(es) covered:	LDT2
Emission standards class:	BIN 30
AB71 Qualified Vehicles:	No

Certification Summary Information Report

Manufacturer	FCA US LLC	**Manufacturer Code**	CRX
Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	06/17/2026 01:52:22 PM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	**Running Change Reference Number**	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition Direct fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	--
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	--
Fuel Cell Indicator	--	**EPA Vehicle Class**	LDT2
Federal Clean Fuel Vehicle	Yes	**Federal Clean Fuel Vehicle Standard**	LEV
Federal Clean Fuel Vehicle ILEV	No	**California Partial Zero Emissions Vehicle Indicator**	No
Durability Group Name	VCRXGPGNNF01	**Durability Group Equivalency Factor**	1.0
Reduced Fee Test Group	No	**Certification Region Code(s)**	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	**CAP2000 Conditional Certificate?**	N/A
Independent Commercial Importer?	--	**Alternative Fuel Converter Certificate?**	--
SFTP Federal Composite Compliance Identifier	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VCRXT02.0574
Test Group OBD Compliance Level	Partial - with deficiencies and penalty	**Number of Test Group OBD Deficiencies**	3
OBD Deficiencies Comments	SAE J1979-2 Implementation, Adaptive Cruise Control and Parallel Park Systems Default Action, Vehicle Operation Tracking Lifetime Counters Implementation		
Mfr Test Group Comments	T4iBIN30 E10 - City Litmus Value: 20.8; City Litmus Threshold: 20.0; Hwy Litmus Value: 28.2; Hwy Litmus Threshold: 27.0		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Evaporative/Refueling Family Information

Evaporative Summary Information Type	New	**Submission/Correction Date**	06/15/2026 09:28:42 AM
Integrated ORVR?	Yes	**Fuel(s)**	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	**Fuel Tank Material Description**	hdpe/co-ex
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	**Air Intake System Vapor Storage Device Description**	--
Fuel System Vapor Storage Canister?	Yes	**Other Vapor Storage**	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	107	**Number of Primary Canisters**	1
Number of Bleed Canisters	0	**Bleed Canister Total Working Capacity (grams)**	0
Mfr Evaporative/Refueling Family Comments	--		

Leak Family Details

Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	**Applicability of Evaporative Canister Bleed Test**	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	**Applicability of CARB Fuel Only (Rig) Test**	--
CARB Fuel Only (Rig) Test Comments	--		

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VCRXR0110PR3-LF1	50 State	0.02	--

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
FCA US LLC	5 - Jeep	545 - Compass 4X4	Federal	All Wheel Drive	Automatic	8	Yes
FCA US LLC	5 - Jeep	545 - Compass 4X4	California + CAA Section 177 states	All Wheel Drive	Automatic	8	Yes

Engine Description

Hybrid Type	--	**Hybrid Description**	--
Engine Type	4-Stroke Spark Ignition	**Mfr Engine Description**	--
Engine Block Arrangement	Inline	**Mfr Engine Block Arrangement Description**	--
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	0W-30
Number of Cylinders/Rotors	4	**Mechanically Variable Compression Ratio Indicator**	N

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Rhodium	Ceramic	Monolith
3	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith

Mfr After Treatment Device (ATD) Comments	THREE WAY CATALYST
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Engine Configuration Number 1

Engine Displacement (liters)	2.0	**Engine Rated Horsepower**	200
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Turbocharged	**Number of Air Aspiration Devices**	1
Air Aspiration Device Configuration	Single	**Charge Air Cooler Type**	Air
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	electro-hydraulic control		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	1	**Number of Air/Fuel Sensors**	2
Air/Fuel Sensor # 1 Type	Heated air fuel	**Air/Fuel Sensor # 1 Description**	--
Air/Fuel Sensor # 2 Type	Heated oxygen	**Air/Fuel Sensor # 2 Description**	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	**Cooled Exhaust Gas Recirculation**	Yes
EGR Type	Electronic/Electric	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	--		

Official Test Numbers

Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	PCRX10076764	PCRX10076766	PCRX10076767	PCRX10076770	PCRX10076765	24.4	228.2	36.7	286.1	1.0

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Gasoline	PCRX10076764	PCRX10076766	PCRX10076767

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Emission Data Vehicle Information

Vehicle ID / Configuration	L3GGE4700 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PCRXT02.05P1	**Original Evaporative/Refueling Family**	PCRXR0115PP3
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	Alfa Romeo	**Represented Test Vehicle Model**	Tonale AWD

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-0200	**Rated Horsepower**	270
Displacement (liters)	2		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	1	**Air Aspiration Device Configuration**	Single
Charge Air Cooler Type	Air	**Drive Mode While Testing**	2-Wheel Drive, Front
Shift Indicator Light Usage	Equipped, not shifted by SIL	**Aged Emission Components**	150,000 (mi)
Curb Weight (lbs)	3718	**Equivalent Test Weight (pounds)**	4000
GVWR (lbs)	4960	**N/V Ratio**	22.6
Axle Ratio	1.79		
Transmission Type	Automatic	**# of Transmission Gears**	9
Transmission Lockup	Yes	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VCRXT02.0574	Evaporative/Refueling Family	VCRXR0110PR3

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	27.75	0.3089	0.0239	8.72	0.0641	0.02436	13.7
Cold CO	30.52	0.3398	0.02629	6.55	0.0507	0.02658	N/A
US06	27.75	0.3089	0.0239	8.72	0.0641	0.02436	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments callout: 23DA-T02.05P1-1

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076764**	**Test Procedure**	**25 - California fuel 2-day exhaust (w/can load)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/08/2022	**Fuel**	Gasoline
Fuel Batch ID	11117	**Fuel Calibration Number**	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4239	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	360.59	--
FE BAG 1 (Bag 1 Fuel Economy)	23.96	23.96
CO2 BAG 2 (Bag 2 Carbon Dioxide)	330.7	--
FE BAG 2 (Bag 2 Fuel Economy)	26.22	26.22
CO2 BAG 3 (Bag 3 Carbon Dioxide)	303.03	--
FE BAG 3 (Bag 3 Fuel Economy)	28.61	28.61
METHANE (CH4 - Methane)	0.011783	--
CO (Carbon Monoxide)	0.213238	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.943	--
DT-EER (Drive Trace Energy Economy Rating)	-0.589	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.297	--
MFR FE (Manufacturer Fuel Economy)	26.4	26.4
NOX (Nitrogen Oxide)	0.010533	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.010517	--
NMOG (Non-methane organic gases)	0.011566	--
PM (Particulate Matter)	0.000599	--
HC-TOTAL (Total Hydrocarbon)	0.021453	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	329	999

Certification Summary Information Report

Test Group VCRXT02.0574 **Evaporative/Refueling Family** VCRXR0110PR3

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	329.30085	--

Manufacturer Test Comments 23DA-T02.05P1-1 city 150k Auto ESSon WLTP cE10

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.21	--	--	--	0	1	0.2	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.30	--	--	--	0	1	0.3	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0118	--	--	--	0	1	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0000	--	--	--	0	1	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0116	--	--	--	0	1	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0221	--	--	--	--	--	0.022	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0173	--	--	--	0	1	0.017	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0105	--	--	--	0	1	0.010	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0006	--	--	--	0	1	0.001	0.003	Pass
CA	150,000 miles	Other	CO	0.21	--	--	--	0	1	0.2	1.0	Pass
CA	150,000 miles	Other	CO-COMP	0.30	--	--	--	0	1	0.3	4.2	Pass
CA	150,000 miles	Other	METHANE	0.0118	--	--	--	0	1	0.012	0.030	Pass
CA	150,000 miles	Other	N2O	0.0000	--	--	--	0	1	0.000	0.010	Pass
CA	150,000 miles	Other	NMOG	0.0116	--	--	--	0	1	0.012	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0221	--	--	--	--	--	0.022	0.030	Pass
CA	150,000 miles	Other	NMOG+NOX-COMP	0.0173	--	--	--	0	1	0.017	0.030	Pass
CA	150,000 miles	Other	NOX	0.0105	--	--	--	0	1	0.010	999.999	Pass
CA	150,000 miles	Other	PM	0.0006	--	--	--	0	1	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076770**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	08/17/2022	**Fuel**	Gasoline
Fuel Batch ID	11080	**Fuel Calibration Number**	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4408	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	485.09	--
FE BAG 1 (Bag 1 Fuel Economy)	17.05	17.05
CO2 BAG 2 (Bag 2 Carbon Dioxide)	360.56	--
FE BAG 2 (Bag 2 Fuel Economy)	23.57	23.57
CO2 BAG 3 (Bag 3 Carbon Dioxide)	323.16	--
FE BAG 3 (Bag 3 Fuel Economy)	26.32	26.32
METHANE (CH4 - Methane)	0.03579	--
CO (Carbon Monoxide)	1.451125	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4178	--
DT-EER (Drive Trace Energy Economy Rating)	-0.022	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.8498	--
MFR FE (Manufacturer Fuel Economy)	22.5	22.5
NOX (Nitrogen Oxide)	0.025018	--
HC-NM (Non-methane Hydrocarbon)	0.253662	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	379	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	376.08309	--

Manufacturer Test Comments 23DA-T02.05P1-1 city 150k Auto Fixed CCO retest

Certification Summary Information Report

Test Group VCRXT02.0574 **Evaporative/Refueling Family** VCRXR0110PR3

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 30	CO	1.45	--	--	--	0	1	1.4	12.5	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	HC-NM	0.25	--	--	--	0	1	0.2	0.3	Pass
CA	50,000 miles	Other	CO	1.45	--	--	--	0	1	1.4	12.5	Pass

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076765**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/08/2022	**Fuel**	Gasoline
Fuel Batch ID	11117	**Fuel Calibration Number**	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4250	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.002306	--
CO (Carbon Monoxide)	0.019469	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.61	--
DT-EER (Drive Trace Energy Economy Rating)	0.0495	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.801	--
MFR FE (Manufacturer Fuel Economy)	40.4	40.4
NOX (Nitrogen Oxide)	0.001997	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.001788	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	215	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	214.96009	--

Manufacturer Test Comments 23DA-T02.05P1-1 hwy 150k Auto ESSon WLTP cE10

Certification Summary Information Report

Test Group VCRXT02.0574 **Evaporative/Refueling Family** VCRXR0110PR3

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	1	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	--	--	0	1	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0020	--	--	--	--	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0020	--	--	--	0	1	0.002	999.999	Pass
CA	150,000 miles	Other	NMOG	0.0000	--	--	--	0	1	0.000	999.999	Pass
CA	150,000 miles	Other	NMOG+NOX	0.0020	--	--	--	--	--	0.002	0.030	Pass
CA	150,000 miles	Other	NOX	0.0020	--	--	--	0	1	0.002	999.999	Pass

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

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076766**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/08/2022	**Fuel**	Gasoline
Fuel Batch ID	11117	**Fuel Calibration Number**	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4279	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	520.39	--
FE BAG 1 (Bag 1 Fuel Economy)	16.66	16.66
CO2 BAG 2 (Bag 2 Carbon Dioxide)	285.75	--
FE BAG 2 (Bag 2 Fuel Economy)	30.3	30.3
METHANE (CH4 - Methane)	0.005566	--
CO (Carbon Monoxide)	0.368586	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.26	--
DT-EER (Drive Trace Energy Economy Rating)	-1.24	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.491	--
MFR FE (Manufacturer Fuel Economy)	25.6	25.6
NOX (Nitrogen Oxide)	0.014621	--
HC-NM (Non-methane Hydrocarbon)	0.003899	--
NMOG (Non-methane organic gases)	0.004017	--
PM (Particulate Matter)	0.000259	--
HC-TOTAL (Total Hydrocarbon)	0.009185	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	339	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	337.78431	--

Manufacturer Test Comments 23DA-T02.05P1-1 us06 150k Auto ESSon WLTP cE10

Certification Summary Information Report

Test Group VCRXT02.0574 **Evaporative/Refueling Family** VCRXR0110PR3

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.37	--	--	--	0	1	0.4	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0040	--	--	--	0	1	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0146	--	--	--	0	1	0.015	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0	1	0.000	0.006	Pass
CA	150,000 miles	Other	CO	0.37	--	--	--	0	1	0.4	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0040	--	--	--	0	1	0.004	999.999	Pass
CA	150,000 miles	Other	NOX	0.0146	--	--	--	0	1	0.015	999.999	Pass
CA	150,000 miles	Other	PM	0.0003	--	--	--	0	1	0.000	0.006	Pass

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076767**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/08/2022	**Fuel**	Gasoline
Fuel Batch ID	11117	**Fuel Calibration Number**	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	CPG		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4295	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.016211	--
CO (Carbon Monoxide)	0.322782	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.056	--
DT-EER (Drive Trace Energy Economy Rating)	-1.326	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.657	--
MFR FE (Manufacturer Fuel Economy)	22.8	22.8
NOX (Nitrogen Oxide)	0.008994	--
HC-NM (Non-methane Hydrocarbon)	0.002721	--
NMOG (Non-methane organic gases)	0.002803	--
HC-TOTAL (Total Hydrocarbon)	0.018116	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	381	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	380.4346	--

Manufacturer Test Comments 23DA-T02.05P1-1 sc03 150k Auto ESSon WLTP cE10

Certification Summary Information Report

Test Group VCRXT02.0574 **Evaporative/Refueling Family** VCRXR0110PR3

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.32	--	--	--	0	1	0.3	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0028	--	--	--	0	1	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0090	--	--	--	0	1	0.009	999.999	Pass
CA	150,000 miles	Other	CO	0.32	--	--	--	0	1	0.3	999.9	Pass
CA	150,000 miles	Other	NMOG	0.0028	--	--	--	0	1	0.003	999.999	Pass
CA	150,000 miles	Other	NOX	0.0090	--	--	--	0	1	0.009	999.999	Pass

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Emission Data Vehicle Information

Vehicle ID / Configuration	L3MPJ2067 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PCRXT02.05P1	**Original Evaporative/Refueling Family**	PCRXR0110PP3
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	Jeep	**Represented Test Vehicle Model**	Compass 4X4

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AA-0400	**Rated Horsepower**	200
Displacement (liters)	2		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	1	**Air Aspiration Device Configuration**	Single
Charge Air Cooler Type	Air	**Drive Mode While Testing**	2-Wheel Drive, Front
Shift Indicator Light Usage	Equipped, not shifted by SIL	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	3620	**Equivalent Test Weight (pounds)**	4000
GVWR (lbs)	4800	**N/V Ratio**	34.6
Axle Ratio	2.79		
Transmission Type	Automatic	**# of Transmission Gears**	8
Transmission Lockup	Yes	**Creeper Gear**	No

Dynamometer Coefficients:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	31.53	0.4867	0.02274	9.27	0.2105	0.02434	15

Emission Control Device Comments --

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Manufacturer Test Vehicle Comments callout: 23EV-T02.05P1-1

Test #	**PCRX10076923**	**Test Procedure**	**38 - CA fuel 3-day evap.**
Exhaust Test # for this Evap Test	PCRX10076909	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/23/2022	**Fuel**	Gasoline
Fuel Batch ID	11123	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4208	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.204779	--

Manufacturer Test Comments Callout: 23EV-T02.05P1-1; Cert 3-Day/Evap (cE10) Hot_Soak_HC_(g) = 0.04991, Diurnal (g) = 0.13970; 3DayTotal = (0.04991+0.13970)*1.08 = 0.2047788(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	0.2048	0.0090	0.214	0.400	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.2048	0.0090	0.214	0.400	Pass

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX91005237**	**Test Procedure**	**27 - California fuel 2-day evap**
Exhaust Test # for this Evap Test	PCRX91005230	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/18/2022	**Fuel**	Gasoline
Fuel Batch ID	26757	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4480	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.224719	--

Manufacturer Test Comments Hot_Soak_HC_(g) = 0.025514, Diurnal (gHC) = 0.199205

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	0.2247	0.0057	0.230	0.400	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.2247	0.0057	0.230	0.400	Pass

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076922**	**Test Procedure**	**37 - California Fuel Running Loss**
Exhaust Test # for this Evap Test	PCRX10076909	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/23/2022	**Fuel**	Gasoline
Fuel Batch ID	11123	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4191	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000968	--

Manufacturer Test Comments Callout: 23EV-T02.05P1-1; Cert Evap RL test(cE10) RL=(0.000896 *1.08)=0.00096768

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	0.001	0.000	0.00	0.05	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.001	0.000	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076924**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	PCRX10076908	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/20/2022	**Fuel**	Gasoline
Fuel Batch ID	11123	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	CTC		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4115	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC (Hydrocarbon for Running Loss and ORVR)	0.02268	--

Manufacturer Test Comments Callout: 23EV-T02.05P1-1; Cert ORVR(cE10) ORVR = 0.021 *1.08 = 0.02268 g/gallons

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.023	0.000	0.02	0.20	Pass
CA	150,000 miles	Other	HC	0.023	0.000	0.02	0.20	Pass

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Test #	**PCRX10076944**	**Test Procedure**	**65 - Evap Canister Bleed Test**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/29/2017	**Fuel**	Gasoline
Fuel Batch ID	--	**Fuel Calibration Number**	--
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Sterling Performance		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	0	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0064	--

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	0.0064	0.0000	0.006	0.020	Pass
CA	150,000 miles	Other	HC-TOTAL-EQUIV	0.0064	0.0000	0.006	0.020	Pass

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Fuel Properties

Fuel Batch ID	**11123**	**Fuel Calibration Number**	**1**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	08/08/2022
Fuel Batch Calibration Effective Date	08/08/2022	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	0.826	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.752
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17954
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	**Weight Fraction CO2**	--

Fuel Batch ID	**11117**	**Fuel Calibration Number**	**1**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	07/20/2022
Fuel Batch Calibration Effective Date	07/20/2022	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	0.828	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.752
Fuel Ethanol Volume Percent (%)	9.8	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18005
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	**Weight Fraction CO2**	--

Fuel Batch ID	**11080**	**Fuel Calibration Number**	**1**
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	**Fuel Batch Calibration Date**	02/10/2022
Fuel Batch Calibration Effective Date	02/10/2022	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	0.827	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	0
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.743
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17945
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	**Weight Fraction CO2**	--

Fuel Batch ID	**26757**	**Fuel Calibration Number**	**1**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	07/27/2017
Fuel Batch Calibration Effective Date	07/27/2017	**Fuel Batch Calibration Ineffective Date**	07/27/2032
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.749
Fuel Ethanol Volume Percent (%)	9.8	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17958
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 3 Bin 30
Fuel	Gasoline	**Test Procedure**	California fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	1.0
150,000 miles	CO-COMP	--	--	--	--	--	1	0	4.2
150,000 miles	CREE	--	--	--	--	--	1	0	999
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Other
Fuel	Gasoline	**Test Procedure**	California fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	1.0
150,000 miles	CO-COMP	--	--	--	--	--	1	0	4.2
150,000 miles	HCHO	--	--	--	--	--	1	0	0.004
150,000 miles	METHANE	--	--	--	--	--	1	0	0.030
150,000 miles	N2O	--	--	--	--	--	1	0	0.010
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.003

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Other
Fuel	Gasoline	**Test Procedure**	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 3 Bin 30
Fuel	Gasoline	**Test Procedure**	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	1	0	999
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 3 Bin 30
Fuel	Gasoline	**Test Procedure**	SC03

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

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 3 Bin 30
Fuel	Gasoline	**Test Procedure**	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	0	999.9
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NOX	--	--	--	--	--	1	0	999.999
150,000 miles	PM	--	--	--	--	--	1	0	0.006

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Other
Fuel	Gasoline	**Test Procedure**	SC03

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

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Other
Fuel	Gasoline	**Test Procedure**	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	--	--	--	1	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	0	0.030
150,000 miles	NOX	--	--	--	--	--	1	0	999.999

Certification Summary Information Report

Test Group VCRXT02.0574 **Evaporative/Refueling Family** VCRXR0110PR3

Cert Region Federal **Cert/In-Use Code** Cert
Vehicle Class LDT2 (LVW 3751-5750, GVW 0-6000) **Standard Level** Federal Tier 3 Bin 30
Fuel Gasoline **Test Procedure** Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	1	0	12.5
150,000 miles	HC-NM	--	--	--	--	--	1	0	0.3

Cert Region California + CAA Section 177 states **Cert/In-Use Code** Cert
Vehicle Class LDT2 (LVW 3751-5750, GVW 0-6000) **Standard Level** Other
Fuel Gasoline **Test Procedure** Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	1	0	12.5

Evaporative/Refueling Standards

Evaporative/Refueling Family VCRXR0110PR3 **Cert Region** California + CAA Section 177 states
Cert/In-Use Code Cert **Standard Level** Other
Test Procedure Evap Canister Bleed Test

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000

Evaporative/Refueling Family VCRXR0110PR3 **Cert Region** California + CAA Section 177 states
Cert/In-Use Code Cert **Standard Level** Other
Test Procedure California fuel 2-day evap

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0057

Evaporative/Refueling Family VCRXR0110PR3 **Cert Region** California + CAA Section 177 states
Cert/In-Use Code Cert **Standard Level** Other
Test Procedure CA fuel 3-day evap.

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0090

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3

Evaporative/Refueling Family	VCRXR0110PR3	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	CA fuel 3-day evap.		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0090

Evaporative/Refueling Family	VCRXR0110PR3	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	California fuel 2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0057

Evaporative/Refueling Family	VCRXR0110PR3	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0.000

Evaporative/Refueling Family	VCRXR0110PR3	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	California Fuel Running Loss		

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

Evaporative/Refueling Family	VCRXR0110PR3	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000

Evaporative/Refueling Family	VCRXR0110PR3	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Cert	**Standard Level**	Other
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0.000

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3
Evaporative/Refueling Family	VCRXR0110PR3	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Cert	**Standard Level**	Other
Test Procedure	California Fuel Running Loss		

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

Certification Summary Information Report

Test Group	VCRXT02.0574	Evaporative/Refueling Family	VCRXR0110PR3

Glossary

Useful Life

4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		

Emission Name

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

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3
ACT-DISTANCE	Actual Distance Driven (miles)	WATT-HRS BAG 3	Bag 3 Watt Hours
AS-VOLT	Average System Voltage	WATT-HRS BAG 4	Bag 4 Watt Hours
CO2 BAG 1	Bag 1 Carbon Dioxide	WATT-HRS	Watt Hours
CO2 BAG 2	Bag 2 Carbon Dioxide	HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon
CO2 BAG 3	Bag 3 Carbon Dioxide	HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon
CO2 BAG 4	Bag 4 Carbon Dioxide	HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	N2O BAG 1	Bag 1 Nitrous Oxide
DT-IWRR	Drive Trace Inertia Work Ratio Rating	N2O BAG 2	Bag 2 Nitrous Oxide
DT-ASCR	Drive Trace Absolute Speed Change Rating	N2O BAG 3	Bag 3 Nitrous Oxide
DT-EER	Drive Trace Energy Economy Rating	N2O BAG 4	Bag 4 Nitrous Oxide
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
B2	Federal Tier 2 Bin 2	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
B3	Federal Tier 2 Bin 3	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
B4	Federal Tier 2 Bin 4	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
B5	Federal Tier 2 Bin 5	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
B6	Federal Tier 2 Bin 6	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
B7	Federal Tier 2 Bin 7	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
B8	Federal Tier 2 Bin 8	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
B9	Federal Tier 2 Bin 9	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
B10	Federal Tier 2 Bin 10	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
B11	Federal Tier 2 Bin 11	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2	California LEV-II LEV	L4SULEV100	California LEV-IV SULEV100
L2OP	California LEV-II LEV Optional	L4SULEV125	California LEV-IV SULEV125
U2	California LEV-II ULEV	L4SULEV15	California LEV-IV SULEV15
S2	California LEV-II SULEV	L4SULEV150	California LEV-IV SULEV150
ZEV	California ZEV	L4SULEV170	California LEV-IV SULEV170
OT	Other	L4SULEV175	California LEV-IV SULEV175
T1	Federal Tier 1	L4SULEV20	California LEV-IV SULEV20
PZEV	California PZEV	L4SULEV200	California LEV-IV SULEV200
L2LEV160	California LEV-II LEV160	L4SULEV230	California LEV-IV SULEV230
L2ULEV125	California LEV-II ULEV125	L4SULEV25	California LEV-IV SULEV25
L2SULEV30	California LEV-II SULEV30	L4SULEV30	California LEV-IV SULEV30
L2LEV395	California LEV-II LEV395	L4SULEV75	California LEV-IV SULEV75

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3
L2ULEV340	California LEV-II ULEV340	L4SULEV85	California LEV-IV SULEV85
L2LEV630	California LEV-II LEV630	L4ULEV125	California LEV-IV ULEV125
L2ULEV570	California LEV-II ULEV570	L4ULEV200	California LEV-IV ULEV200
L3LEV160	California LEV-III LEV160	L4ULEV250	California LEV-IV ULEV250
L3ULEV125	California LEV-III ULEV125	L4ULEV270	California LEV-IV ULEV270
L3ULEV70	California LEV-III ULEV70	L4ULEV40	California LEV-IV ULEV40
L3ULEV50	California LEV-III ULEV50	L4ULEV400	California LEV-IV ULEV400
L3SULEV30	California LEV-III SULEV30	L4ULEV50	California LEV-IV ULEV50
L3SULEV20	California LEV-III SULEV20	L4ULEV60	California LEV-IV ULEV60
L3LEV395	California LEV-III LEV395	L4ULEV70	California LEV-IV ULEV70
L3ULEV340	California LEV-III ULEV340	T4B170	Federal Tier 4 MDV Bin 170
L3ULEV250	California LEV-III ULEV250	T4B150	Federal Tier 4 MDV Bin 150
L3ULEV200	California LEV-III ULEV200	T4B125	Federal Tier 4 MDV Bin 125
L3SULEV170	California LEV-III SULEV170	T4B100	Federal Tier 4 MDV Bin 100
L3SULEV150	California LEV-III SULEV150	T4B85	Federal Tier 4 MDV Bin 85
L3LEV630	California LEV-III LEV630	T4B75	Federal Tier 4 MDV Bin 75
L3ULEV570	California LEV-III ULEV570	T4B70	Federal Tier 4 Bin 70
L3ULEV400	California LEV-III ULEV400	T4B65	Federal Tier 4 Bin 65
L3ULEV270	California LEV-III ULEV270	T4B60	Federal Tier 4 Bin 60
L3SULEV230	California LEV-III SULEV230	T4B55	Federal Tier 4 Bin 55
L3SULEV200	California LEV-III SULEV200	T4B50	Federal Tier 4 Bin 50
T3B160	Federal Tier 3 Bin 160	T4B45	Federal Tier 4 Bin 45
T3B125	Federal Tier 3 Bin 125	T4B40	Federal Tier 4 Bin 40
T3B110	Federal Tier 3 Transitional Bin 110	T4B35	Federal Tier 4 Bin 35
T3B85	Federal Tier 3 Transitional Bin 85	T4B30	Federal Tier 4 Bin 30
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	T4B25	Federal Tier 4 Bin 25
T3B70	Federal Tier 3 Bin 70	T4B20	Federal Tier 4 Bin 20
T3B50	Federal Tier 3 Bin 50	T4B15	Federal Tier 4 Bin 15
T3B30	Federal Tier 3 Bin 30	T4B10	Federal Tier 4 Bin 10
T3B20	Federal Tier 3 Bin 20	T4B5	Federal Tier 4 Bin 5
T3B0	Federal Tier 3 Bin 0	T4B0	Federal Tier 4 Bin 0
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395		

Transmission Type Code			
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)

Drive System Code			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

Certification Summary Information Report

Test Group	VCRXT02.0574	**Evaporative/Refueling Family**	VCRXR0110PR3
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		

Additional Terms and Acronyms

AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

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.

FIAT CHRYSLER AUTOMOBILES

Section 10 Description of Alternate - Fueled Vehicles

Not Applicable to this Test Group

FCA US LLC

Test Group - VCRXT02.0574

EPA COMP CODE	AA-1000	AA-2000
E10:Powertrain Control Module		
E11:Transmission Control Module		
E17:ABS Control Module		
F01:Fuel Tank		
F18:Fuel Pump - High Pressure		
F36:Fuel Filler Receptacle		
F40:Throttle Body		
F50:Fuel Injector		
F55:Fuel Pressure Regulator		
F58:Fuel Pump Control Module		
F59:Fuel Pressure Sensor		
F70:Evap. Canister Assembly		
F79:ESIM (Evaporative System Integrity Monitor)		
I05:Spark Plug		
I10:Ignition Coil		
L01:Heated Oxygen Sensor		
L12:Accelerator Pedal Position Sensor		

EPA COMP CODE	AA-1000	AA-2000
L15:Camshaft Position Sensor		
L16:Crankshaft Position Sensor		
L20:Knock Sensor		
L25:Vehicle 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		
M15:Engine Coolant Temperature Sensor		
N17:Crankshaft Target Wheel		
N30:Turbocharger		
N31:Charge Air Cooler		
N50:Engine Thermostat		
N56:EGR Valve		
N57:EGR Cooler		
N91:Evaporative Canister to Tank Hose		
N95:Evaporative System Purge Valve to Intake Manifold Hose		
T50:Transmission Output Speed Sensor		

EPA COMP CODE	AA-1000	AA-2000
V01:PCV Valve		
V05:MAP Sensor		
V63:Evap. Can. Purge Solenoid		
V71:Crankcase Pressure Sensor		
Z01:VECI Label		

Section11-100 Engine Parts List

FCA US LLC

Test Group :VCRXT02.0574

Durability Group: VCRXGPGNNF01 **Standard Fed:** Bin30 **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	DGD		8	0.635	4.717,2.906,1.864,1.423,1.224,1.0,0.79,0.635	EC4	N/A		Electronically shifted data on file

Section12-200 Transmission

VCRXT02.0574

Durability Group: VCRXGPGNNF01 **Standard Fed: Bin30** **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: 2.0L (EC4)** **Evap Family - Evap Code: VCRXR0110PR3-13.5**

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW 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
MPJA74	Jeep: Compass 4X4			L8 - 4X4 DGD		4800	3875 2235 3618		2.37 2.37 2.37 2.37 2.37	30 29.7 29.7 29.5 29.3	225/60R17 TTU 225/55R18 TJC 235/45R19 TPS 225/55R18 TWL 215/65R17 TAK	TZF TZY TZC TZC TZJ	EN992Y 2877R19 A8E8 47LB 304002 68623634AA	18.71 18.00 17.29 17.10 15.52	12.8 13.3 13.9 14.0 15.4	21.62000 23.46000 29.01000 28.45000 38.15000	0.40760 0.45540 0.15470 0.44910 0.27260	0.02169 0.02150 0.02696 0.02173 0.02563	23.78000 25.81000 31.91000 31.30000 41.96000	0.44840 0.50090 0.17020 0.49400 0.29990	0.02386 0.02365 0.02966 0.02390 0.02819

Engine Code AA-2000 **Eng Displ: 2.0L (EC4)** **Evap Family - Evap Code: VCRXR0110PR3-13.5**

Model	Carline Name	Model Qualifiers	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW 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
MPJA74	Jeep: Compass 4X4			L8 - 4X4 DGD		4800	3875 1383 3618		2.79 2.79 2.79 2.79 2.79	22.4 22.2 22.2 22.1 21.9	225/60R17 TTU 225/55R18 TJC 235/45R19 TPS 225/55R18 TWL 215/65R17 TAK	TZF TZY TZC TZC TZJ	EN992Y 2877R19 A8E8 47LB 304002 68623634AA	18.71 18.00 17.29 17.10 15.52	12.8 13.3 13.9 14.0 15.4	21.62000 23.46000 29.01000 28.45000 38.15000	0.40760 0.45540 0.15470 0.44910 0.27260	0.02169 0.02150 0.02696 0.02173 0.02563	23.78000 25.81000 31.91000 31.30000 41.96000	0.44840 0.50090 0.17020 0.49400 0.29990	0.02386 0.02365 0.02966 0.02390 0.02819

FCA US LLC

Test Group: VCRXT02.0574 - Engine Code Index

Durability Group: VCRXGPGNNF01 **Standard : Bin30 / NA** **Vehicle Class: LDT2 (LVW 3751-5750, GVW 0-6000) / N/A**

Engine Code: AA-1000 - 2.0L EC4 MP A8 DGD 4x4

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		2.0L/EC4	MP		L8/ Automatic L8 - Lockup/Automatic/8-speed	4800	4800	3875	3875	4X4	NAS

Engine Code: AA-2000 - 2.0L EC4 MP A8 DGD 4x4 Trailhawk

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		2.0L/EC4	MP		L8/ Automatic L8 - Lockup/Automatic/8-speed	4800	4800	3875	3875	4X4	NAS

Test Group: VCRXT02.0574 - No Engine Code Changes

Durability Group: VCRXGPGNNF01 Standard Fed: Bin30 Cal: N/A

RC/FF #	Submission Date	Description

No Results Found

Section12-500 Engine Code Index

Section 12 Vehicle Parameters

Valves per cylinder	Engine 2.0 Liters - 4

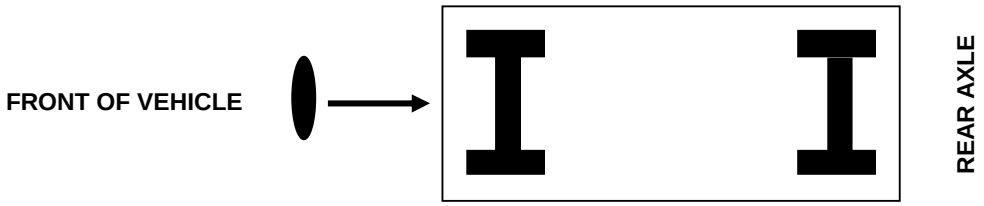
Test Parameters

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 All Vehicles - 105 grams
Fuel temperature Profile:	Models All Vehicles - cMP
Special Test Procedure:	Models All - none

FAN POSITION DIAGRAM

All vehicles in Test Group

EDV Dyno Configuration
2 Wheel Dyno - Front Drive



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 m3/s at 60 mph)	24-36 inches from bumper/front of vehicle (facility dependent)	CLOSED

FCA
FIAT CHRYSLER AUTOMOBILES

April 28, 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 LDT Certificate of Conformity Request

FCA US LLC requests a 2027 MY Certificate of Conformity for the 2.0L Interim Tier 4 Federal and 50 State test group VCRXT02.0574 with evaporative family: VCRXR0110PR3. This test group is being certified to Tier 4i BIN 30 standards. FCA US LLC agrees to meet the Tier 4i BIN 30 standards, and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT02.0574. 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 LDT test group are as follows:

Emission Standards		City/Hwy NMOG+NOx	CO	HCHO	PM	
Tier 4i BIN 30	150K	0.030	1.0	0.004	0.003	
Evaporative Standards		**3-Day**	**2-Day**	**R/L**	**ORVR**	**Canister Bleed**
VCRXR0110PR3	150K	0.400	0.400	0.05	0.2	0.02

Initial combined CREE for VCRXT02.0574 test group is = 278.1

The models in this test group are as follows:

Division / Model
Jeep/Compass, 4WD

If there are any questions regarding this submission, please contact Kevin Wright at 248-946-2561 or Gary J. Arvan at 248.221.9461.

Sincerely,
FCA US LLC

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

FCA
FIAT CHRYSLER AUTOMOBILES

April 28, 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 LDT Executive Order Request

FCA US LLC requests a 2027 MY Executive Order for the 2.0L 50 State test group VCRXT02.0574 with evaporative family: VCRXR0110PR3. 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 Interim Tier 4 requirements as reflected in the enclosed EPA Certificates of Conformity and EPA Certification Summary Information.

FCA US LLC agrees to meet the Tier 4i BIN 30 emission standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group VCRXT02.0574. 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 LDT test group are as follows:

Emission Standards		City/Hwy NMOG+NOx	CO	HCHO	PM	
Tier 4i BIN 30	150K	0.030	1.0	0.004	0.003	
Evaporative Standards		**3-Day**	**2-Day**	**R/L**	**ORVR**	**Canister Bleed**
VCRXR0110PR3	150K	0.400	0.400	0.05	0.2	0.02

Initial combined CREE for VCRXT02.0574 test group is = 278.1

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 Kevin Wright at 248-946-2561 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/kpw

US EPA Fee Form

Help and EPA Instructions

* Required Field

General Information

Date: 03/25/2026

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 *

VCRXT02.0574

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).

STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
CALIFORNIA AIR RESOURCES BOARD

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

CARB USE ONLY

Invoice Name	MSF250940
Invoice Date	Mar 16, 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_VCRXT02.0574_APPIPT	Model Year 2027	VCRXT02.0574	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
2	CBI_VCRXT01.6551_APPIPT	Model Year 2027	VCRXT01.6551	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
3	CBI_VCRXT01.6550_APPIPT	Model Year 2027	VCRXT01.6550	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
4	CBI_VCRXJ01.6571_APPIPT	Model Year 2027	VCRXJ01.6571	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00

Total Due	$ 201,236.00

I, Gary Arvan
Gary Arvan (Mar 16, 2026 11:25:26 EDT) , 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: Monday, April 13, 2026 11:18 AM
To: PAM BARYLSKI
Subject: [EXTERNAL]MS Fee Payment Confirmation for Invoice MSF250940
Attachments: MSF250940 - 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 MSF250940. 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 – 25RA0369
2. Date of Payment – 4/9/2026
3. Payment Status - Paid

FIAT CHRYSLER AUTOMOBILES

2027 50-State (NAS) MP

Test Group: VCRXT02.0574

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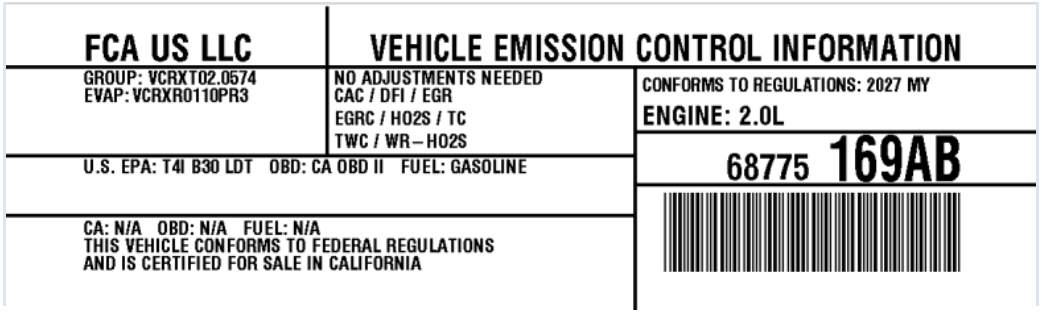

VECI label is located on the vehicle per 40 CFR 86.1807-01.