

Application for Certification

Model Year: 2027
Manufacturer Name: BMW

Test Group: VBMXV03.0B5P
Test Group Description: in-line 6-cylinder, 4-stroke, 3.0 Liter, gasoline

Durability Group: VBMXHHGVNV2P
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: VBMXR0150G6F

Applicable Standards: EPA
FTP Standard: Interim Tier 4 - Bin 30
SFTP Standard: Interim Tier 4 composite - 0.050
EVAP FEL: Tier 3 - 350

Vehicle Classes Covered: EPA
LDV

Carlines Covered: 540i xDrive Sedan, M240i Coupe, M240i xDrive Coupe, M440i
Convertible, M440i Coupe, M440i Gran Coupe, M440i xDrive
Convertible, M440i xDrive Coupe, M440i xDrive Gran Coupe

Test EDV:

VID	CFG	Fuel	FTP	HWY	US06	SC03	Cold CO
9T75001	00	T3E10	SBMX10086438	SBMX10086439	SBMX10086441	SBMX10086440	SBMX10086444
9T75001	02	T2E0	SBMX10086451	SBMX10086449	---	---	---

Test EDV EVAP:

Family	VID	CFG	Fuel	3-day	RL	2-day	ORVR	BTP	Leak
R0150G6F	9T75018	00	T3E10	SBMX10085519	SBMX10085522	SBMX10085517	SBMX10085523	SBMX10085524	SBMX10085525

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

Table of Changes

Revision / Running Change No.	Date	Section	Description of Change
27-V03.0B5P-01	04/21/2026	---	New models added: M440i Gran Coupe M440i xDrive Gran Coupe M240i Coupe M240i xDrive Coupe
		7	CSI: CH4 and N2O Emission Compliance Check for applicable test procedures removed due to Final Rule: Rescission of the Greenhouse Gas Endangerment Finding and Motor Vehicle Greenhouse Gas Emission Standards Under the Clean Air Act Federal Emission Standard updated to "Tier 3 BIN 30", which represents the corresponding Interim Tier 4 BIN 30
Revision 1	05/06/2026	8	Emission Warranty Statement added

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	VBMXHHGVNV2P
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	Palladium Rhodium
2.10.	Precious Metal Loading	Refer to Section 16, Confidential Information
2.11.	Range of Catalyst Grouping Statistics	6.3 - 4.7

3. Evaporative / Refueling Family Description

- 3.1. Evaporative / Refueling Family Name VBMXR0150G6F
- 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: 150 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 VBMXR0150G6F

ORVR safety application is carried over from previous model year.

This evaporative / refueling family was first certified for model year 2025.

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] =	855.9	---
calculated tref [h] =	120.0	---
effective tref [h] =	120.0	---

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	VBMXV03.0B5P
5.2.	Engine information	
5.2.1.	Engine displacement	2998 cm ³
5.2.2.	Arrangement of cylinders	in line
5.2.3.	Number of cylinders	6
5.3.	Hybrid Electric Vehicle System Description	
5.3.1.	Electric Motor	Refer to Section 12
5.3.2.	Battery	Refer to Section 12
5.4.	Vehicle class	EPA LDV
5.5.	Emission standards class	Interim Tier 4 - Bin 30
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
9T75001	00	--	X3 M50i xDrive	SA-8	EDV	T3E10	---	20	refer to section 12	refer to section 12	refer to section 12	4750
8F87625	00	355	M240i xDrive Coupe	SA-8	FEDV	T2E0	---	21	D	default mode	---	4250
8F87625	01	355	M240i xDrive Coupe	SA-8	FEDV	T2E0	---	22	D	default mode	---	4250
8F87628	00	379	M240i Coupe	SA-8	FEDV	T2E0	---	21	D	default mode	---	4250
8F87628	01	379	M240i Coupe	SA-8	FEDV	T2E0	---	22	D	default mode	---	4250
CN52573	00	310	M440i xDrive Coupe	SA-8	FEDV	T2E0	---	21	D	default mode	---	4250
CN52573	01	310	M440i xDrive Coupe	SA-8	FEDV	T2E0	---	22	D	default mode	---	4250
CN52582	00	350	M440i Coupe	SA-8	FEDV	T2E0	---	21	D	default mode	---	4250
CN52582	01	350	M440i Coupe	SA-8	FEDV	T2E0	---	22	D	default mode	---	4250
CN52582	02	311	M440i Convertible	SA-8	FEDV	T2E0	---	21	D	default mode	---	4500
CN52582	03	311	M440i Convertible	SA-8	FEDV	T2E0	---	22	D	default mode	---	4500
CN52584	01	351	M440i xDrive Convertible	SA-8	FEDV	T2E0	---	21	D	default mode	---	4750
CN52584	02	351	M440i xDrive Convertible	SA-8	FEDV	T2E0	---	22	D	default mode	---	4750
CS78994	00	353	540i xDrive Sedan	SA-8	FEDV	T2E0	---	31	D	default mode	---	4750
CS78994	01	353	540i xDrive Sedan	SA-8	FEDV	T2E0	---	32	D	default mode	---	4750
CS78994	02	353	540i xDrive Sedan	SA-8	FEDV	T2E0	---	33	D	default mode	---	4750
FR78456	00	354	M440i xDrive Gran Coupe	SA-8	FEDV	T2E0	---	11	D	default mode	---	4500
FR78457	00	380	M440i Gran Coupe	SA-8	FEDV	T2E0	---	11	D	default mode	---	4500
9T75013	---	---	X3 M50i xDrive	---	DDV	T3E10	---	---	---	---	---	5000

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
11	Road Load for FEDV configuration
20	Road Load for EDV (worst case)
21	Road Load for first FEDV configuration
22	Road Load for second FEDV configuration
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
9T75018	00	X3 xDrive30i	EDV EVAP	T3E10	R0150G6F

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-VBMXV03.0B5P-VBMXR0150G6F

7.2. Litmus Check

see attachment: 03LC-0B5P-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 submitted, as described in 40 CFR §86.1806-27, §86.1811-27, §86.1829-15 and §86.1865-12. The sections below identify the standards for which BMW uses statements instead of completing emission testing and submitting test data.

Evaporative Leak-Detection

According to §86.1806-17(b)(1)(vi), BMW as the manufacturer states that, consistent with good engineering judgement, for test groups not selected for OBD demonstration testing, all vehicles included in this application comply with the applicable leak monitoring requirement.

HCHO emission compliance

Based on an engineering evaluation of appropriate HCHO emissions, BMW states that all light-duty vehicles included in this application comply with the applicable HCHO emission standards. According to 40 CFR §86.1829-15 (d) (4), BMW uses this statement instead of submitting test data.

High-altitude exhaust and evaporative emissions compliance

Based on an engineering evaluation of appropriate high-altitude emission tests, BMW states 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), BMW uses this statement instead of submitting test data. According to 40 CFR §86.1865-12 (h) (3), BMW states that all vehicles included in this application are using their low altitude hardware and software emission control strategies similarly across all altitudes for in-use operation. According to 40 CFR §86.1811-27(c)(4) for Tier 4 vehicles, BMW states 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.

Spitback Testing

BMW states that all vehicles included in this application do not exceed the fuel dispensing spitback standard of 1.0g THCE, as required per §86.1813-17 (c). According to 40 CFR §86.1829-15 (e) (5), BMW uses this statement instead of submitting test data.

8.2 Compliance Statements**"Lean-on-cruise" calibration strategies**

There are no "Lean-on-cruise" calibration strategies, as specified in 40 CFR §86.1811-17 (d)(4), incorporated into the design of vehicles included in this application.

91RON-Statement

According to VPCD 97-01, BMW states that differences in city and highway fuel economy test results comparing 91 RON operation and 96 RON operation are not exceeding $\pm 3\%$. Emission standards are met in both 91 RON and 96 RON operation, as demonstrated via certification testing. EDV testing is performed using Tier 3 E10 fuel with 91 RON, FEDV testing is performed using Tier 2 E0 fuel with 96 RON.

A/C-on specific calibrations-Statement

According to 40 CFR §86.1811-27(d), BMW as the manufacturer states that vehicles included in

this application do not use A/ C-on specific calibrations that differ from A/C-off calibrations for a given set of engine operating conditions, which would unnecessarily reduce emission control system 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

According to 40 CFR §86.1809-12 (c) and based on engineering evaluations of emission test results between 25°F and 68°F, BMW states that for all vehicles included in this application, the guideline for CO, NMHC or NMOG+N0x (as applicable) emission congruity in the intermediate temperature range is fulfilled.

Corporate Average Fuel Economy Calculation

Since the 2007 model year and in accordance with Dear Manufacturer letter CISC-09-19, BMW uses customer data to analyze whether predominance criteria are met regarding a certain operation mode of 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 test results between 20°F and 86°F, BMW states that for all vehicles included in this application, discontinuity of emissions of NMOG, PM, CO, CO₂, N₂O, NO_x, CH₄, HCHO emissions on the FTP and Highway tests does not occur when tested at temperatures ranging from 20°F to 86°F.

Emission Warranty Statement

BMW as the manufacturer states that it will meet the emission performance and defect warranty requirements as described in 40 CFR §85.2103.

Engine Oil used for Certification Testing

Based on guidance letters CISC-2008-11, CISC-10-11 and CD-2020-03 BMW confirms that vehicles included in this application fulfill the "representativeness" requirements as specified in 40 CFR 600.007(b)(6) with regards to engine oils used in the respective test vehicles. BMW uses the factory-fill oil for mileage accumulation, durability, emission and fuel economy testing. The specific oil's SAE viscosity grade used is included in the CSI information of each application. BMW uses non-API-registered, fully synthetic oils. For factory fill, 5W-30, 0W-12, 0W-20, and 0W-30 oils are used (viscosity grades vary depending on engine variants). For maintenance, BMW recommends a 0W-12, 0W-20 or 0W-30 oil which is 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 not more fuel efficient than the oil used for factory fill, or the oil recommended to the vehicle owner.

Leak free exhaust system

Based on an engineering analysis of the complete exhaust system, BMW as the manufacturer states that the exhaust systems installed on any vehicles included in this application comply with the requirements set forth in § 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), BMW states that the emission control diagnostic system installed on any vehicle 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
540i xDrive Sedan	353	SA	LDV	4370	4750	5534	15.9	150	2600	No
M240i Coupe	379	SA	LDV	3854	4250	4795	13.7	150	2600	No
M240i xDrive Coupe	355	SA	LDV	3964	4250	4916	13.7	150	2600	No
M440i Convertible	311	SA	LDV	4242	4500	5192	15.6	150	2600	No
M440i Coupe	350	SA	LDV	3896	4250	4828	15.6	150	2600	No
M440i Gran Coupe	380	SA	LDV	4149	4500	5324	15.6	150	2600	No
M440i xDrive Convertible	351	SA	LDV	4354	4750	5280	15.6	150	2600	No
M440i xDrive Coupe	310	SA	LDV	4019	4250	4960	15.6	150	2600	No
M440i xDrive Gran Coupe	354	SA	LDV	4266	4500	5445	15.6	150	2600	No
X3 M50	--	SA	LDT 2	4535	4750	5776	17.2	150	2600	--

12.1.2. Drive Train Information

Model Name	Carline	Trans-Type (-drive Sys.)	# Gears	Axle ratio		Engine Code	Combustion engine power [hp / rpm]	Combustion engine torque ft-lb / rpm
				front	rear			
540i xDrive Sedan	353	SA (A)	8	3.07	3.07	B58B30M2G60X	375 / 5500	398 / 1900 - 4800
M240i Coupe	379	SA (R)	8	not applicable	2.81	B58B30M2G42S	375 / 5500	398 / 1900 - 4800
M240i xDrive Coupe	355	SA (A)	8	2.81	2.81	B58B30M2G42X	375 / 5500	398 / 1900 - 4800
M440i Convertible	311	SA (R)	8	not applicable	2.81	B58B30M2G23S	375 / 5500	398 / 1900 - 4800
M440i Coupe	350	SA (R)	8	not applicable	2.81	B58B30M2G22S	375 / 5500	398 / 1900 - 4800
M440i Gran Coupe	380	SA (R)	8	not applicable	2.92	B58B30M2G26S	375 / 5500	398 / 1900 - 4800
M440i xDrive Convertible	351	SA (A)	8	2.81	2.81	B58B30M2G23X	375 / 5500	398 / 1900 - 4800
M440i xDrive Coupe	310	SA (A)	8	2.81	2.81	B58B30M2G22X	375 / 5500	398 / 1900 - 4800
M440i xDrive Gran Coupe	354	SA (A)	8	2.92	2.92	B58B30M2G26X	375 / 5500	398 / 1900 - 4800
X3 M50	--	SA (A)	8	3.38	3.38	B58B30M2G45X	375 / 5500	398 / 1900 - 4800

12.1.3. Tire Information

Modell	Carline	Trans	Road Load CFG	Tire Front	Tire Rear
540i xDrive Sedan	353	SA	31	245/40 R20 99Y STD	275/35 R20 102Y STD
				245/45 R19 102Y STD	245/45 R19 102Y STD
			32	245/35 R21 96Y STD	275/30 R21 98Y STD
				245/45 R19 102H M+S STD	245/45 R19 102H M+S STD
				245/40 R20 99H M+S STD	275/35 R20 102H M+S STD
			33	245/45 R19 102Y STD	275/40 R19 105Y STD
				245/40 R20 99Y STD (HP)	275/35 R20 102Y STD (HP)
245/35 R21 96Y STD	275/30 R21 98Y STD				
M240i Coupe	379	SA	21	225/40 R19 93Y RSC STD	255/35 R19 96Y RSC STD
				225/40 R19 93H M+S RSC	225/40 R19 93H M+S RSC
			22	225/35 R20 90Y RSC	255/30 R20 92Y RSC
				225/40 R19 93Y RSC	255/35 R19 96Y RSC
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
				245/35 ZR19 93Y STD (HP)	255/35 ZR19 96Y STD (HP)
M240i xDrive Coupe	355	SA	21	225/40 R19 93Y RSC STD	255/35 R19 96Y RSC STD
				225/40 R19 93H M+S RSC	225/40 R19 93H M+S RSC

			22	245/35 ZR19 93Y STD (HP)	255/35 ZR19 96Y STD (HP)
				225/35 R20 90Y RSC	255/30 R20 92Y RSC
				225/40 R19 93Y RSC	255/35 R19 96Y RSC
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
M440i Convertible	311	SA	21	225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93H M+S RSC	225/40 R19 93H M+S RSC
				225/40 R19 93Y RSC	255/35 R19 96Y RSC
				225/45 R18 95H M+S RSC STD	225/45 R18 95H M+S RSC STD
			22	225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
M440i Coupe	350	SA	21	225/40 R19 93H M+S RSC	225/40 R19 93H M+S RSC
				225/45 R18 95H M+S RSC STD	225/45 R18 95H M+S RSC STD
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93Y RSC	255/35 R19 96Y RSC
			22	225/35 R20 90Y RSC	255/30 R20 92Y RSC
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
M440i Gran Coupe	380	SA	11	225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
M440i xDrive Convertible	351	SA	21	225/40 R19 93H M+S RSC	225/40 R19 93H M+S RSC
				225/45 R18 95H M+S RSC STD	225/45 R18 95H M+S RSC STD
				225/40 R19 93Y RSC	255/35 R19 96Y RSC
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
			22	225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
M440i xDrive Coupe	310	SA	21	225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93H M+S RSC	225/40 R19 93H M+S RSC
				225/45 R18 95H M+S RSC STD	225/45 R18 95H M+S RSC STD
				225/40 R19 93Y RSC	255/35 R19 96Y RSC
			22	225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
M440i xDrive Gran Coupe	354	SA	11	225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
				225/45 R18 95Y RSC	255/40 R18 99Y RSC
				225/40 R19 93Y RSC STD (HP)	255/35 R19 96Y RSC STD (HP)
X3 M50	--	SA	20	worst case represented	worst case represented

M+S indicates an All-Season tire and not a dedicated Winter tire
(Winter) indicates a dedicated Winter tire
AT indicates an All-Terrain tire
HP indicates a High-Performance 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
12.1.4.2. Particulate Filter	not applicable
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 by waste gate
12.1.4.7. Other	Charged Air Cooler
12.1.5. Number of valves per cylinder	4
12.1.6. Engine displacement	2998 cm ³
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
540i xDrive Sedan	353	SA	31	24.6	36.8	0.129	0.01979	12.4	-2.2	0.241	0.01556	Yes
540i xDrive Sedan	353	SA	32	24.6	39.9	0.138	0.02023	13.0	1.7	0.250	0.01612	Yes
540i xDrive Sedan	353	SA	33	24.6	47.9	0.161	0.01858	13.7	9.1	0.252	0.01483	Yes
M240i Coupe	379	SA	21	24	42.4	-0.069	0.01972	11.8	12.9	0.188	0.01549	Yes
M240i Coupe	379	SA	22	24	52.4	-0.039	0.02009	13.4	19.4	0.259	0.01566	Yes
M240i xDrive Coupe	355	SA	21	24	44.7	-0.076	0.02010	12.2	-8.2	0.242	0.01415	Yes
M240i xDrive Coupe	355	SA	22	24	54.3	-0.047	0.02047	13.8	-2.7	0.333	0.01421	Yes
M440i Convertible	311	SA	21	24	45.1	-0.084	0.02009	12.2	21.9	0.127	0.01619	Yes
M440i Convertible	311	SA	22	24	52.8	-0.064	0.02082	13.6	26.9	0.193	0.01672	Yes
M440i Coupe	350	SA	21	24	44.2	-0.085	0.01962	11.9	21.7	0.115	0.01588	Yes
M440i Coupe	350	SA	22	24	53.2	-0.060	0.02000	13.4	29.3	0.159	0.01609	Yes
M440i Gran Coupe	380	SA	11	24	51.1	-0.060	0.02014	13.1	22.0	0.251	0.01534	Yes
M440i xDrive Convertible	351	SA	21	24	49.1	-0.065	0.01997	12.8	5.6	0.226	0.01395	Yes
M440i xDrive Convertible	351	SA	22	24	57.0	-0.044	0.02070	14.2	14.2	0.185	0.01554	Yes
M440i xDrive Coupe	310	SA	21	24	46.8	-0.070	0.01968	12.3	3.1	0.168	0.01455	Yes

M440i xDrive Coupe	310	SA	22	24	55.5	-0.046	0.02005	13.8	12.5	0.183	0.01478	Yes
M440i xDrive Gran Coupe	354	SA	11	24	53.3	-0.042	0.02018	13.6	4.3	0.180	0.01542	Yes
X3 M50	--	SA	20	25.9	48.6	0.141	0.02348	15.2	1.2	0.180	0.02018	Yes

Road Load Configuration Description

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

12.3. Hybrid Electric Vehicle System Description

12.3.1. Description of electric motor

Model Name	Type	Power (peak) [kW]	Max. torque [Nm]
540i xDrive Sedan	PMSM (permanent magnet synchronous motor)	13 @ 2000	200
M240i Coupe	PMSM (permanent magnet synchronous motor)	9 @ 2000	200
M240i xDrive Coupe	PMSM (permanent magnet synchronous motor)	9 @ 2000	200
M440i Convertible	PMSM (permanent magnet synchronous motor)	9 @ 2000	200
M440i Coupe	PMSM (permanent magnet synchronous motor)	9 @ 2000	200
M440i Gran Coupe	PMSM (permanent magnet synchronous motor)	9 @ 2000	200
M440i xDrive Convertible	PMSM (permanent magnet synchronous motor)	9 @ 2000	200
M440i xDrive Coupe	PMSM (permanent magnet synchronous motor)	9 @ 2000	200
M440i xDrive Gran Coupe	PMSM (permanent magnet synchronous motor)	9 @ 2000	200

12.3.2. Description of batteries

Model Name	System Chemistry	Capacity (C) [Ah]	Energy Capacity (E) [kWh]	Nominal Voltage [V]	Min. Voltage Pack [V]	Number of Packs	Number of Modules	Number of Battery Cells
540i xDrive Sedan	Li-Ion	20.0	0.92	46.2	35.0	1	1	14
M240i Coupe	LI-ION	10.0	0.44	44.0	38.0	1	1	20
M240i xDrive Coupe	LI-ION	10.0	0.44	44.0	38.0	1	1	20
M440i Convertible	LI-ION	10.0	0.44	44.0	38.0	1	1	20
M440i Coupe	LI-ION	10.0	0.44	44.0	38.0	1	1	20
M440i Gran Coupe	LI-ION	10.0	0.44	44.0	38.0	1	1	20
M440i xDrive Convertible	LI-ION	10.0	0.44	44.0	38.0	1	1	20
M440i xDrive Coupe	LI-ION	10.0	0.44	44.0	38.0	1	1	20
M440i xDrive Gran Coupe	LI-ION	10.0	0.44	44.0	38.0	1	1	20

Model Name	Cell format	Min. Voltage Cell [V]	Weight [kg]	Specific Energy Density [Wh/kg]	Chemistry Identifier
540i xDrive Sedan	pouch	2.50	19.6	47	Li Fe(LFP) - C.FP
M240i Coupe	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F
M240i xDrive Coupe	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F
M440i Convertible	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F
M440i Coupe	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F
M440i Gran Coupe	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F
M440i xDrive Convertible	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F
M440i xDrive Coupe	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F
M440i xDrive Gran Coupe	pouch	1.90	11.6	38	Li MM(NMC) - Ti.F

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
sporty	no	sporty setting for shift points

12.5. Modes used for EDV Testing

Test EDV:

VID	CFG	Fuel	FTP	HWY	US06	SC03	Cold CO
9T75001	00	T3E10	SBMX10086438	SBMX10086439	SBMX10086441	SBMX10086440	SBMX10086444
9T75001	02	T2E0	SBMX10086451	SBMX10086449	---	---	---

Drive Mode
T3E10 EDV testing is done in drive mode "Sport" (sporty) and transmission mode "S" (sporty). 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 VBMXV03.0B5P.

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
310	M440i xDrive Coupe	see attachment: 03VE-VB5P-01
311	M440i Convertible	
350	M440i Coupe	
351	M440i xDrive Convertible	
353	540i xDrive Sedan	
354	M440i xDrive Gran Coupe	
355	M240i xDrive Coupe	
379	M240i Coupe	
380	M440i Gran Coupe	

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
310	M440i xDrive Coupe	VBMXR0150G6F	see attachment: FTTP-0G6F-02
311	M440i Convertible		
350	M440i Coupe		
351	M440i xDrive Convertible		
353	540i xDrive Sedan		
354	M440i xDrive Gran Coupe		
355	M240i xDrive Coupe		
379	M240i Coupe		
380	M440i Gran Coupe		

17. Attachment

- | | | |
|------|--|--|
| 17.1 | Fuel Tank Temperature Profile | see attachment: FTTP-0G6F-02 |
| 17.2 | VECI Label | see attachment: 03VE-VB5P-01 |
| 17.3 | Litmus Check | see attachment: 03LC-0B5P-02 |
| 17.4 | Certification Summary Information Report | see attachment:
CSI-VBMXV03.0B5P-VBMXR0150G6F |

Test Vehicle Data

Vehicle Type: X3 xDrive30i
Mileage: 6946 mi
Fuel tank volume: 65 L
Fuel volume: 26 L

Ambient Conditions

Weather: sunny
clouds: 1 %
Wind speed: 0 mph
Ambient temp:
Start: 107 °F
delta: 2 °F

Surface temperature: 100 %

Test Data

Date of test: 10/09/2023
Engine start: 11:43
Measure start: 11:49
Measure stop: 13:01
Test track: Dubai Bab Al Shams

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	91,8	91,7	91,7	95,0	92,9	-0,5
30	91,8	91,8	91,8	95,1	93,1	-0,9
60	92,0	92,0	92,0	95,2	93,2	-2,2
90	92,1	92,1	92,1	95,3	93,3	-2,4
120	92,2	92,2	92,2	95,4	93,4	-0,6
150	92,3	92,3	92,3	95,5	93,5	-2,0
180	92,4	92,4	92,4	95,6	93,6	-1,3
210	92,5	92,5	92,5	95,7	93,8	-1,3
240	92,6	92,5	92,6	95,9	93,9	-0,6
270	92,8	92,7	92,7	96,0	94,0	-2,3
300	92,9	92,9	92,9	96,2	94,2	-0,7
330	93,1	93,1	93,1	96,3	94,3	-1,7
360	93,2	93,2	93,2	96,5	94,5	-0,8
390	93,3	93,4	93,4	96,6	94,6	-0,4
420	93,5	93,5	93,5	96,8	94,8	-0,8
450	93,7	93,7	93,7	96,9	95,0	-2,5
480	93,8	93,8	93,8	97,1	95,1	-0,9
510	93,9	93,9	93,9	97,2	95,2	-2,1
540	94,1	94,1	94,1	97,3	95,3	-1,0
570	94,2	94,2	94,2	97,4	95,4	-1,3
600	94,4	94,3	94,3	97,6	95,5	-2,1
630	94,5	94,4	94,4	97,7	95,6	-0,5
660	94,6	94,5	94,6	97,8	95,8	-2,8
690	94,7	94,7	94,7	98,0	95,9	-3,4
720	94,9	94,8	94,9	98,1	96,0	-0,5
750	95,1	95,0	95,0	98,3	96,2	-0,6
780	95,2	95,1	95,2	98,4	96,3	-2,4
810	95,3	95,2	95,3	98,5	96,4	-2,1
840	95,4	95,4	95,4	98,7	96,5	-1,9
870	95,6	95,5	95,6	98,8	96,6	-1,3
900	95,7	95,7	95,7	99,0	96,8	-2,6
930	95,9	95,8	95,8	99,1	97,0	-1,8
960	96,0	95,9	96,0	99,2	97,1	-1,5
990	96,2	96,1	96,1	99,4	97,2	-1,7
1020	96,3	96,2	96,2	99,5	97,3	-0,6
1050	96,4	96,4	96,4	99,6	97,5	-1,1

1080	96,5	96,5	96,5	99,7	97,6	-0,4
1110	96,6	96,6	96,6	99,9	97,7	-3,7
1140	96,8	96,8	96,8	100,0	97,8	-0,6
1170	96,9	96,9	96,9	100,2	97,9	-1,3
1200	97,0	97,1	97,1	100,3	98,0	-1,2
1230	97,2	97,2	97,2	100,4	98,1	-1,1
1260	97,3	97,3	97,3	100,5	98,2	-2,1
1290	97,3	97,4	97,4	100,7	98,4	-2,2
1320	97,5	97,5	97,5	100,8	98,5	-0,5
1350	97,6	97,7	97,7	100,9	98,6	-1,0
1380	97,8	97,8	97,8	101,1	98,7	-0,4
1410	98,0	97,9	98,0	101,2	98,8	-0,4
1440	98,2	98,1	98,1	101,4	98,9	-2,8
1470	98,3	98,2	98,2	101,5	99,1	-2,8
1500	98,4	98,3	98,4	101,6	99,2	-2,0
1530	98,5	98,4	98,5	101,7	99,4	-3,1
1560	98,6	98,5	98,6	101,8	99,5	-0,7
1590	98,8	98,7	98,7	102,0	99,6	-1,4
1620	98,9	98,8	98,9	102,1	99,6	-0,6
1650	99,0	98,9	99,0	102,2	99,8	-2,7
1680	99,1	99,0	99,1	102,4	99,9	-1,6
1710	99,3	99,2	99,2	102,5	100,0	-0,5
1740	99,4	99,4	99,4	102,6	100,1	-3,2
1770	99,5	99,5	99,5	102,8	100,2	-1,0
1800	99,6	99,6	99,6	102,9	100,3	-0,9
1830	99,8	99,7	99,7	103,0	100,3	-0,7
1860	99,9	99,9	99,9	103,1	100,4	-2,5
1890	100,0	100,0	100,0	103,3	100,5	-2,6
1920	100,1	100,1	100,1	103,4	100,5	-1,6
1950	100,2	100,2	100,2	103,5	100,6	-1,5
1980	100,4	100,3	100,3	103,6	100,6	-3,0
2010	100,5	100,4	100,4	103,7	100,7	-1,8
2040	100,6	100,5	100,5	103,8	100,9	-1,3
2070	100,7	100,7	100,7	104,0	101,0	-0,5
2100	100,9	100,8	100,8	104,1	101,1	-2,9
2130	101,0	101,0	101,0	104,3	101,2	-2,9
2160	101,2	101,1	101,1	104,4	101,3	-0,8
2190	101,3	101,2	101,3	104,5	101,4	-1,6
2220	101,4	101,3	101,4	104,6	101,5	-1,1
2250	101,5	101,4	101,5	104,7	101,6	-1,0
2280	101,6	101,5	101,6	104,8	101,7	-1,0
2310	101,8	101,7	101,7	105,0	101,8	-0,7
2340	101,9	101,8	101,9	105,1	101,9	-0,6
2370	102,0	102,0	102,0	105,2	102,0	-1,4
2400	102,1	102,1	102,1	105,4	102,1	-0,7
2430	102,2	102,2	102,2	105,5	102,2	-1,5
2460	102,4	102,3	102,4	105,6	102,3	-2,7
2490	102,5	102,4	102,5	105,7	102,4	-1,3
2520	102,6	102,6	102,6	105,8	102,5	-1,3
2550	102,7	102,7	102,7	105,9	102,5	-1,6
2580	102,8	102,8	102,8	106,0	102,6	-4,0
2610	102,9	102,9	102,9	106,2	102,7	-1,6
2640	103,0	103,0	103,0	106,3	102,8	-1,1
2670	103,2	103,1	103,2	106,4	102,9	-0,9
2700	103,3	103,3	103,3	106,5	103,0	-2,9
2730	103,4	103,4	103,4	106,7	103,1	-3,5

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

BMW

Designation

Attachment

**VECI Label LDV, VBMXV03.0B5P,
VBMXR0150G6F**

Date: 03.12.2025

03VE-VB5P-01

DRAFT - Inverted Representation

		Bayerische Motoren Werke AG	
		VEHICLE EMISSION CONTROL INFORMATION	
Conforms to regulations:		MY 2027	
U.S. EPA:	Interim Tier 4 - Bin 30 LDV	CA OBD II	
EVAP:	Tier 3 - 350 LDV	Fuel: gasoline	
California:	Conforms to U.S. EPA regulations and is certified for sale in California	CA OBD II	
		Fuel: gasoline	
No adjustments needed.		TWC+GPF, WR-HO2S, HO2S, DFI, MFI, TC, CAC	
Group:	VBMXV03.0B5P		8 898 370
Evap:	VBMXR0150G6F		

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	FE Bag4
FTP75	SBMX10086438	31	21.2	20.4	19.7	24.3	20.4
HWFET	SBMX10086439	3	33.1				
US06	SBMX10086441	90		15.6	27.7		
SC03	SBMX10086440	95		16.4			
Cold CO	SBMX10086444	11		16.1	17.8	21.5	

Model Specific Calculation (5 Cycle)

City	[mi/gallon]	Highway	[mi/gallon]
Start FC	0.0032	Start FC	0.0002
Start Fuel 75	0.0351	Start Fuel 75	0.0351
Start Fuel 20	0.0562	Start Fuel 20	0.0562
Running FC	0.0506	Running FC	0.0359
Label City (5 Cycle)	16.8	Label Highway (5 Cycle)	25.0

Derived Calculation (2 Cycle)

Label City (2 Cycle)	17.0	Label Highway (2 Cycle)	23.6
Threshold (96% Derived MPG - 2 Cycle)	16.3	Threshold (95% Derived MPG - 2 Cycle)	22.4

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)
16.8	16.3	25.0	22.4

Certification Summary Information Report

Manufacturer	BMW	Manufacturer Code	BMX
Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	04/21/2026 05:20:58 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
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Test Group Information

CSI Type	Running Change	Running Change Reference Number	27-V03.0B5P-01
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 & ported injection	No

Drive Source #2: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VBMXHHGVNV2P	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	04/01/2026	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	--
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VBMXV03.0B5P
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	E-25-316, E-26-092		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	10/07/2025 07:58:29 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)	150	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	1 - BMW	354 - M440i xDrive Gran Coupe	Federal	All Wheel Drive	Semi-Automatic	8	Yes
BMW	1 - BMW	351 - M440i xDrive Convertible	Federal	All Wheel Drive	Semi-Automatic	8	Yes
BMW	1 - BMW	353 - 540i xDrive Sedan	Federal	All Wheel Drive	Semi-Automatic	8	Yes
BMW	1 - BMW	379 - M240i Coupe	Federal	2-Wheel Drive, Rear	Semi-Automatic	8	Yes
BMW	1 - BMW	380 - M440i Gran Coupe	Federal	2-Wheel Drive, Rear	Semi-Automatic	8	Yes
BMW	1 - BMW	350 - M440i Coupe	Federal	2-Wheel Drive, Rear	Semi-Automatic	8	Yes
BMW	1 - BMW	310 - M440i xDrive Coupe	Federal	All Wheel Drive	Semi-Automatic	8	Yes
BMW	1 - BMW	311 - M440i Convertible	Federal	2-Wheel Drive, Rear	Semi-Automatic	8	Yes
BMW	1 - BMW	355 - M240i xDrive Coupe	Federal	All Wheel Drive	Semi-Automatic	8	Yes

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F	
Engine Description				
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	Fuel Economy Guide Category MHEV (Mild Hybrid Electric Vehicle)	
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-12	
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N	
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	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
		After Treatment Device #2: Gasoline particulate filter (GPF)		
Direct Ozone Reduction (DOR) Device				
		Not Equipped		
Mfr Emission Control Device Comments				
--				
Engine Configuration Number 1				
Engine Displacement (liters)	3.0	Engine Rated Horsepower	375	
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 and two settings at outlet 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	--			

Certification Summary Information Report

Test Group		VBMXV03.0B5P				Evaporative/Refueling Family		VBMXR0150G6F			
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		SBMX10086438	SBMX10086441	SBMX10086440	SBMX10086444	SBMX10086439	20.1	228.2	33.8	286.1	--
Electricity		--	--	--	--	--	--	--	--	--	--

SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	SBMX10086438	SBMX10086441	SBMX10086440

Hybrid Electric Vehicle And Fuel Cell Information			
Rechargable Energy Storage System	Battery(s)	Rechargable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	44	Battery Energy Capacity	10.0
Battery Specific Energy	38	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	PMSM	Rated Motor/Generator Power	9
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	M440i Convertible, M440i Coupe, M440i xDrive Convertible, M440i xDrive Coupe, M440i Gran Coupe, M440i xDrive Gran Coupe, M240i Coupe and M240i xDrive Coupe: Battery Energy Capacity 10.0 Ah, Total Voltage of Battery Pack(s) 44 V, Battery Specific Energy 38.0 Wh/kg, Motor/Generator Type: PMSM 9 kW; 540i xDrive Sedan: Battery Energy Capacity 20.0 Ah, Total Voltage of Battery Pack(s) 46.2 V, Battery Specific Energy 47.0 Wh/kg, Motor/Generator Type: PMSM 13 kW; Motor/Generator Type: permanent magnet synchronous machine (PMSM)		

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
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Emission Data Vehicle Information

Vehicle ID / Configuration	9T75001 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SBMXJ03.0B5P	Original Evaporative/Refueling Family	SBMXR0150G6F
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	X3 M50i xDrive
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
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	B58B30M2G45X	Rated Horsepower	375
Displacement (liters)	3		
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)	4535	Equivalent Test Weight (pounds)	4750
GVWR (lbs)	5776	N/V Ratio	25.9
Axle Ratio	3.38		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Page 7 of 40 CSI Submission/Revision Date: 04/21/2026 05:20:58 AM

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10086438	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	03/05/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
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	4068	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	423.1771	--
FE BAG 1 (Bag 1 Fuel Economy)	20.4	20.4
CO2 BAG 2 (Bag 2 Carbon Dioxide)	439.0809	--
FE BAG 2 (Bag 2 Fuel Economy)	19.7	19.7
CO2 BAG 3 (Bag 3 Carbon Dioxide)	356.4346	--
FE BAG 3 (Bag 3 Fuel Economy)	24.3	24.3
CO2 BAG 4 (Bag 4 Carbon Dioxide)	423.0234	--
FE BAG 4 (Bag 4 Fuel Economy)	20.4	20.4
METHANE (CH4 - Methane)	0.00145	--
CO (Carbon Monoxide)	0.2047	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.117	--
DT-EER (Drive Trace Energy Economy Rating)	-0.5	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.03	--
MFR FE (Manufacturer Fuel Economy)	21.2	21.2
NOX (Nitrogen Oxide)	0.00532	--
N2O (Nitrous Oxide)	0.00035	--
HC-NM (Non-methane Hydrocarbon)	0.00545	--
NMOG (Non-methane organic gases)	0.00599	--
PM (Particulate Matter)	0.000083	--
HC-TOTAL (Total Hydrocarbon)	0.00684	--

Certification Summary Information Report

Test Group		VBMXV03.0B5P			Evaporative/Refueling Family				VBMXR0150G6F			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		408		999						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		408.3418		--						
Manufacturer Test Comments		01_FTP_9T75001_00_EDV_X3 M50i xDrive_A_ETW-4750_RG20_S-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	Federal Tier 3 Bin 30	CREE	999	--	--	--	0.2	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.20	--	--	--	0.16	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.33	--	--	--	--	--	0.3	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0060	--	1.10	--	0.0023	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0113	--	--	--	--	--	0.019	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0193	--	--	--	--	--	0.019	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0053	--	--	--	0.0054	--	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0001	--	--	--	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	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10086444	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	03/23/2024	Fuel	Gasoline
Fuel Batch ID	COE10	Fuel Calibration Number	41
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	4577	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	534.8465	--
FE BAG 1 (Bag 1 Fuel Economy)	16.1	16.1
CO2 BAG 2 (Bag 2 Carbon Dioxide)	484.4988	--
FE BAG 2 (Bag 2 Fuel Economy)	17.8	17.8
CO2 BAG 3 (Bag 3 Carbon Dioxide)	400.9692	--
FE BAG 3 (Bag 3 Fuel Economy)	21.5	21.5
METHANE (CH4 - Methane)	0.00685	--
CO (Carbon Monoxide)	0.333	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.234	--
DT-EER (Drive Trace Energy Economy Rating)	-0.33	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.59	--
MFR FE (Manufacturer Fuel Economy)	18.3	18.3
HC-NM (Non-methane Hydrocarbon)	0.01721	--
HC-TOTAL (Total Hydrocarbon)	0.02387	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	471.9641	--

Manufacturer Test Comments

06_FTPCOLD_9T75001_00_EDV_X3 M50i xDrive_A_ETW-4750_RG20_S-Sport_S_off

Certification Summary Information Report

Test Group		VBMXV03.0B5P			Evaporative/Refueling Family					VBMXR0150G6F		
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	0.33	--	--	--	0.05	--	0.4	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.02	--	--	--	0.00	--	0.0	0.3	Pass

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10086439	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	03/06/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
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	4093	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	0.00065	--
CO (Carbon Monoxide)	0.0724	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.215	--
DT-EER (Drive Trace Energy Economy Rating)	0.667	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.338	--
MFR FE (Manufacturer Fuel Economy)	33.1	33.1
NOX (Nitrogen Oxide)	0.00145	--
HC-NM (Non-methane Hydrocarbon)	0.00073	--
NMOG (Non-methane organic gases)	0.00075	--
HC-TOTAL (Total Hydrocarbon)	0.00135	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	261	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	261.3036	--

Manufacturer Test Comments 02_HWFET_9T75001_00_EDV_X3 M50i xDrive_A_ETW-4750_RG20_S-Sport_S_off

Certification Summary Information Report

Test Group		VBMXV03.0B5P			Evaporative/Refueling Family					VBMXR0150G6F		
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	Federal Tier 3 Bin 30	CREE	999	--	--	--	0.2	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0008	--	1.03	--	0.0023	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0022	--	--	--	--	--	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0014	--	--	--	0.0054	--	0.007	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	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10086441	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	03/06/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
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	4126	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	553.1698	--
FE BAG 1 (Bag 1 Fuel Economy)	15.6	15.6
CO2 BAG 2 (Bag 2 Carbon Dioxide)	311.7024	--
FE BAG 2 (Bag 2 Fuel Economy)	27.7	27.7
METHANE (CH4 - Methane)	0.00305	--
CO (Carbon Monoxide)	0.241	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.352	--
DT-EER (Drive Trace Energy Economy Rating)	0.397	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.916	--
MFR FE (Manufacturer Fuel Economy)	23.7	23.7
NOX (Nitrogen Oxide)	0.00923	--
HC-NM (Non-methane Hydrocarbon)	0.00552	--
NMOG (Non-methane organic gases)	0.00568	--
PM (Particulate Matter)	0.000502	--
HC-TOTAL (Total Hydrocarbon)	0.00846	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	365.1681	--

Manufacturer Test Comments

03_US06_9T75001_00_EDV_X3 M50i xDrive_A_ETW-4750_RG20_S-Sport_S_off

Certification Summary Information Report

Test Group		VBMXV03.0B5P				Evaporative/Refueling Family				VBMXR0150G6F		
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	0.2410	--	--	--	0.16	--	0.401	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0057	--	1.03	--	0.0023	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0092	--	--	--	0.0054	--	0.015	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0005	--	--	--	0.0000	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10086440	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	03/11/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
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	4221	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	0.00011	--
CO (Carbon Monoxide)	0.0921	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.697	--
DT-EER (Drive Trace Energy Economy Rating)	-0.696	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.125	--
MFR FE (Manufacturer Fuel Economy)	16.4	16.4
NOX (Nitrogen Oxide)	0.00878	--
HC-NM (Non-methane Hydrocarbon)	0.00048	--
NMOG (Non-methane organic gases)	0.0005	--
HC-TOTAL (Total Hydrocarbon)	0.00059	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	528.5673	--

Manufacturer Test Comments 04_SC03_9T75001_00_EDV_X3 M50i xDrive_A_ETW-4750_RG20_S-Sport_S_off

Certification Summary Information Report

Test Group		VBMXV03.0B5P			Evaporative/Refueling Family					VBMXR0150G6F		
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	0.0921	--	--	--	0.16	--	0.252	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0005	--	1.03	--	0.0023	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0088	--	--	--	0.0054	--	0.014	999.999	Pass

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
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Emission Data Vehicle Information

Vehicle ID / Configuration	9T75001 / 2	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SBMXJ03.0B5P	Original Evaporative/Refueling Family	SBMXR0150G6F
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	X3 M50i xDrive
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
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	B58B30M2G45X	Rated Horsepower	375
Displacement (liters)	3		
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)	4535	Equivalent Test Weight (pounds)	4750
GVWR (lbs)	5776	N/V Ratio	25.9
Axle Ratio	3.38		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

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	47.1	0.137	0.02348	-0.4	0.235	0.01971	

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	vi_9T75001_02_FEDV_X3 M50i xDrive_A_ETW-4750_RG22_default mode_D_on		

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10086451	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/19/2024	Fuel	Gasoline
Fuel Batch ID	T2/E0	Fuel Calibration Number	53
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	4432	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	335.8959	--
FE BAG 1 (Bag 1 Fuel Economy)	25.9	25.9
CO2 BAG 2 (Bag 2 Carbon Dioxide)	280.2723	--
FE BAG 2 (Bag 2 Fuel Economy)	31.2	31.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	263.1625	--
FE BAG 3 (Bag 3 Fuel Economy)	33.2	33.2
CO2 BAG 4 (Bag 4 Carbon Dioxide)	266.6608	--
FE BAG 4 (Bag 4 Fuel Economy)	32.7	32.7
METHANE (CH4 - Methane)	0.00228	--
CO (Carbon Monoxide)	0.3057	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.488	--
DT-EER (Drive Trace Energy Economy Rating)	-1.21	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.621	--
MFR FE (Manufacturer Fuel Economy)	30.8	30.8
NOX (Nitrogen Oxide)	0.00207	--
N2O (Nitrous Oxide)	0.00024	--
HC-NM (Non-methane Hydrocarbon)	0.00819	--
NMOG (Non-methane organic gases)	0.00851	--
HC-TOTAL (Total Hydrocarbon)	0.01036	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	284	284

Certification Summary Information Report

Test Group		VBMXV03.0B5P				Evaporative/Refueling Family				VBMXR0150G6F		
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		283.0843		--						
Manufacturer Test Comments		01_FTP_9T75001_02_FEDV_X3 M50i xDrive_A_ETW-4750_RG22_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	Federal Tier 3 Bin 30	CREE	284	--	--	--	0.2	--	284	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.31	--	--	--	0.16	--	0.5	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0085	--	1.10	--	0.0023	--	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0106	--	--	--	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0021	--	--	--	0.0054	--	0.008	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	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10086449	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/19/2024	Fuel	Gasoline
Fuel Batch ID	T2/E0	Fuel Calibration Number	53
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	4432	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	0.00132	--
CO (Carbon Monoxide)	0.1595	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.44	--
DT-EER (Drive Trace Energy Economy Rating)	-0.22	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.621	--
MFR FE (Manufacturer Fuel Economy)	41.2	41.2
NOX (Nitrogen Oxide)	0.00064	--
HC-NM (Non-methane Hydrocarbon)	0.00033	--
NMOG (Non-methane organic gases)	0.00034	--
HC-TOTAL (Total Hydrocarbon)	0.00162	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	212	212

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	212.4916	--

Manufacturer Test Comments 02_HWFET_9T75001_02_FEDV_X3 M50i xDrive_A_ETW-4750_RG22_default mode_D_on

Certification Summary Information Report

Test Group		VBMXV03.0B5P				Evaporative/Refueling Family				VBMXR0150G6F		
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	Federal Tier 3 Bin 30	CREE	212	--	--	--	0.2	--	212	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0003	--	1.03	--	0.0023	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0009	--	--	--	--	--	0.009	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0006	--	--	--	0.0054	--	0.006	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	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
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Emission Data Vehicle Information

Vehicle ID / Configuration	9T75018 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SBMXJ02.0B4P	Original Evaporative/Refueling Family	SBMXR0150G60
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	X3 xDrive30i
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
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	B48B20O2G45X	Rated Horsepower	255
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)	4176	Equivalent Test Weight (pounds)	4500
GVWR (lbs)	5512	N/V Ratio	26.2
Axle Ratio	3.38		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

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	44.2	0.118	0.02266	12.8	0.122	0.02015	14.2

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F									
Emission Control Device Comments	--											
Manufacturer Test Vehicle Comments	vi_9T75018_00_EVAP EDV_X3 xDrive30i_A_ETW-4500_RG30_E10											
Test #	SBMX10085517	Test Procedure	23 - 2-day evap									
Exhaust Test # for this Evap Test	SBMX10085514	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	02/13/2024	Fuel	Gasoline									
Fuel Batch ID	T10/87	Fuel Calibration Number	39									
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	3552	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												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.16206</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.17502</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.16206	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.17502	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
HC-TOTAL (Total Hydrocarbon)	0.16206	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.17502	--										
Manufacturer Test Comments	EVAP EDV - 2Day, X3 xDrive30i											
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	0.1750	0.0000	0.175	0.350	Pass				

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10085519	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SBMX10085515	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/29/2024	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	3669	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)	0.21303	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.23007	--

Manufacturer Test Comments EVAP EDV - 3Day, X3 xDrive30i

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	0.2301	0.0000	0.230	0.350	Pass

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Test #	SBMX10085522	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SBMX10085515	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/29/2024	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	3641	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, X3 xDrive30i

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

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F																		
Test #	SBMX10085523	Test Procedure	24 - Federal fuel refueling test (ORVR)																		
Exhaust Test # for this Evap Test	SBMX10085516	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																		
Test Date	02/22/2024	Fuel	Gasoline																		
Fuel Batch ID	T10/87	Fuel Calibration Number	39																		
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	3611	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																					
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>HC (Hydrocarbon for Running Loss and ORVR)</td><td>0.03314</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC (Hydrocarbon for Running Loss and ORVR)	0.03314	--												
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																			
HC (Hydrocarbon for Running Loss and ORVR)	0.03314	--																			
Manufacturer Test Comments EVAP EDV - ORVR, X3 xDrive30i																					
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC</td><td>0.033</td><td>0.000</td><td>0.03</td><td>0.20</td><td>Pass</td></tr></table>				Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	Fed	150,000 miles	Federal Tier 3 Evap	HC	0.033	0.000	0.03	0.20	Pass
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail													
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.033	0.000	0.03	0.20	Pass													

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F																		
Test #	SBMX10085524	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	03/13/2024	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	3712	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																					
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0088</td><td>--</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.0095</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.0088	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0095	--									
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																			
HC-TOTAL (Total Hydrocarbon)	0.0088	--																			
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0095	--																			
Manufacturer Test Comments EVAP EDV - Bleed Test, X3 xDrive30i																					
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.0095</td><td>0.0000</td><td>0.010</td><td>0.020</td><td>Pass</td></tr></table>				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	0.0095	0.0000	0.010	0.020	Pass
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	0.0095	0.0000	0.010	0.020	Pass													

Certification Summary Information Report

Test Group	VBMXV03.0B5P		Evaporative/Refueling Family	VBMXR0150G6F						
Test #	SBMX10085525		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	03/12/2024		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	--									
Test Start Odometer Reading	3687		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										
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>LEAK-DIA (Effective Leak Diameter (inches))</td> <td>0</td> <td>--</td> </tr> </tbody> </table>					Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	LEAK-DIA (Effective Leak Diameter (inches))	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value								
LEAK-DIA (Effective Leak Diameter (inches))	0	--								
Manufacturer Test Comments										
EVAP EDV - Leak Test, X3 xDrive30i										
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	0.000	0.000	0.00	0.02	Pass		

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Fuel Properties			
Fuel Batch ID	T10/87	Fuel Calibration Number	39
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/25/2023
Fuel Batch Calibration Effective Date	11/09/2023	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	0.742
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18000
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	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	53
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/21/2024
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	0.861	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.736
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18732
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.861	Weight Fraction CO2	--
Fuel Batch ID	COE10	Fuel Calibration Number	41
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	11/14/2023
Fuel Batch Calibration Effective Date	11/14/2023	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
Exhaust Carbon Weight Fraction	0.826	Fuel Methanol Volume Fraction	--
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)	17949
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		VBMXV03.0B5P			Evaporative/Refueling Family		VBMXR0150G6F		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	0.0000	--	--	0.16	999.999
150,000 miles	NMOG	--	--	1.03	0.0000	--	--	0.0023	999.999
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0054	999.999
150,000 miles	PM	--	--	--	0.0000	--	--	0.0000	0.006
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 30		
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	--	--	--	--	--	--	0.2	999
150,000 miles	CO	--	--	--	0.0000	--	--	0.16	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	0.0000	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0054	999.999
150,000 miles	PM	--	--	--	0.0000	--	--	0.0000	0.003

Certification Summary Information Report

Test Group	VBMXV03.0B5P				Evaporative/Refueling Family			VBMXR0150G6F	
Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				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
120,000 miles	CREE	--	--	--	--	--	--	0.2	999.999
150,000 miles	NMOG	--	--	1.03	0.0000	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0054	999.999

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 30	
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	--	--	--	--	--	--	0.2	999
150,000 miles	CO	--	--	--	0.0000	--	--	0.16	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.10	0.0000	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0054	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			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	--	--	--	0.0000	--	--	0.16	999.999
150,000 miles	NMOG	--	--	1.03	0.0000	--	--	0.0023	999.999
150,000 miles	NOX	--	--	--	0.0000	--	--	0.0054	999.999

Certification Summary Information Report

Test Group		VBMXV03.0B5P			Evaporative/Refueling Family			VBMXR0150G6F	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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	--	--	--	0.0000	--	--	0.05	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.3

Evaporative/Refueling Standards

Evaporative/Refueling Family		VBMXR0150G6F		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		VBMXR0150G6F		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		--		0.350	0.0000

Evaporative/Refueling Family		VBMXR0150G6F		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		VBMXR0150G6F		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	

Certification Summary Information Report

Test Group		VBMXV03.0B5P		Evaporative/Refueling Family		VBMXR0150G6F	
Evaporative/Refueling Family		VBMXR0150G6F		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		--	
						0.350	
						0.0000	

Evaporative/Refueling Family		VBMXR0150G6F		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	

Certification Summary Information Report

Test Group		VBMXV03.0B5P	Evaporative/Refueling Family	VBMXR0150G6F
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		VBMXV03.0B5P	Evaporative/Refueling Family		VBMXR0150G6F
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		VBMXV03.0B5P	Evaporative/Refueling Family		VBMXR0150G6F
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		VBMXV03.0B5P	Evaporative/Refueling Family		VBMXR0150G6F
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	