

Application for Certification

Model Year: 2027
 Manufacturer Name: MINI

Test Group: VBMXJ02.0M4P
 Test Group Description: in-line 4-cylinder, 4-stroke, 2.0 Liter, gasoline

Durability Group: VBMXGPGNNV3P
 Durability Group Description: 4-Stroke Otto Cycle
 gasoline
 direct fuel injection and multiport fuel injection
 ceramic, monolith
 Palladium, Rhodium
 Gasoline Particulate Filter, Three-Way Catalyst

Evaporative Group: VBMXR0120U11

Applicable Standards: EPA
 FTP Standard: Interim Tier 4 - Bin 20
 SFTP Standard: Interim Tier 4 composite - 0.040
 EVAP FEL: Tier 3 - 300

Vehicle Classes Covered: EPA
 LDT 2

Carlines Covered: Countryman S ALL4

Test EDV:

VID	CFG	Fuel	FTP	HWY	US06	SC03	Cold CO
7R43669	00	T3E10	TBMX10090990	TBMX10090991	TBMX10090993	TBMX10090992	TBMX10090995
7R43669	01	T2E0	TBMX10091000	TBMX10091001	---	---	---

Test EDV EVAP:

Family	VID	CFG	Fuel	3-day	RL	2-day	ORVR	BTP	Leak
R0120U11	5U31827	00	T3E10	not applicable	not applicable	PBMX10075602	PBMX10075859	PBMX10075679	PBMX10075680
R0120U11	5U31826	04	T3E10	SBMX10087472	SBMX10087473	not applicable	not applicable	not applicable	not applicable

For questions, Contact: Carlheinz Bayer, 201 / 571 - 5193

Table of Contents

Section Contents

1	Correspondence and Communications
2	Durability Group Description
3	Evaporative/Refueling Family Description
4	Durability Procedure Description
5	Test Group Description
6	Test Vehicle Description
7	Test Results
8	Statements
9	OBD System Description
10	Description of Alternate-fueled Vehicles
11	AECD descriptions
12	Descriptions of vehicles covered by certificate and test parameters
13	Projected Sales
14	Request for Certification
15	Other Information
16	Confidential information / Catalyst Loading Information
17	Attachment

1. Correspondence and Communications

- 1.1. Authorized Persons Refer to Common Section
- 1.2. Certificate Information Refer to Common Section
- 1.3. Primary certification contact:

Name: Carlheinz Bayer
Phone Number: 201 / 571 - 5193
Fax Number: 201 / 571 - 5479
E-Mail-Address: Carlheinz.Bayer@bmwna.com

2. Durability Group Description

2.1.	Durability Group Name	VBMXGPGNNV3P
2.2.	Combustion Cycle	4-Stroke Otto Cycle
2.3.	Engine type	piston, water cooled
2.4.	Fuel used	gasoline
2.5.	Basic fuel metering system	direct fuel injection and multiport fuel injection
2.6.	Catalyst construction	ceramic monolith
2.7.	Precious Metals in Catalyst	Palladium Rhodium
2.8.	Particulate Filter Construction	ceramic monolith
2.9.	Precious Metals in Particulate Filter	not applicable
2.10.	Precious Metal Loading	Refer to Section 16, Confidential Information
2.11.	Range of Catalyst Grouping Statistics	7.1 - 9.4

3. Evaporative / Refueling Family Description

- 3.1. Evaporative / Refueling Family Name VBMXR0120U11
- 3.2. Evaporative / Refueling Family Parameters specified in 40 CFR § 86.1821-01:
- 3.2.1. Type of vapor storage device canister
- 3.2.2. Basic canister design
Working capacity: 120 g
System configuration: 1 canister
Canister Construction: active charcoal granulate
closed bottom
Canister Materials: plastic
- 3.2.3. Fuel system time-contr. DI
time-contr. MPI
- 3.2.4. Type of refueling emission control system integrated system
- 3.2.5. Fillpipe seal mechanism liquid seal
- 3.2.6. Vapor control system passive mechanical system with liquid seal
- 3.2.7. Purge control system electric purge valve
- 3.2.8. Vapor hose material multilayer plastic
- 3.2.9. Fuel tank material hdpe
- 3.3. Leak Family Description same Leak-Standard in between the evaporative family

3.4. ORVR Statement

Evaporative Family VBMXR0120U11

ORVR safety application is carried over from previous model year.

This evaporative / refueling family was first certified for model year 2023.

During this time period we had no in-use problems or defects related to the ORVR system that required action by BMW.

There have been no service notifications, campaigns, instructions or bulletins to dealers or field personal or changes in production procedures or components.

No safety-related defect campaigns have been conducted related to the ORVR system.

Therefore no EPA/NHTSA review of this evaporative / refueling family was required.

4. Durability Procedure Description

4.1. Description of used durability process

4.1.1. Alternative Durability Program for Exhaust Emissions: The durability data vehicle was aged according to the bench aging process described in §86.1823-08. Following parameters were used to age the catalyst of the durability data vehicle:

	Exhaust branch 1. line	Exhaust branch 2. line
Tref [°C] =	865,0	---
calculated tref [h] =	430,0	---
effective tref [h] =	430,1	---

Statement: Based on BMW`s good engineering judgment, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards.

4.1.2. Durability Program for Evaporative/Refueling Emissions: Confidential Information:
Refer to Common Section

4.2. Determination of certification Levels

4.2.1. Exhaust Emissions: additive deterioration factor:

For Deterioration Factors refer to Summary Sheet enclosed in Chapter 7 of this application.

4.2.2. Evaporative/Refueling Emissions: additive deterioration factor:

For Deterioration Factors refer to Summary Sheet enclosed in Chapter 7 of this application.

5. Test Group Description

5.1.	Test Group Name	VBMXJ02.0M4P
5.2.	Engine information	
5.2.1.	Engine displacement	1998 cm ³
5.2.2.	Arrangement of cylinders	in line
5.2.3.	Number of cylinders	4
5.4.	Vehicle class	EPA LDT 2
5.5.	Emission standards class	Interim Tier 4 - Bin 20
5.6.	Applicable emission standards	Refer to Summary Sheet enclosed in Section 7 of this application.

6. Test Vehicle Description

6.1. Test Vehicle Description EDV, FEDV, DDV

VID	CFG	Carline	Model	Trans Type	Type	Fuel	ESS	Road Load CFG	Gear	Mode	eDrive	ETW
7R43669	00	--	Countryman S ALL4	AMS-7	EDV	T3E10	off	30	refer to section 12	refer to section 12	refer to section 12	4000
7R43669	01	427	Countryman S ALL4	AMS-7	FEDV	T2E0	on	33	D	default mode	---	4000
7R43669	02	427	Countryman S ALL4	AMS-7	FEDV	T2E0	on	32	D	default mode	---	4000
7R43669	03	427	Countryman S ALL4	AMS-7	FEDV	T2E0	on	31	D	default mode	---	4000
7R43662	---	---	Countryman S ALL4	---	DDV	T3E10	---	---	---	---	---	4250

Test parameters are described in the EV-CIS vehicle information

Road Load Configuration Description

- X_ means number of FEDV tire groups used for this model
- 30 Road Load for EDV (worst case)
- 31 Road Load for first FEDV configuration
- 32 Road Load for second FEDV configuration
- 33 Road Load for third FEDV configuration

6.2. Test Vehicle Description EVAP EDV

VID	CFG	Model	Type	Fuel	Family
5U31826	04	X1 xDrive28i	EDV EVAP	T3E10	R0120U11
5U31827	00	X1 xDrive28i	EDV EVAP	T3E10	R0120U11

For complete vehicle description, refer to Certification Summary Information Report Sheet, enclosed in Section 7 of this application.
Selection of vehicles carried out according to 40 CFR §86.1828-01(a).

7. Test results (Cover page)

7.1. Certification Summary Information Report submitted to EV-CIS

see attachment:
CSI-VBMXJ02.0M4P-VBMXR0120U11

7.2. Litmus Check

see attachment: 03LC-0M4P-02

8. Statements

8.1 Emission Testing Waiver Statements

All applicable vehicles will conform with the emission standards for which emission data is not being provided, as allowed under 40 CFR §86.1806-27, §86.1811-27, §86.1829-15 and §86.1865-12. The statements below identify the standards for which emission testing was not performed.

Data submittal waiver for HCHO emission compliance

Based on our engineering evaluation of appropriate HCHO emissions we state, that all light-duty vehicles included in the respective applications comply with the applicable HCHO emission standards. According to 40 CFR §86.1829-15 (d) (4), we waive the data submittal on the basis of this statement.

Data submittal waiver for high-altitude exhaust and evaporative emissions compliance

Based on an engineering evaluation of appropriate high-altitude emission testing we state that all vehicles included in this application comply with the applicable exhaust and evaporative emissions standards at high altitude. According to 40 CFR §86.1829-15 (c), we waive the data submittal on the basis of this statement.

According to 40 CFR §86.1865-12 (h) (3), we state for all vehicles included in this application that the hardware and software emission control strategies used during low altitude condition testing are used similarly across all altitudes for in-use operation.

According to 40 CFR §86.1811-27 (c)(4) for Tier 4 vehicles we state based on an engineering evaluation for all vehicles included in this application that common calibration approaches are used at high altitudes, there is no deviation from low altitude emission control practices.

Evaporative Leak-Detection

For test groups not selected for OBD demonstration testing we state as the manufacturer, consistent with good engineering judgment, that all vehicles included in this application comply with the applicable leak monitoring requirement.

Spitback Testing Waiver

According to 40 CFR §86.1829-15 (e) (5), BMW certifies, that all vehicles included in this application do not exceed the fuel dispensing spitback standard of 1.0g THCE as given in §86.1813-17 (c).

8.2 Compliance Statements

"Lean-on-cruise" calibration strategies

There are no "Lean-on-cruise" calibration strategies according to 40 CFR §86.1811-17 (d)(4) incorporated into the vehicle design of this Test Group.

91RON-Statement

According to VPCD 97-01 we confirm that city and highway fuel economy test result differences between comparing 91 RON operation and 96 RON operation is within 3%. Emission standards are met at 91 RON operation and 96 RON operation as demonstrated by certification testing. Hereby EDV testing is done using Tier 3 E10 fuel with 91 RON, FEDV testing is using Tier 2 E0 fuel with 96 RON.

A/C-on specific calibrations-Statement

According to 40 CFR §86.1811-27(d) we state as the manufacturer that there are no A/C-on specific calibrations that differ from A/C-off calibrations for a given set of engine operating conditions which unnecessarily reduce emission control effectiveness during A/C-on operation when the vehicle is operated under conditions that may reasonably be expected during normal operation and use.

Cold Temperature Emission Control-Statement

According to 40 CFR §86.1809-12 (c) and based on engineering evaluations of emission testing between 25°F and 68°F, we confirm for all vehicles covered by this test group, that the guideline for CO and NMHC emission congruity in the intermediate temperature range is fulfilled by this test group.

Corporate Average Fuel Economy Calculation-Statement

Since the 2007 model year and in accordance with Dear Manufacturer letter CISD-09-19, BMW uses customer data to analyze whether predominance criteria are met regarding a certain operation mode of the multimode transmissions. Usage rates are determined by collecting data from the onboard powertrain and/or transmission control module. Using good engineering judgment, BMW has concluded that it is appropriate to carry-forward and carry-across the results of the earlier surveys where predominant use of one mode has been demonstrated.

Emission Control System Continuity-Statement

According to 40 CFR §86.1809-12 (e) and based on engineering evaluations of emission testing between 20°F and 86°F, we confirm for all vehicles covered by this test group, that there is no discontinuity in emissions of NMOG, CO, CO₂, N₂O, NO_x, CH₄, HCHO, and in case of diesel vehicles also particulate emissions as measured on the FTP and Highway tests in the temperature range of 20°F to 86°F.

Engine Oil used for Certification Testing

Based on the guidance letters CISD-2008-11, CISD-10-11 and CD-2020-03 BMW confirms that it fulfills the "representativeness" requirements of 40 CFR 600.007(b)(6) with regard to the engine oils used in its test vehicles. BMW uses the factory fill oil for test vehicle run in, certification testing and fuel economy testing. The specific SAE viscosity grade used is included in the CSI information of each application. BMW uses non-API-registered fully synthetic oils. For factory fill, 0W-12, 0W-20, and 0W-30 oils are used (viscosity grades vary by engine model). For maintenance BMW recommends a 0W-12, 0W-20 or 0W-30 oil equivalent to or superior to the oil used for certification testing. BMW dealers are required to use this oil as part of the maintenance package included with each new vehicle. This approach is used to ensure that the oil used in certification test vehicles is no more fuel efficient than the oil that is used as the factory fill, or the oil recommended to the vehicle owner.

Leak free exhaust system

Based on our engineering analysis of the complete exhaust system we state as the manufacturer, that the exhaust system installed on any vehicles covered by this application comply with the requirements of § 86.1844-01(d)(16). The analysis covers the exhaust system and all related attached components from the engine block manifold gasket surface to a point sufficiently past the last catalyst and oxygen sensor in the system to assure that air will not reach the oxygen sensors under normal operating conditions.

OBD system

According to 40 CFR 86.1844-01 (d)(9)(iv) we confirm that the emission control diagnostic system installed on any vehicles included in this application is adequate for the performance warranty test described in 40 CFR Part 85 subpart W.

9. OBD System Description

The OBD System Description of this Test Group, MY 2027 has been uploaded separately to EV-CIS.

10. Description of Alternate-fueled Vehicles

not applicable

11. Auxiliary Emission Control Devices (AECD) descriptions

Confidential Information: Please refer to uploaded AECD document in EV-CIS

12. Description of vehicles and test parameters covered by certificate

12.1. Vehicle Parameters

12.1.1. Vehicle Information

Model Name	Carline	Trans	Vehicle Class	VCW [lbs]	ETW [lbs]	GVW [lbs]	Tank [gal]	Canister Working Capacity [g]	Canister Bed Volume [ccm]	Hydrocarb on Trap - Fleece
Countryman S ALL4	--	AMS	LDT 2	3777	4000	4949	14.3	120	2074	--
Countryman S ALL4	427	AMS	LDT 2	3777	4000	4949	14.3	120	2074	No

12.1.2. Drive Train Information

Model Name	Carline	Trans-Type (-drive Sys.)	# Gears	Axle ratio		Engine Code	hp / rpm	ft-lb / rpm
				front	rear			
Countryman S ALL4	--	AMS (A)	7	3.94	3.94	B48A20O2U25X	241 / 4500	295 / 1500 - 4000
Countryman S ALL4	427	AMS (A)	7	3.94	3.94	B48A20O2U25X	241 / 4500	295 / 1500 - 4000

12.1.3. Tire Information

Modell	Carline	Trans	Road Load CFG	Tire Front		Tire Rear	
Countryman S ALL4	--	AMS	30	worst case represented		worst case represented	
				225/55 R18 102Y STD		225/55 R18 102Y STD	
	427	AMS	31	245/40 R20 99Y STD		245/40 R20 99Y STD	
				245/45 R19 102Y STD		245/45 R19 102Y STD	
				245/45 R19 102H M+S STD		245/45 R19 102H M+S STD	
				225/55 R18 102H M+S STD		225/55 R18 102H M+S STD	
				245/40 R20 99H M+S STD		245/40 R20 99H M+S STD	
				245/35 R21 96Y STD		245/35 R21 96Y STD	
				245/45 R19 102Y STD (HP)		245/45 R19 102Y STD (HP)	
				245/45 R19 102Y STD (HP)		245/45 R19 102Y STD (HP)	

M+S indicates an all season tire and not a dedicated winter tire
RSC indicates a tire with run flat capability
STD indicates a tire without run flat capability

12.1.4. Emission control system description:

- 12.1.4.1. Catalyst TWC, WU-TWC
- 12.1.4.2. Particulate Filter yes
- 12.1.4.3. EGR / EGRC EGR: no
EGRC: not applicable
- 12.1.4.4. Air pump type not applicable
- 12.1.4.5. Fuel system type direct- and intake manifold injection
- 12.1.4.6. Intake air aspiration method exhaust gas turbo charger with charge pressure control via wastegate and intercooler
- 12.1.4.7. Other Charged Air Cooler
- 12.1.5. Number of valves per cylinder 4
- 12.1.6. Engine displacement 1998 cm³

- 12.1.7. Certification Region FA
- 12.1.8. Shift Indicator Light not applicable
- 12.2. Test Parameters
 - 12.2.1. Engine Starting Procedures Refer to Common Section
 - 12.2.2. Shift Schedules not applicable
 - 12.2.3. Dynamometer loading information
 - 12.2.3.1. Sort of dynamometer all wheel roll
 - 12.2.3.2. Electric Dynamometer Coefficients

Modell	Carline	Trans	Road Load CFG	N/V	A [lbf]	B [lbf/mph]	C [lbf/mph ²]	TRLHP	a [lbf]	b [lbf/mph]	c [lbf/mph ²]	Grill Shutter
Countryman S ALL4	--	AMS	30	26.9	38.5	0.047	0.02504	13.8	11.8	-0.072	0.02433	No
Countryman S ALL4	427	AMS	31	26.9	33.7	0.034	0.02460	12.9	7.4	-0.094	0.02398	No
Countryman S ALL4	427	AMS	32	26.9	36.5	0.042	0.02486	13.4	9.7	-0.086	0.02424	No
Countryman S ALL4	427	AMS	33	26.9	38.5	0.047	0.02425	13.5	9.4	-0.079	0.02371	No

Road Load Configuration Description

- X_ means number of FEDV tire groups used for this model
- 30 Road Load for EDV (worst case)
- 31 Road Load for first FEDV configuration
- 32 Road Load for second FEDV configuration
- 33 Road Load for third FEDV configuration

12.4. Information on driver selectable modes

Drive Mode	Default Mode	Function
comfortable	yes	comfortable setting for defined systems (e.g. climatic control, gas pedal progression)
efficiently	no	efficient setting for defined systems (e.g. climatic control, gas pedal progression)
sporty	no	sporty setting for defined systems (e.g. steering, gas pedal progression, shift points, less pure electric drive, e-boost)

Transmission Mode	Default Mode	Function
comfortable	no	standard comfortable vehicle gear operation
sparty	no	sparty setting for shift points

12.5. Modes used for EDV Testing

Test EDV:

VID	CFG	Fuel	FTP	HWY	US06	SC03	Cold CO
7R43669	00	T3E10	TBMX10090990	TBMX10090991	TBMX10090993	TBMX10090992	TBMX10090995
7R43669	01	T2E0	TBMX10091000	TBMX10091001	---	---	---

Drive Mode
T3E10 EDV testing is done in drive mode "Sport" (sparty) and transmission mode "S" (sparty). This is the worst case combination with highest engine revolutions.
T2E0 EDV testing is done in drive mode "Comfort" (comfortable) and transmission mode "D" (comfortable). This represents the default mode.

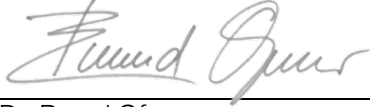
13. Projected Sales

Refer to Common Section for Model Year 2027

14. Request for certification

We herewith apply for the Federal Certificate of conformity for the Test Group VBMXJ02.0M4P.

The mentioned Test Group complies with all applicable regulations contained in 40 Code of Federal Regulations Part 85 and Part 86.



Dr. Bernd Ofner

15. Other Information

15.1. Vehicle Emission Control Information Label

Label according to certification requirements in 40 CFR § 86.1807-01.

The VECI label is attached to the engine hood.

Refer to Section 17, Attachment

Carline	Model Name	VECI Label
427	Countryman S ALL4	see attachment: 03VE-VM4P-01

15.2. Fuel Tank Temperature Profile

Fuel Tank Temperature Profile according to certification requirements in 40 CFR § 86.129-94(d).

Refer to Section 17, Attachment

Carline	Model Name	Evaporative Group	FTTP
427	Countryman S ALL4	VBMXR0120U11	see attachment: FTTP-0U11-01

17. Attachment

- | | | |
|------|--|--|
| 17.1 | Fuel Tank Temperature Profile | see attachment: FTTP-0U11-01 |
| 17.2 | VECI Label | see attachment: 03VE-VM4P-01 |
| 17.3 | Litmus Check | see attachment: 03LC-0M4P-02 |
| 17.4 | Certification Summary Information Report | see attachment:
CSI-VBMXJ02.0M4P-VBMXR0120U11 |

Test Vehicle Data

Ambient Conditions

Test Data

Vehicle Type:	X1 xDrive28i	Weather:	sunny	Date of test:	10/08/2021
Mileage:	745 mi	clouds:	0 %	Engine start:	11:52
Fuel tank volume:	54 L	Wind speed:	0 mph	Measure start:	11:58
Fuel volume:	21,6 L	Ambient temp:		Measure stop:	13:10
		Start:	105 °F	Test track:	Dubai Bab Al shams
		delta:	1 °F		
		Surface temperature:	100 %		

Time [s]	Fuel Temp 1 [°F]	Fuel Temp 2 [°F]	Fuel Temp Average [°F]	Fuel Temp Average Correctet (to95°F) [°F]	Vapor Temp [°F]	Tank pressure [in H ₂ O]
0	89,5	89,5	89,5	95,0	90,0	0,0
30	89,7	89,6	89,7	95,1	90,1	0,0
60	89,8	89,8	89,8	95,3	90,2	0,0
90	90,0	90,0	90,0	95,5	90,4	-0,2
120	90,2	90,1	90,1	95,6	90,5	-0,3
150	90,3	90,3	90,3	95,8	90,7	-0,5
180	90,5	90,5	90,5	96,0	90,9	-0,2
210	90,6	90,6	90,6	96,1	91,1	-0,2
240	90,7	90,8	90,8	96,2	91,3	0,0
270	90,9	90,9	90,9	96,4	91,6	-0,3
300	91,1	91,1	91,1	96,6	91,9	-0,2
330	91,3	91,3	91,3	96,8	92,2	-0,3
360	91,4	91,5	91,4	96,9	92,5	-0,3
390	91,6	91,6	91,6	97,1	92,7	-0,1
420	91,7	91,8	91,8	97,3	92,9	-0,1
450	91,9	91,9	91,9	97,4	93,1	-0,5
480	92,1	92,1	92,1	97,6	93,3	-0,8
510	92,2	92,3	92,2	97,7	93,5	-0,9
540	92,4	92,4	92,4	97,9	93,6	-0,2
570	92,5	92,5	92,5	98,0	93,7	-0,5
600	92,7	92,7	92,7	98,2	93,8	-0,5
630	92,8	92,9	92,8	98,3	94,0	-0,4
660	93,0	93,0	93,0	98,5	94,1	-0,5
690	93,1	93,2	93,1	98,6	94,2	-0,6
720	93,3	93,3	93,3	98,8	94,3	-0,1
750	93,4	93,5	93,4	98,9	94,4	-0,3
780	93,6	93,6	93,6	99,1	94,6	-0,6
810	93,7	93,8	93,8	99,2	94,8	-0,3
840	93,9	93,9	93,9	99,4	95,0	-0,5
870	94,0	94,1	94,0	99,5	95,2	-0,5
900	94,2	94,2	94,2	99,7	95,4	-0,4
930	94,4	94,4	94,4	99,9	95,6	-0,4
960	94,6	94,6	94,6	100,1	95,8	-0,7
990	94,7	94,8	94,8	100,3	95,9	-0,2

1020	94,9	94,9	94,9	100,4	96,1	-0,2
1050	95,0	95,1	95,0	100,5	96,2	-0,5
1080	95,2	95,2	95,2	100,7	96,3	-0,1
1110	95,3	95,4	95,3	100,8	96,4	-0,7
1140	95,5	95,5	95,5	101,0	96,5	-0,1
1170	95,6	95,7	95,6	101,1	96,7	-0,5
1200	95,8	95,8	95,8	101,3	96,8	-1,0
1230	95,9	96,0	95,9	101,4	96,9	-0,1
1260	96,1	96,1	96,1	101,6	97,0	-0,7
1290	96,2	96,3	96,2	101,7	97,1	-0,5
1320	96,4	96,4	96,4	101,9	97,2	-0,3
1350	96,5	96,6	96,5	102,0	97,3	-0,1
1380	96,6	96,7	96,7	102,2	97,4	-0,4
1410	96,8	96,8	96,8	102,3	97,5	-0,4
1440	96,9	96,9	96,9	102,4	97,6	-0,4
1470	97,0	97,0	97,0	102,5	97,6	-0,4
1500	97,1	97,1	97,1	102,6	97,6	-0,4
1530	97,2	97,3	97,2	102,7	97,7	-0,4
1560	97,4	97,4	97,4	102,9	97,7	-0,2
1590	97,5	97,6	97,6	103,1	97,8	-0,5
1620	97,7	97,7	97,7	103,2	97,9	-0,3
1650	97,8	97,9	97,9	103,4	98,0	-0,3
1680	98,0	98,1	98,0	103,5	98,1	-0,1
1710	98,2	98,2	98,2	103,7	98,3	-0,2
1740	98,4	98,4	98,4	103,9	98,4	-0,3
1770	98,5	98,6	98,6	104,1	98,6	-0,2
1800	98,7	98,8	98,8	104,2	98,8	-0,2
1830	98,9	98,9	98,9	104,4	98,9	-0,4
1860	99,0	99,1	99,1	104,6	99,0	-0,4
1890	99,2	99,2	99,2	104,7	99,1	-0,6
1920	99,3	99,4	99,4	104,9	99,2	-0,6
1950	99,5	99,6	99,5	105,0	99,3	-0,4
1980	99,7	99,8	99,7	105,2	99,4	-0,4
2010	99,9	100,0	100,0	105,5	99,5	-0,2
2040	100,1	100,2	100,2	105,6	99,6	-0,4
2070	100,3	100,3	100,3	105,8	99,7	-0,4
2100	100,4	100,5	100,4	105,9	99,7	-0,4
2130	100,5	100,6	100,6	106,1	99,8	-0,4
2160	100,7	100,8	100,7	106,2	99,9	-0,1
2190	100,9	100,9	100,9	106,4	100,0	-0,3
2220	101,0	101,1	101,0	106,5	100,2	-0,4
2250	101,2	101,2	101,2	106,7	100,3	-0,3
2280	101,3	101,3	101,3	106,8	100,4	-0,4
2310	101,4	101,5	101,5	106,9	100,6	-0,2
2340	101,6	101,6	101,6	107,1	100,8	-0,3
2370	101,7	101,8	101,7	107,2	100,9	-0,5
2400	101,8	101,9	101,9	107,4	101,1	-0,1
2430	102,0	102,1	102,0	107,5	101,2	-0,4
2460	102,1	102,2	102,2	107,7	101,3	-0,8
2490	102,3	102,3	102,3	107,8	101,4	-0,5
2520	102,4	102,5	102,4	107,9	101,5	-0,5
2550	102,5	102,6	102,6	108,1	101,6	-0,4
2580	102,7	102,7	102,7	108,2	101,7	-0,4
2610	102,8	102,8	102,8	108,3	101,8	-0,2
2640	102,9	103,0	102,9	108,4	101,9	-0,5
2670	103,0	103,1	103,1	108,6	102,1	-0,4
2700	103,1	103,2	103,2	108,7	102,2	-0,4

2730	103,3	103,3	103,3	108,8	102,3	-0,4
2760	103,4	103,4	103,4	108,9	102,4	-0,4
2790	103,5	103,5	103,5	109,0	102,5	-0,4
2820	103,5	103,6	103,6	109,1	102,6	-0,4
2850	103,6	103,7	103,7	109,2	102,7	-0,2
2880	103,8	103,8	103,8	109,3	102,8	-0,2
2910	103,9	104,0	103,9	109,4	103,0	-0,2
2940	104,0	104,1	104,1	109,6	103,2	-0,3
2970	104,2	104,2	104,2	109,7	103,3	-0,4
3000	104,3	104,4	104,3	109,8	103,5	-0,4
3030	104,4	104,5	104,5	110,0	103,7	-0,2
3060	104,6	104,7	104,6	110,1	103,9	-0,3
3090	104,7	104,8	104,8	110,3	104,2	-0,4
3120	104,9	104,9	104,9	110,4	104,4	-0,1
3150	105,0	105,1	105,0	110,5	104,5	-0,3
3180	105,1	105,2	105,2	110,7	104,7	-0,7
3210	105,3	105,4	105,3	110,8	104,8	-0,4
3240	105,4	105,5	105,5	111,0	105,0	-0,3
3270	105,6	105,6	105,6	111,1	105,1	-0,6
3300	105,7	105,8	105,7	111,2	105,3	-0,6
3330	105,8	105,9	105,9	111,3	105,4	-1,0
3360	105,9	106,0	106,0	111,5	105,6	-0,2
3390	106,1	106,1	106,1	111,6	105,7	-0,2
3420	106,2	106,3	106,2	111,7	105,8	-0,5
3450	106,3	106,4	106,3	111,8	105,9	-0,4
3480	106,4	106,5	106,5	112,0	106,0	-0,1
3510	106,6	106,6	106,6	112,1	106,2	-0,3
3540	106,7	106,8	106,7	112,2	106,3	-0,4
3570	106,9	106,9	106,9	112,4	106,4	-0,2
3600	107,0	107,1	107,0	112,5	106,6	-0,2
3630	107,1	107,2	107,1	112,6	106,7	-0,1
3660	107,2	107,3	107,3	112,8	106,9	-0,6
3690	107,4	107,5	107,4	112,9	107,0	-0,5
3720	107,5	107,6	107,6	113,1	107,2	-0,3
3750	107,7	107,7	107,7	113,2	107,4	-0,5
3780	107,8	107,9	107,8	113,3	107,5	-0,5
3810	107,9	108,0	108,0	113,5	107,7	-0,5
3840	108,1	108,1	108,1	113,6	107,8	-0,2
3870	108,2	108,3	108,2	113,7	107,9	-0,5
3900	108,3	108,4	108,4	113,8	108,0	-0,3
3930	108,4	108,5	108,5	114,0	108,1	-0,7
3960	108,6	108,6	108,6	114,1	108,2	-0,2
3990	108,7	108,8	108,7	114,2	108,3	-0,3
4020	108,8	108,9	108,9	114,3	108,4	-0,6
4050	108,9	109,0	109,0	114,5	108,4	-0,2
4080	109,0	109,1	109,1	114,6	108,5	-0,4
4110	109,1	109,2	109,2	114,7	108,6	-0,7
4140	109,3	109,4	109,3	114,8	108,7	-0,4
4170	109,4	109,5	109,4	114,9	108,8	-0,1
4200	109,5	109,6	109,5	115,0	108,9	-0,4
4230	109,6	109,7	109,6	115,1	109,0	-0,4
4260	109,7	109,8	109,7	115,2	109,1	-0,4
4290	109,8	109,8	109,8	115,3	109,1	-0,4
4320	109,8	109,9	109,9	115,4	109,2	-0,4

BMW

Designation



Attachment

**VECI Label LDT, VBMXJ02.0M4P,
VBMXR0120U11**

Date: 03.12.2025

03VE-VM4P-01

DRAFT - Inverted Representation

		Bayerische Motoren Werke AG	
VEHICLE EMISSION CONTROL INFORMATION			
Conforms to regulations:		MY 2027	
U.S. EPA:	Interim Tier 4 - Bin 20 LDT	CA OBD II	
EVAP:	Tier 3 - 300 LDT	Fuel: gasoline	
California:	Conforms to U.S. EPA regulations and is certified for sale in California	CA OBD II Fuel: gasoline	
No adjustments needed.		WU-TWC+GPF, TWC, WR-HO2S, HO2S, DFI, MFI, TC, CAC	
Group:	VBMXJ02.0M4P		8 898 367
Evap:	VBMXR0120U11		

Original representation

Base: Black
Characters: Silver

Enclosure to Certification Summary Information Report

Test	Test Number	Test Procedure	Man FE	FE Bag1	FE Bag2	FE Bag3
FTP75	TBMX10090990	31	21.1	22.1	19.1	24.9
HWFET	TBMX10090991	3	34.0			
US06	TBMX10090993	90		16.4	28.8	
SC03	TBMX10090992	95		18.6		
Cold CO	TBMX10090995	11		18.9	17.8	23.2

Model Specific Calculation (5 Cycle)

City	[mi/gallon]	Highway	[mi/gallon]
Start FC	0.0018	Start FC	0.0001
Start Fuel 75	0.0183	Start Fuel 75	0.0183
Start Fuel 20	0.0353	Start Fuel 20	0.0353
Running FC	0.0498	Running FC	0.0343
Label City (5 Cycle)	17.5	Label Highway (5 Cycle)	26.3

Derived Calculation (2 Cycle)

Label City (2 Cycle)	16.9	Label Highway (2 Cycle)	24.2
Threshold (96% Derived MPG - 2 Cycle)	16.2	Threshold (95% Derived MPG - 2 Cycle)	23

Model Specific Calculation Label City (5 Cycle)	Threshold City (96% Derived MPG - 2 Cycle)	Model Specific Calculation Label Highway (5 Cycle)	Threshold HWY (95% Derived MPG - 2 Cycle)
17.5	16.2	26.3	23

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	11/19/2025 10:41:05 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE				
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)	120	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	--						
Leak Family Details							
Leak Family Indicator	No						
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	--						
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
BMW	2 - Mini	427 - Countryman S ALL4	Federal	All Wheel Drive	Automated Manual- Selectable (e.g. Automated Manual with paddles)	7	No
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-20			
Number of Cylinders/Rotors	4		Mechanically Variable Compression Ratio Indicator	N			

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family			VBMXR0120U11								
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		Other		non coated		Ceramic		Monolith								
3		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
Mfr After Treatment Device (ATD) Comments		After Treatment Device #2: non coated particular filter (GPF)														
Direct Ozone Reduction (DOR) Device		Not Equipped														
Mfr Emission Control Device Comments		--														
Engine Configuration Number 1																
Engine Displacement (liters)		2.0			Engine Rated Horsepower			241								
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		Variable Valve Timing at inlet and outlet valves														
Variable Valve Lift?		Yes														
Variable Valve Lift System Description		Variable Valve Lift at inlet valves														
Number of Knock Sensors		2			Number of Air/Fuel Sensors			2								
Air/Fuel Sensor # 1 Type		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		No			Cooled Exhaust Gas Recirculation			No								
EGR Type		--			Exhaust Gas Recirculation Description if 'Other'			--								
Closed Loop Air Injection System		No														
Air Injection Type		--			Air Injection Type if 'Other'			--								
Mfr Engine Configuration Comments		--														
Official Test Numbers																
Test Group		FTP		US06		SC03		Cold CO		Highway		EPA City	EPA City	EPA Highway	EPA Highway	CREE
Fuel												Litmus Value	Litmus Threshold	Litmus Value	Litmus Threshold	Weighting Factor
Gasoline		TBMX10090990		TBMX10090993		TBMX10090992		TBMX10090995		TBMX10090991		20.6	228.2	35.5	286.1	--

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	TBMX10090990	TBMX10090993	TBMX10090992

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Emission Data Vehicle Information

Vehicle ID / Configuration	5U31826 / 4	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SBMXT02.0B48	Original Evaporative/Refueling Family	SBMXR0120U11
Original Test Vehicle Model Year	2025		
Vehicle Model			
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	X1 xDrive28i

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	1	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	B48A2002U11X	Rated Horsepower	241
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	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3750	Equivalent Test Weight (pounds)	4000
GVWR (lbs)	4850	N/V Ratio	26.9
Axle Ratio	3.94		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7
Transmission Lockup	No	Creep 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	43	-0.008	0.02301	11.6	0.056	0.02088	13.4

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Emission Control Device Comments --
Manufacturer Test Vehicle Comments vi_5U31826_04_EDV EVAP_X1 xDrive28i_A_ETW-4000_RG30

Test #	SBMX10087472	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SBMX10087471	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/08/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6350	Odometer Units	K
4WD Test Dyno	Yes	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)
HC-TOTAL (Total Hydrocarbon)	0.1287	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.139	--

Manufacturer Test Comments EVAP EDV - 3Day, X1 xDrive28i

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	0.1390	0.0000	0.139	0.300	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	SBMX10087473	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SBMX10087471	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/08/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6322	Odometer Units	K
4WD Test Dyno	Yes	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)
HC (Hydrocarbon for Running Loss and ORVR)	0.0002	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0002	--

Manufacturer Test Comments EVAP EDV - Running Loss, X1 xDrive28i

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

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Emission Data Vehicle Information

Vehicle ID / Configuration	5U31827 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	PBMXT02.0B48	Original Evaporative/Refueling Family	PBMXR0120U11
Original Test Vehicle Model Year	2023		
Vehicle Model			
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	X1 xDrive28i

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 -- Initial	1	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	B48A2002U11X	Rated Horsepower	241
Displacement (liters)	2	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Turbocharged	Air Aspiration Device Configuration	Single
Number of Air Aspiration Devices	1	Drive Mode While Testing	All Wheel Drive
Charge Air Cooler Type	Air	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	4000
Curb Weight (lbs)	3750	N/V Ratio	26.9
GVWR (lbs)	4850		
Axle Ratio	3.94		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7
Transmission Lockup	No	Creep 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	43	-0.008	0.02301	10	0.004	0.0211	13.4

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Emission Control Device Comments --
Manufacturer Test Vehicle Comments 5U31827_00_EDV_EVAP_X1 xDrive28i_A_ETW-4000_RG30

Test #	PBMX10075602	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	PBMX10075600	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/06/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3539	Odometer Units	K
4WD Test Dyno	Yes	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	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.175369	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.189398	--

Manufacturer Test Comments 00_X1 xDrive28i_2-day_EDV_MY23

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	0.1894	0.0000	0.189	0.300	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	PBMX10075859	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	PBMX10075858	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/14/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3685	Odometer Units	K
4WD Test Dyno	Yes	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)
HC (Hydrocarbon for Running Loss and ORVR)	0.10044	--

Manufacturer Test Comments EVAP EDV, ORVR, X1 xDrive28i, MY23

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	0.100	0.000	0.10	0.20	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Test #	PBMX10075679	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/02/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	0	Odometer Units	K
4WD Test Dyno	Yes	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)
HC-TOTAL (Total Hydrocarbon)	0.01395	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.015066	--

Manufacturer Test Comments BLEED_5U31827_00_EDV_EVAP_X1 xDrive28i_A_ETW-4000_RG30 – tested with a stick car

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	0.0151	0.0000	0.015	0.020	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Test #	PBMX10075680	Test Procedure	67 - Leak Test - Port Near Canister
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/14/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3569	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
LEAK-DIA (Effective Leak Diameter (inches))	0.013	--

Manufacturer Test Comments LEAK_5U31827_00_EDV_EVAP_X1 xDrive28i_A_ETW-4000_RG30

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	LEAK-DIA	0.013	0.000	0.01	0.02	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11						
Emission Data Vehicle Information									
Vehicle ID / Configuration	7R43669 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TBMXJ02.0M4P	Original Evaporative/Refueling Family	TBMXR0120U11						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	Mini	Represented Test Vehicle Model	Countryman S ALL4						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	1	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	B48A2002U25X	Rated Horsepower	241						
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	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3777	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4949	N/V Ratio	26.9						
Axle Ratio	3.94								
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family			VBMXR0120U11
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	38.5	0.047	0.02504	11.8	-0.072	0.02433	13.8	
Cold CO	42.3	0.052	0.02755	-2.3	-0.128	0.02641	N/A	
US06	38.5	0.047	0.02504	11.8	-0.072	0.02433	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	vi_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30							

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090990	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/26/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3645	Odometer Units	K
4WD Test Dyno	Yes	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)	390.2050398	--
FE BAG 1 (Bag 1 Fuel Economy)	22.1447818	22.1447818
CO2 BAG 2 (Bag 2 Carbon Dioxide)	452.0242347	--
FE BAG 2 (Bag 2 Fuel Economy)	19.1152167	19.1152167
CO2 BAG 3 (Bag 3 Carbon Dioxide)	347.0154959	--
FE BAG 3 (Bag 3 Fuel Economy)	24.910167	24.910167
METHANE (CH4 - Methane)	0.00063	--
CO (Carbon Monoxide)	0.1539799	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.2096623	--
DT-EER (Drive Trace Energy Economy Rating)	-0.8053847	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.2978289	--
MFR FE (Manufacturer Fuel Economy)	21.0742309	21.0742309
NOX (Nitrogen Oxide)	0.001374	--
N2O (Nitrous Oxide)	0.0003635	--
HC-NM (Non-methane Hydrocarbon)	0.005516	--
NMOG (Non-methane organic gases)	0.0060676	--
PM (Particulate Matter)	0.000173	--
HC-TOTAL (Total Hydrocarbon)	0.0061303	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	410.2538257	999

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	410.4799081	--

Manufacturer Test Comments 01_FTP_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Other	CREE	999	--	--	--	0.1	--	999	--	--
Fed	120,000 miles	Other	METHANE	0.0006	--	--	--	0.0008	--	0.001	0.030	Pass
Fed	120,000 miles	Other	N2O	0.0004	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Other	CO	0.15	--	--	--	0.10	--	0.2	1.0	Pass
Fed	150,000 miles	Other	CO-COMP	0.24	--	--	--	--	--	0.2	4.2	Pass
Fed	150,000 miles	Other	NMOG	0.0061	--	1.10	--	0.0032	--	0.009	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0075	--	--	--	--	--	0.014	0.020	Pass
Fed	150,000 miles	Other	NMOG+NOX-COMP	0.0107	--	--	--	--	--	0.011	0.040	Pass
Fed	150,000 miles	Other	NOX	0.0014	--	--	--	0.0033	--	0.005	999.999	Pass
Fed	150,000 miles	Other	PM	0.0002	--	--	--	0.0000	--	0.000	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	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090995	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	03/07/2025	Fuel	Gasoline
Fuel Batch ID	COE10	Fuel Calibration Number	56
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2393	Odometer Units	K
4WD Test Dyno	Yes	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)	456.2530341	--
FE BAG 1 (Bag 1 Fuel Economy)	18.8586537	18.8586537
CO2 BAG 2 (Bag 2 Carbon Dioxide)	484.745912	--
FE BAG 2 (Bag 2 Fuel Economy)	17.7757937	17.7757937
CO2 BAG 3 (Bag 3 Carbon Dioxide)	371.6588082	--
FE BAG 3 (Bag 3 Fuel Economy)	23.1728552	23.1728552
METHANE (CH4 - Methane)	0.0024848	--
CO (Carbon Monoxide)	0.1828363	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.4713676	--
DT-EER (Drive Trace Energy Economy Rating)	-1.4728819	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.33342	--
MFR FE (Manufacturer Fuel Economy)	19.2335069	19.2335069
HC-NM (Non-methane Hydrocarbon)	0.0179871	--
HC-TOTAL (Total Hydrocarbon)	0.0203925	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	447.8148531	--

Manufacturer Test Comments

06_FTFCOLD_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	------------------------------	--------------

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	Other	CO	0.18	--	--	--	0.03	--	0.2	10.0	Pass
Fed	120,000 miles	Other	HC-NM	0.02	--	--	--	0.0000	--	0.0	0.3	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090991	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/26/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3662	Odometer Units	K
4WD Test Dyno	Yes	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)	0.00044	--
CO (Carbon Monoxide)	0.0381	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.461	--
DT-EER (Drive Trace Energy Economy Rating)	0.322	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.741	--
MFR FE (Manufacturer Fuel Economy)	34	34
NOX (Nitrogen Oxide)	0.00124	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	254	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	253.686	--

Manufacturer Test Comments

02_HWFET_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Summary Information Report

Test Group		VBMXJ02.0M4P				Evaporative/Refueling Family				VBMXR0120U11		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Other	CREE	999	--	--	--	0.1	--	999	--	--
Fed	150,000 miles	Other	NMOG	0.0000	--	1.03	--	0.0032	--	0.003	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0012	--	--	--	--	--	0.008	0.020	Pass
Fed	150,000 miles	Other	NOX	0.0012	--	--	--	0.0033	--	0.004	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	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090993	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/26/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3695	Odometer Units	K
4WD Test Dyno	Yes	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)	526.8519693	--
FE BAG 1 (Bag 1 Fuel Economy)	16.3953979	16.3953979
CO2 BAG 2 (Bag 2 Carbon Dioxide)	300.3202829	--
FE BAG 2 (Bag 2 Fuel Economy)	28.8011804	28.8011804
METHANE (CH4 - Methane)	0.0002325	--
CO (Carbon Monoxide)	0.1370507	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.3490849	--
DT-EER (Drive Trace Energy Economy Rating)	-1.7400784	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.5034665	--
MFR FE (Manufacturer Fuel Economy)	24.686726	24.686726
NOX (Nitrogen Oxide)	0.0022595	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
PM (Particulate Matter)	0.000442	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	350.4648237	--

Manufacturer Test Comments

03_US06_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	------------------------------	--------------

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	Other	CO	0.1371	--	--	--	0.10	--	0.237	999.999	Pass
Fed	150,000 miles	Other	NMOG	0.0000	--	1.03	--	0.0032	--	0.003	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0023	--	--	--	0.0033	--	0.006	999.999	Pass
Fed	150,000 miles	Other	PM	0.0004	--	--	--	0.0000	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090992	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/25/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4142	Odometer Units	K
4WD Test Dyno	Yes	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)	0.0004568	--
CO (Carbon Monoxide)	0.1331274	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.1172223	--
DT-EER (Drive Trace Energy Economy Rating)	-1.1376271	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.818622	--
MFR FE (Manufacturer Fuel Economy)	18.5848006	18.5848006
NOX (Nitrogen Oxide)	0.0020231	--
HC-NM (Non-methane Hydrocarbon)	0.0004231	--
NMOG (Non-methane organic gases)	0.0004357	--
HC-TOTAL (Total Hydrocarbon)	0.0008684	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	465.1668523	--

Manufacturer Test Comments 04_SC03_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification		Pass/Fail
										Level	Standard	
Fed	150,000 miles	Other	CO	0.1331	--	--	--	0.10	--	0.233	999.999	Pass
Fed	150,000 miles	Other	NMOG	0.0004	--	1.03	--	0.0032	--	0.004	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0020	--	--	--	0.0033	--	0.005	999.999	Pass

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family			VBMXR0120U11
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	38.5	0.047	0.02425	9.4	-0.079	0.02371	13.5	
US06	38.5	0.047	0.02425	9.4	-0.079	0.02371	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	vi_7R43669_01_FEDV_Countryman S ALL4_A_ETW-4000_RG33							

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10091000	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	04/16/2025	Fuel	Gasoline
Fuel Batch ID	T2/E0	Fuel Calibration Number	57
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4598	Odometer Units	K
4WD Test Dyno	Yes	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)	297.4587602	--
FE BAG 1 (Bag 1 Fuel Economy)	29.3782761	29.3782761
CO2 BAG 2 (Bag 2 Carbon Dioxide)	283.2450224	--
FE BAG 2 (Bag 2 Fuel Economy)	30.9013603	30.9013603
CO2 BAG 3 (Bag 3 Carbon Dioxide)	259.1662474	--
FE BAG 3 (Bag 3 Fuel Economy)	33.7791736	33.7791736
METHANE (CH4 - Methane)	0.0011847	--
CO (Carbon Monoxide)	0.25814	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.1589958	--
DT-EER (Drive Trace Energy Economy Rating)	-1.7671813	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.7532392	--
MFR FE (Manufacturer Fuel Economy)	31.2201413	31.2201413
NOX (Nitrogen Oxide)	0.0015453	--
N2O (Nitrous Oxide)	0.0003583	--
HC-NM (Non-methane Hydrocarbon)	0.0082745	--
NMOG (Non-methane organic gases)	0.0086055	--
HC-TOTAL (Total Hydrocarbon)	0.0094257	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	280.4368775	280

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	279.5799871	--

Manufacturer Test Comments 01_FTP_7R43669_01_FEDV_Countryman S ALL4_A_ETW-4000_RG33_default mode_D_on

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Other	CREE	280	--	--	--	0.1	--	280	--	--
Fed	120,000 miles	Other	METHANE	0.0012	--	--	--	0.0008	--	0.002	0.030	Pass
Fed	120,000 miles	Other	N2O	0.0004	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Other	CO	0.26	--	--	--	0.10	--	0.4	1.0	Pass
Fed	150,000 miles	Other	NMOG	0.0086	--	1.10	--	0.0032	--	0.012	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0101	--	--	--	--	--	0.017	0.020	Pass
Fed	150,000 miles	Other	NOX	0.0015	--	--	--	0.0033	--	0.005	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	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10091001	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	04/16/2025	Fuel	Gasoline
Fuel Batch ID	T2/E0	Fuel Calibration Number	57
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4616	Odometer Units	K
4WD Test Dyno	Yes	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	--
CO (Carbon Monoxide)	0.0096922	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.3738243	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6405013	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.7896183	--
MFR FE (Manufacturer Fuel Economy)	46.8157579	46.8157579
NOX (Nitrogen Oxide)	0.0011763	--
HC-NM (Non-methane Hydrocarbon)	0.0002341	--
NMOG (Non-methane organic gases)	0.0002411	--
HC-TOTAL (Total Hydrocarbon)	0.0002341	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	187.0157099	187

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	186.5639031	--

Manufacturer Test Comments

02_HWFET_7R43669_01_FEDV_Countryman S ALL4_A_ETW-4000_RG33_default mode_D_on

Certification Summary Information Report

Test Group		VBMXJ02.0M4P				Evaporative/Refueling Family				VBMXR0120U11		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Other	CREE	187	--	--	--	0.1	--	187	--	--
Fed	150,000 miles	Other	NMOG	0.0002	--	1.03	--	0.0032	--	0.003	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0014	--	--	--	--	--	0.008	0.020	Pass
Fed	150,000 miles	Other	NOX	0.0012	--	--	--	0.0033	--	0.004	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	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Fuel Properties			
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/25/2024
Fuel Batch Calibration Effective Date	01/22/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.827	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17975
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	T10/87	Fuel Calibration Number	26
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/21/2021
Fuel Batch Calibration Effective Date	11/04/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.825	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18229
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	T10/87	Fuel Calibration Number	43
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/27/2023
Fuel Batch Calibration Effective Date	02/27/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.827	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.746
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17962
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	T2/E0	Fuel Calibration Number	57
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/26/2024
Fuel Batch Calibration Effective Date	12/11/2024	Fuel Batch Calibration Ineffective Date	--

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.862	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.737
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18727
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.862	Weight Fraction CO2	--
Fuel Batch ID	COE10	Fuel Calibration Number	56
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	05/17/2024
Fuel Batch Calibration Effective Date	07/30/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.826	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18001
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	--

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
-------------------	--------------	-------------------------------------	--------------

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Other
Fuel	Gasoline	Test Procedure	Federal fuel 3-day exhaust

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.1	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010
150,000 miles	CO	--	--	--	0.0000	--	--	0.10	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	0.0000	--	--	0.0032	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0033	999.999
150,000 miles	PM	--	--	--	0.0000	--	--	0.0000	0.003

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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	--	--	--	0.0000	--	--	0.10	999.999
150,000 miles	NMOG	--	--	1.03	0.0000	--	--	0.0032	999.999
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0033	999.999

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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	--	--	--	0.0000	--	--	0.03	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0000	0.3

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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
120,000 miles	CREE	--	--	--	--	--	--	0.1	999
150,000 miles	NMOG	--	--	1.03	0.0000	--	--	0.0032	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0033	999.999

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Other
Fuel	Gasoline	Test Procedure	Federal 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
120,000 miles	CREE	--	--	--	--	--	--	0.1	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010
150,000 miles	CO	--	--	--	0.0000	--	--	0.10	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	0.0000	--	--	0.0032	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0033	999.999
150,000 miles	PM	--	--	--	0.0000	--	--	0.0000	0.003

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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	--	--	--	0.0000	--	--	0.10	999.999
150,000 miles	NMOG	--	--	1.03	0.0000	--	--	0.0032	999.999
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0033	999.999
150,000 miles	PM	--	--	--	0.0000	--	--	0.0000	0.006

Evaporative/Refueling Standards

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Leak Test - Port Near Canister		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0.000

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Federal Fuel Running Loss		

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

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000

Certification Summary Information Report

Test Group	VBMXJ02.0M4P		Evaporative/Refueling Family	VBMXR0120U11	
Evaporative/Refueling Family	VBMXR0120U11		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	VBMXR0120U11		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

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		
Certification Region			

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family		VBMXR0120U11
CA	California + CAA Section 177 states	FA	Federal	
Exhaust Emission Standard Level				
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125	

Certification Summary Information Report

Test Group		VBMXJ02.0M4P	Evaporative/Refueling Family		VBMXR0120U11
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
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	
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	