

Application for Certification

Model Year: 2027
Manufacturer Name: BMW

Test Group: VBMXV00.0G7A
Test Group Description: electric, BEV

Vehicle Class: EPA
LDV

Applicable Standards: EPA
FTP Standard: Tier 4 - Bin 0
SFTP Standard: not applicable

Carlines Covered: i7 xDrive50 Sedan (20" All-Season Tires), i7 xDrive50 Sedan (20" Summer Tires), i7 xDrive50 Sedan (21" All-Season Tires), i7 xDrive50 Sedan (21" Summer Tires), i7 xDrive60 Sedan (20" All-Season Tires), i7 xDrive60 Sedan (20" Summer Tires), i7 xDrive60 Sedan (21" All-Season Tires), i7 xDrive60 Sedan (21" Summer Tires)

Comprehensive List of Tests:

Multi-Cycle-Test:

Model	VID	CFG	Road Load CFG	Multi-Cycle-Test
i7 xDrive50 Sedan (20" Summer Tires)	CW53343	00	41	VBMX10094129
i7 xDrive60 Sedan (20" Summer Tires)	CW30571	00	41	VBMX10094138
i7 xDrive50 Sedan (21" Summer Tires)	CW53343	01	42	VBMX10094130
i7 xDrive60 Sedan (21" Summer Tires)	CW30571	01	42	VBMX10094136
i7 xDrive50 Sedan (21" All-Season Tires)	CW53343	02	44	VBMX10094131
i7 xDrive60 Sedan (21" All-Season Tires)	CW30571	02	44	VBMX10094137

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

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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. not applicable

3. Evaporative / Refueling Family Description

not applicable

4. Durability Procedure Description

not applicable

5. Test Group Description

5.1.	Test Group Name	VBMXV00.0G7A
5.2.	Electric Vehicle System Description	
5.2.1.	Electric Motor	Refer to Section 12
5.2.2.	Battery	Refer to Section 12
5.3.	Vehicle class	EPA
		LDV
5.4.	Emission standards class	Tier 4 - Bin 0

6. Test Vehicle Description

6.1. Test Vehicle Description

VID	CFG	Carline	Model	Trans Type	Road Load CFG
CW30571	00	497	i7 xDrive60 Sedan (20" Summer Tires)	A-1	41
CW30571	01	498	i7 xDrive60 Sedan (21" Summer Tires)	A-1	42
CW30571	02	500	i7 xDrive60 Sedan (21" All-Season Tires)	A-1	44
CW53343	00	493	i7 xDrive50 Sedan (20" Summer Tires)	A-1	41
CW53343	01	494	i7 xDrive50 Sedan (21" Summer Tires)	A-1	42
CW53343	02	496	i7 xDrive50 Sedan (21" All-Season Tires)	A-1	44

For a description of the selected drive modes refer to Section 12

Test parameter are described in the EV-CIS vehicle information

Road Load Configuration Description

X_ means number of tire groups used for this model
41 Road Load configuration
42 Road Load configuration
43 Road Load configuration
44 Road Load configuration

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

Certification Summary Information Report submitted to EV-CIS

see attachment:
CSI-VBMXV00.0G7A

The certified E-Range is given in the respective test information.

8. Statements**8.1 Emission Testing Waiver Statements**

not applicable

8.2 Compliance Statements

Break-In Period Vehicle, Battery, Fuel Cell

According to EPA CD-2021-12 the test vehicles are stabilized for certification testing by aging at least to 2,000 miles. Test vehicle and the battery, in addition the fuel cell if applicable, that power the vehicle during testing are aged as one unit at the same time for the same number of miles. Aging is done by using the SRC cycle.

Electric Vehicle Compliance

According to 40 CFR §86.1829-15 (f) we state as the manufacturer, consistent with good engineering judgement, that all vehicles included in this application comply with all the emission standards and related requirements of Part 86, subpart S.

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.

9. OBD System Description

not applicable

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]
i7 xDrive50 Sedan (20" All-Season Tires)	495	A (A)	LDV	5975	6500	7231
i7 xDrive50 Sedan (20" Summer Tires)	493	A (A)	LDV	5975	6500	7231
i7 xDrive50 Sedan (21" All-Season Tires)	496	A (A)	LDV	5975	6500	7231
i7 xDrive50 Sedan (21" Summer Tires)	494	A (A)	LDV	5975	6500	7231
i7 xDrive60 Sedan (20" All-Season Tires)	499	A (A)	LDV	6089	6500	7253
i7 xDrive60 Sedan (20" Summer Tires)	497	A (A)	LDV	6089	6500	7253
i7 xDrive60 Sedan (21" All-Season Tires)	500	A (A)	LDV	6089	6500	7253
i7 xDrive60 Sedan (21" Summer Tires)	498	A (A)	LDV	6089	6500	7253

12.1.2. Drive Train Information

Model Name	Carline	Trans	Gear	Engine Code	Axle ratio	
					front	rear
i7 xDrive50 Sedan (20" All-Season Tires)	495	A (A)	1	XE2A02N2G70X	8.77	9.37
i7 xDrive50 Sedan (20" Summer Tires)	493	A (A)	1	XE2A02N2G70X	8.77	9.37
i7 xDrive50 Sedan (21" All-Season Tires)	496	A (A)	1	XE2A02N2G70X	8.77	9.37
i7 xDrive50 Sedan (21" Summer Tires)	494	A (A)	1	XE2A02N2G70X	8.77	9.37
i7 xDrive60 Sedan (20" All-Season Tires)	499	A (A)	1	XE2A02N2G70X1	8.77	9.37
i7 xDrive60 Sedan (20" Summer Tires)	497	A (A)	1	XE2A02N2G70X1	8.77	9.37
i7 xDrive60 Sedan (21" All-Season Tires)	500	A (A)	1	XE2A02N2G70X1	8.77	9.37
i7 xDrive60 Sedan (21" Summer Tires)	498	A (A)	1	XE2A02N2G70X1	8.77	9.37

12.1.3. Tire Information

Modell	Carline	Trans	Road Load CFG	Tire Front	Tire Rear
i7 xDrive50 Sedan (20" Summer Tires)	493	A	41	255/45 R20 105Y STD	285/40 R20 108Y STD
i7 xDrive50 Sedan (21" Summer Tires)	494	A	42	255/40 R21 102Y STD	285/35 R21 105Y STD
i7 xDrive50 Sedan (20" All-Season Tires)	495	A	43	255/45 R20 105H M+S STD	285/40 R20 108H M+S STD
i7 xDrive50 Sedan (21" All-Season Tires)	496	A	44	255/40 R21 102H M+S STD	285/35 R21 108H M+S STD
i7 xDrive60 Sedan (20" Summer Tires)	497	A	41	255/45 R20 105Y STD	285/40 R20 108Y STD
i7 xDrive60 Sedan (21" Summer Tires)	498	A	42	255/40 R21 102Y STD	285/35 R21 105Y STD
i7 xDrive60 Sedan (20" All-Season Tires)	499	A	43	255/45 R20 105H M+S STD	285/40 R20 108H M+S STD
i7 xDrive60 Sedan (21" All-Season Tires)	500	A	44	255/40 R21 102H M+S STD	285/35 R21 108H M+S STD

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. Certification Region

FA

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 and Tires

Modell	Carline	Trans	Road Load CFG	A [lbf]	B [lbf/mph]	C [lbf/mph ²]	a [lbf]	b [lbf/mph]	c [lbf/mph ²]	TRLHP
i7 xDrive50 Sedan (20" Summer Tires)	493	A	41	37.9	0.166	0.01737	-4.3	0.075	0.01671	12.0
i7 xDrive60 Sedan (20" Summer Tires)	497	A	41	37.9	0.166	0.01737	0.3	0.028	0.01655	12.0
i7 xDrive60 Sedan (21" Summer Tires)	498	A	42	38.9	0.170	0.01824	1.9	-0.056	0.01845	12.4
i7 xDrive50 Sedan (21" Summer Tires)	494	A	42	38.9	0.170	0.01824	-0.2	-0.054	0.01863	12.4
i7 xDrive60 Sedan (20" All-Season Tires)	499	A	43	43.6	0.183	0.01689	not applicable	not applicable	not applicable	12.7
i7 xDrive50 Sedan (20" All-Season Tires)	495	A	43	43.6	0.183	0.01689	not applicable	not applicable	not applicable	12.7
i7 xDrive50 Sedan (21" All-Season Tires)	496	A	44	42.3	0.179	0.01810	1.3	0.030	0.01778	12.9
i7 xDrive60 Sedan (21" All-Season Tires)	500	A	44	42.3	0.179	0.01810	3.1	0.076	0.01717	12.9

Modell	Carline	Trans	Road Load CFG	N/V front	N/V rear	Grill Shutter
i7 xDrive50 Sedan (20" Summer Tires)	493	A	41	104.8	112	Yes
i7 xDrive60 Sedan (20" Summer Tires)	497	A	41	104.8	112	Yes
i7 xDrive60 Sedan (21" Summer Tires)	498	A	42	104.8	112	Yes
i7 xDrive50 Sedan (21" Summer Tires)	494	A	42	104.8	112	Yes
i7 xDrive50 Sedan (20" All-Season Tires)	495	A	43	104.8	112	Yes
i7 xDrive60 Sedan (20" All-Season Tires)	499	A	43	104.8	112	Yes
i7 xDrive50 Sedan (21" All-Season Tires)	496	A	44	104.8	112	Yes
i7 xDrive60 Sedan (21" All-Season Tires)	500	A	44	104.8	112	Yes

Road Load Configuration Description

X_	means number of tire groups used for this model
41	Road Load configuration
42	Road Load configuration
43	Road Load configuration
44	Road Load configuration

12.3. Electric vehicle system description

12.3.1 Description of electric motor

Model Name	Type	Front Power (peak) [kW]	Max. torque [Nm]	Type	Rear Power (peak) [kW]	Max. torque [Nm]
i7 xDrive50 Sedan (20" All-Season Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i7 xDrive50 Sedan (20" Summer Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i7 xDrive50 Sedan (21" All-Season Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i7 xDrive50 Sedan (21" Summer Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i7 xDrive60 Sedan (20" All-Season Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i7 xDrive60 Sedan (20" Summer Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i7 xDrive60 Sedan (21" All-Season Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i7 xDrive60 Sedan (21" Summer Tires)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400

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
i7 xDrive50 Sedan (20" All-Season Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000
i7 xDrive50 Sedan (20" Summer Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000
i7 xDrive50 Sedan (21" All-Season Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000
i7 xDrive50 Sedan (21" Summer Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000
i7 xDrive60 Sedan (20" All-Season Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000
i7 xDrive60 Sedan (20" Summer Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000
i7 xDrive60 Sedan (21" All-Season Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000
i7 xDrive60 Sedan (21" Summer Tires)	Li-Ion	324.5	118.10	364.0	250.0	1	5	1000

Model Name	Cell format	Min. Voltage Cell [V]	Weight [kg]	Specific Energy Density [Wh/kg]	Chemistry Identifier
i7 xDrive50 Sedan (20" All-Season Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F
i7 xDrive50 Sedan (20" Summer Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F
i7 xDrive50 Sedan (21" All-Season Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F
i7 xDrive50 Sedan (21" Summer Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F
i7 xDrive60 Sedan (20" All-Season Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F
i7 xDrive60 Sedan (20" Summer Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F
i7 xDrive60 Sedan (21" All-Season Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F
i7 xDrive60 Sedan (21" Summer Tires)	cylindrical	2.50	697.6	169	Li MM (NRMCM)-CSi.F

Battery specific energy data are determined in accordance with U.S. Advanced Battery Consortium's Electric Vehicle Battery Procedure No. 2 (Constant Current Discharge Test Series).

12.3.3. Description of thermal management

	Component	Medium
battery	electric heater	coolant
	chiller (heat exchanger) evaporator	refrigerant / coolant
cooling module	radiation / fan	air / coolant
	condenser	air or coolant / refrigerant
electric motor	chiller (heat exchanger) evaporator	refrigerant / coolant
passenger compartment	evaporator	refrigerant / air
	electric heater	coolant
	heat exchanger	coolant / air

12.3.4. Description of battery charger

The charger is capable of charging with different rates. For each charging power, the following approximate charge rates apply:

Model Name	Current Type Charging Source	Charging Power [kW]	Voltage [V]	Rated Current [A]	Charging Rates [hh:mm]
i7 xDrive50 Sedan (20" All-Season Tires) i7 xDrive50 Sedan (20" Summer Tires) i7 xDrive50 Sedan (21" All-Season Tires)	AC	1.4	120	12	100:30

i7 xDrive50 Sedan (21" Summer Tires) i7 xDrive60 Sedan (20" All-Season Tires) i7 xDrive60 Sedan (20" Summer Tires) i7 xDrive60 Sedan (21" All-Season Tires) i7 xDrive60 Sedan (21" Summer Tires)					
i7 xDrive50 Sedan (20" All-Season Tires) i7 xDrive50 Sedan (20" Summer Tires) i7 xDrive50 Sedan (21" All-Season Tires) i7 xDrive50 Sedan (21" Summer Tires) i7 xDrive60 Sedan (20" All-Season Tires) i7 xDrive60 Sedan (20" Summer Tires) i7 xDrive60 Sedan (21" All-Season Tires) i7 xDrive60 Sedan (21" Summer Tires)	AC	7.6	240	32	16:30
i7 xDrive50 Sedan (20" All-Season Tires) i7 xDrive50 Sedan (20" Summer Tires) i7 xDrive50 Sedan (21" All-Season Tires) i7 xDrive50 Sedan (21" Summer Tires) i7 xDrive60 Sedan (20" All-Season Tires) i7 xDrive60 Sedan (20" Summer Tires) i7 xDrive60 Sedan (21" All-Season Tires) i7 xDrive60 Sedan (21" Summer Tires)	AC	9.6	240	40	13:00
i7 xDrive50 Sedan (20" All-Season Tires) i7 xDrive50 Sedan (20" Summer Tires) i7 xDrive50 Sedan (21" All-Season Tires) i7 xDrive50 Sedan (21" Summer Tires) i7 xDrive60 Sedan (20" All-Season Tires) i7 xDrive60 Sedan (20" Summer Tires) i7 xDrive60 Sedan (21" All-Season Tires) i7 xDrive60 Sedan (21" Summer Tires)	AC	11.5	240	48	11:00

Model Name	Current Type Charging Source	Max. Charging Power [kW]
i7 xDrive50 Sedan (20" All-Season Tires) i7 xDrive50 Sedan (20" Summer Tires) i7 xDrive50 Sedan (21" All-Season Tires) i7 xDrive50 Sedan (21" Summer Tires) i7 xDrive60 Sedan (20" All-Season Tires) i7 xDrive60 Sedan (20" Summer Tires) i7 xDrive60 Sedan (21" All-Season Tires) i7 xDrive60 Sedan (21" Summer Tires)	DC	240

The conductive charging port meets SAE J3400 (NACS).

12.4. Information on driver selectable modes for Test Vehicle

VID	Drive Mode
CW30571	FTP and HWY depleting testing is done in drive mode "Personal" (comfortable) and drive selector "D". Recuperation settings have no influence on energy consumption and E-range at dynamometer testing.
CW53343	FTP and HWY depleting testing is done in drive mode "Personal" (comfortable) and drive selector "D". Recuperation settings have no influence on energy consumption and E-range at dynamometer testing.

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 VBMXV00.0G7A.

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
493	i7 xDrive50 Sedan (20" Summer Tires)	see attachment: 03VE-VG7A-01
494	i7 xDrive50 Sedan (21" Summer Tires)	
495	i7 xDrive50 Sedan (20" All-Season Tires)	
496	i7 xDrive50 Sedan (21" All-Season Tires)	
497	i7 xDrive60 Sedan (20" Summer Tires)	
498	i7 xDrive60 Sedan (21" Summer Tires)	
499	i7 xDrive60 Sedan (20" All-Season Tires)	
500	i7 xDrive60 Sedan (21" All-Season Tires)	

17. Attachment

- | | | |
|------|--|-------------------------------------|
| 17.1 | VECI Label | see attachment: 03VE-VG7A-01 |
| 17.2 | Certification Summary Information Report | see attachment:
CSI-VBMXV00.0G7A |

DRAFT - Inverted Representation

	Bayerische Motoren Werke AG	
VEHICLE EMISSION CONTROL INFORMATION		
Conforms to regulations:		MY 2027
U.S. EPA: Tier 4 - Bin 0 LDV		Fuel: electricity Li+
California:	Conforms to U.S. EPA regulations and is certified for sale in California	
No adjustments needed.		Fuel: electricity Li+
Group: VBMXV00.0G7A		
		8 900 558

Original representation

Base: Black
Characters: Silver

Certification Summary Information Report

Manufacturer	BMW	Manufacturer Code	BMX
Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/13/2026 03:43:02 AM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VBMXEEVNNBEV	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	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VBMXV00.0G7A
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VBMXV00.0G7A		Evaporative/Refueling Family		--		
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
BMW	1 - BMW	498 - i7 xDrive60 Sedan (21" Summer Tires)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	497 - i7 xDrive60 Sedan (20" Summer Tires)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	500 - i7 xDrive60 Sedan (21" All-Season Tires)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	494 - i7 xDrive50 Sedan (21" Summer Tires)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	493 - i7 xDrive50 Sedan (20" Summer Tires)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	499 - i7 xDrive60 Sedan (20" All-Season Tires)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	496 - i7 xDrive50 Sedan (21" All-Season Tires)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	495 - i7 xDrive50 Sedan (20" All-Season Tires)	Federal	All Wheel Drive	Automatic	1	No
Engine Description							
Hybrid Type		--		Hybrid Description		--	
Engine Type		--		Mfr Engine Description		--	
Engine Block Arrangement		--		Mfr Engine Block Arrangement Description		--	
Camless Valvetrain Indicator		--		Oil Viscosity/Classification		--	
Number of Cylinders/Rotors		--		Mechanically Variable Compression Ratio Indicator		--	
After Treatment Device(s) (ATD)							
Mfr After Treatment Device (ATD) Comments		--					
Direct Ozone Reduction (DOR) Device		--					
Mfr Emission Control Device Comments		--					

Certification Summary Information Report

Test Group		VBMXV00.0G7A				Evaporative/Refueling Family		--		
Official Test Numbers										
Test Group						EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Fuel	FTP	US06	SC03	Cold CO	Highway					
Electricity	--	--	--	--	--	--	--	--	--	--
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		364				Battery Energy Capacity		324.5		
Battery Specific Energy		169				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		Yes		
Mfr Regenerative Braking Description		--								
Drive Motor(s)/Generator(s)		2								
Motor/Generator Type 1		EESM				Rated Motor/Generator Power		230		
Motor/Generator Type 2		EESM				Rated Motor/Generator Power		190		
Mfr Fuel Cell Description		--								
Fuel Cell On-Board H2 Storage Capacity (kg)		--				Usable H2 Fill Capacity (kg)		--		
Mfr Hybrid Electric/ Electric Vehicle Comments		Motor/Generator Type: externally excited synchronuous machine (EESM)								

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CW30571 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VBMXV00.0G7A	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2027								
Vehicle Model									
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i7 xDrive60 Sedan (20" Summer Tires)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
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	Yes								
Odometer Correction -- Initial	0	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	XE2A02N2G70X1	Rated Horsepower	1						
Displacement (liters)	0.001								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6089	Equivalent Test Weight (pounds)	6500						
GVWR (lbs)	7253	N/V Ratio	1						
Axle Ratio	1								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	VBMXV00.0G7A			Evaporative/Refueling Family			--
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	37.9	0.166	0.01737	0.3	0.028	0.01655	
US06	37.9	0.166	0.01737	0.3	0.028	0.01655	
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CW30571_00_FEDV_i7 xDrive60 Sedan (20" Summer Tires)_A_ETW-6500_RG41_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 104.8; N/V ratio rear: 112.0; Power (peak) front: 190kW; Power (peak) rear: 230kW						

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Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.286</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.615</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.141</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.528</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.3457</td></tr><tr><td>Manufacturer Fuel Economy</td><td>22.8047</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.286	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.615	Drive Trace Energy Economy Rating	-0.141	Drive Trace Inertia Work Ratio Rating	-0.528	Integrated DC KW-HRS	2.3457	Manufacturer Fuel Economy	22.8047		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	10.286																				
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Manufacturer Fuel Economy	22.8047																				
Charge Depleting Bag/Phase #3																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.459</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.192</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.129</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>0.103</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.7454</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.3989</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.459	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.192	Drive Trace Energy Economy Rating	-0.129	Drive Trace Inertia Work Ratio Rating	0.103	Integrated DC KW-HRS	1.7454	Manufacturer Fuel Economy	23.3989		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.459																				
Carbon dioxide	0																				
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Drive Trace Inertia Work Ratio Rating	0.103																				
Integrated DC KW-HRS	1.7454																				
Manufacturer Fuel Economy	23.3989																				
Charge Depleting Bag/Phase #4																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>348.257</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>99.99</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>99.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>92.8856</td></tr><tr><td>Manufacturer Fuel Economy</td><td>26.6716</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	348.257	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	99.99	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	92.8856	Manufacturer Fuel Economy	26.6716		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	348.257																				
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Drive Trace Absolute Speed Change Rating	99.99																				
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Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	92.8856																				
Manufacturer Fuel Economy	26.6716																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.447
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-0.022
		Drive Trace Energy Economy Rating	-0.317
		Drive Trace Inertia Work Ratio Rating	-0.294
		Integrated DC KW-HRS	1.6633
		Manufacturer Fuel Economy	22.335
Charge Depleting Bag/Phase #6			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	10.283
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-0.811
		Drive Trace Energy Economy Rating	-0.198
		Drive Trace Inertia Work Ratio Rating	-0.797
		Integrated DC KW-HRS	2.2394
		Manufacturer Fuel Economy	21.7792
Charge Depleting Bag/Phase #7			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.448
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-0.018
		Drive Trace Energy Economy Rating	-0.344
		Drive Trace Inertia Work Ratio Rating	-0.297
		Integrated DC KW-HRS	1.7032
		Manufacturer Fuel Economy	22.8666
Charge Depleting Bag/Phase #8			

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>46.861</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>99.99</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>99.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>12.5599</td></tr><tr><td>Manufacturer Fuel Economy</td><td>26.8022</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	46.861	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	99.99	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	12.5599	Manufacturer Fuel Economy	26.8022
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	46.861																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	99.99																				
Drive Trace Energy Economy Rating	99.99																				
Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	12.5599																				
Manufacturer Fuel Economy	26.8022																				
Manufacturer Test Comments01_MCT_CW30571_00_FEDV_i7 xDrive60 Sedan (20" Summer Tires)_A_ETW-6500_RG41_default mode_D; MCT UBE energy = 117021 Wh																					
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 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	CW30571 / 1	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	VBMXV00.0G7A	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i7 xDrive60 Sedan (21" Summer Tires)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
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	Yes							
Odometer Correction -- Initial	0	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	XE2A02N2G70X1	Rated Horsepower	1					
Displacement (liters)	0.001							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	6089	Equivalent Test Weight (pounds)	6500					
GVWR (lbs)	7253	N/V Ratio	1					
Axle Ratio	1							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group	VBMXV00.0G7A			Evaporative/Refueling Family			--
Dynamometer Coefficients:							
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	38.9	0.17	0.01824	1.9	-0.056	0.01845	12.4
US06	38.9	0.17	0.01824	1.9	-0.056	0.01845	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CW30571_01_FEDV_i7 xDrive60 Sedan (21" Summer Tires)_A_ETW-6500_RG42_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 104.8; N/V ratio rear: 112.0; Power (peak) front: 190kW; Power (peak) rear: 230kW						

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
Test #	VBMX10094136	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/30/2026	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7168	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
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	133.05
Charge Depleting Range (Calculated miles)	491.959	Charge Depleting Range (Actual miles)	491.959
Charge Depleting Range Highway (Calculated miles)	501.974	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	491.959
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.448	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.066	
Drive Trace Energy Economy Rating		-0.293	
Drive Trace Inertia Work Ratio Rating		-0.225	
Integrated DC KW-HRS		2.0505	
Manufacturer Fuel Economy		27.5307	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.284
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.689
Drive Trace Energy Economy Rating	-0.185
Drive Trace Inertia Work Ratio Rating	-0.628
Integrated DC KW-HRS	2.4517
Manufacturer Fuel Economy	23.8389

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.454
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.227
Drive Trace Energy Economy Rating	-0.103
Drive Trace Inertia Work Ratio Rating	0.068
Integrated DC KW-HRS	1.8231
Manufacturer Fuel Economy	24.4571

Charge Depleting Bag/Phase #4

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	331.692
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	99.99
Drive Trace Energy Economy Rating	99.99
Drive Trace Inertia Work Ratio Rating	99.99
Integrated DC KW-HRS	92.4958
Manufacturer Fuel Economy	27.8861

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.439
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.022
Drive Trace Energy Economy Rating	-0.349
Drive Trace Inertia Work Ratio Rating	-0.368
Integrated DC KW-HRS	1.7148
Manufacturer Fuel Economy	23.0516

Charge Depleting Bag/Phase #6

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.28
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.8
Drive Trace Energy Economy Rating	-0.16
Drive Trace Inertia Work Ratio Rating	-0.799
Integrated DC KW-HRS	2.3364
Manufacturer Fuel Economy	22.728

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.443
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.005
Drive Trace Energy Economy Rating	-0.302
Drive Trace Inertia Work Ratio Rating	-0.333
Integrated DC KW-HRS	1.7537
Manufacturer Fuel Economy	23.5616

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>43.614</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>99.99</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>99.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>12.251</td></tr><tr><td>Manufacturer Fuel Economy</td><td>28.09</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	43.614	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	99.99	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	12.251	Manufacturer Fuel Economy	28.09
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	43.614																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	99.99																				
Drive Trace Energy Economy Rating	99.99																				
Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	12.251																				
Manufacturer Fuel Economy	28.09																				
Manufacturer Test Comments01_MCT_CW30571_01_FEDV_i7 xDrive60 Sedan (21" Summer Tires)_A_ETW-6500_RG42_default mode_D; MCT UBE energy = 116877 Wh																					
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 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	CW30571 / 2	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	VBMXV00.0G7A	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i7 xDrive60 Sedan (21" All-Season Tires)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
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	Yes							
Odometer Correction -- Initial	0	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	XE2A02N2G70X1	Rated Horsepower	1					
Displacement (liters)	0.001							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	6089	Equivalent Test Weight (pounds)	6500					
GVWR (lbs)	7253	N/V Ratio	1					
Axle Ratio	1							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group	VBMXV00.0G7A			Evaporative/Refueling Family			--
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	42.3	0.179	0.0181	3.1	0.076	0.01717	
US06	42.3	0.179	0.0181	3.1	0.076	0.01717	
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CW30571_02_FEDV_i7 xDrive60 Sedan (21" All-Season Tires)_A_ETW-6500_RG44_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 104.8; N/V ratio rear: 112.0; Power (peak) front: 190kW; Power (peak) rear: 230kW						

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Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.284</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.74</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.16</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.69</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.4927</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.2385</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.284	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.74	Drive Trace Energy Economy Rating	-0.16	Drive Trace Inertia Work Ratio Rating	-0.69	Integrated DC KW-HRS	2.4927	Manufacturer Fuel Economy	24.2385		
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Charge Depleting Bag/Phase #3																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.455</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.154</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.176</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.018</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.8233</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.4561</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.455	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.154	Drive Trace Energy Economy Rating	-0.176	Drive Trace Inertia Work Ratio Rating	-0.018	Integrated DC KW-HRS	1.8233	Manufacturer Fuel Economy	24.4561		
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Manufacturer Fuel Economy	24.4561																				
Charge Depleting Bag/Phase #4																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>323.117</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>99.99</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>99.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>92.2605</td></tr><tr><td>Manufacturer Fuel Economy</td><td>28.5533</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	323.117	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	99.99	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	92.2605	Manufacturer Fuel Economy	28.5533		
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Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.444</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.098</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.434</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.489</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.7368</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.333</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.444	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.098	Drive Trace Energy Economy Rating	-0.434	Drive Trace Inertia Work Ratio Rating	-0.489	Integrated DC KW-HRS	1.7368	Manufacturer Fuel Economy	23.333		
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Integrated DC KW-HRS	1.7368																				
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Charge Depleting Bag/Phase #6																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.28</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.908</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.208</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.927</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.3799</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.1501</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.28	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.908	Drive Trace Energy Economy Rating	-0.208	Drive Trace Inertia Work Ratio Rating	-0.927	Integrated DC KW-HRS	2.3799	Manufacturer Fuel Economy	23.1501		
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Charge Depleting Bag/Phase #7																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.446</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.032</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.326</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.335</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.7559</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.5809</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.446	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.032	Drive Trace Energy Economy Rating	-0.326	Drive Trace Inertia Work Ratio Rating	-0.335	Integrated DC KW-HRS	1.7559	Manufacturer Fuel Economy	23.5809		
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Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G7A			Evaporative/Refueling Family			--					

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	CW53343 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	VBMXV00.0G7A	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i7 xDrive50 Sedan (20" Summer Tires)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
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	Yes							
Odometer Correction -- Initial	0	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	XE2A02N2G70X	Rated Horsepower	1					
Displacement (liters)	0.001							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	5975	Equivalent Test Weight (pounds)	6500					
GVWR (lbs)	7231	N/V Ratio	1					
Axle Ratio	1							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		VBMXV00.0G7A			Evaporative/Refueling Family		--	
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	37.9	0.166	0.01737	-4.3	0.075	0.01671	12	
US06	37.9	0.166	0.01737	-4.3	0.075	0.01671	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		vi_CW53343_00_FEDV_i7 xDrive50 Sedan (20" Summer Tires)_A_ETW-6500_RG41_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 104.8; N/V ratio rear: 112.0; Power (peak) front: 190kW; Power (peak) rear: 230kW						

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
Test #	VBMX10094129	Test Procedure	77 - Multi-Cycle Test (MCT)																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	04/10/2026	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned																		
Verify Test Lab ID	EETZ Emissions Lab																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	5049	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																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	132.377																		
Charge Depleting Range (Calculated miles)	529.297	Charge Depleting Range (Actual miles)	529.297																		
Charge Depleting Range Highway (Calculated miles)	536.643	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	529.297																		
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase #1																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.451</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.028</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.325</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.218</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.8324</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.5942</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.451	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.028	Drive Trace Energy Economy Rating	-0.325	Drive Trace Inertia Work Ratio Rating	-0.218	Integrated DC KW-HRS	1.8324	Manufacturer Fuel Economy	24.5942
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Manufacturer Fuel Economy	24.5942																				
Charge Depleting Bag/Phase #2																					

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.288</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.516</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.109</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.375</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.2958</td></tr><tr><td>Manufacturer Fuel Economy</td><td>22.3147</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.288	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.516	Drive Trace Energy Economy Rating	-0.109	Drive Trace Inertia Work Ratio Rating	-0.375	Integrated DC KW-HRS	2.2958	Manufacturer Fuel Economy	22.3147		
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Drive Trace Inertia Work Ratio Rating	-0.375																				
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Manufacturer Fuel Economy	22.3147																				
Charge Depleting Bag/Phase #3																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.46</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.168</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.2</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>0.069</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.6958</td></tr><tr><td>Manufacturer Fuel Economy</td><td>22.7325</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.46	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.168	Drive Trace Energy Economy Rating	-0.2	Drive Trace Inertia Work Ratio Rating	0.069	Integrated DC KW-HRS	1.6958	Manufacturer Fuel Economy	22.7325		
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Drive Trace Inertia Work Ratio Rating	0.069																				
Integrated DC KW-HRS	1.6958																				
Manufacturer Fuel Economy	22.7325																				
Charge Depleting Bag/Phase #4																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>351.829</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>99.99</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>99.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>92.788</td></tr><tr><td>Manufacturer Fuel Economy</td><td>26.373</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	351.829	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	99.99	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	92.788	Manufacturer Fuel Economy	26.373		
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Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	99.99																				
Drive Trace Energy Economy Rating	99.99																				
Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	92.788																				
Manufacturer Fuel Economy	26.373																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.444
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.097
Drive Trace Energy Economy Rating	-0.458
Drive Trace Inertia Work Ratio Rating	-0.44
Integrated DC KW-HRS	1.599
Manufacturer Fuel Economy	21.4798

Charge Depleting Bag/Phase #6

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.28
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.671
Drive Trace Energy Economy Rating	-0.21
Drive Trace Inertia Work Ratio Rating	-0.622
Integrated DC KW-HRS	2.1813
Manufacturer Fuel Economy	21.2185

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.447
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.104
Drive Trace Energy Economy Rating	-0.43
Drive Trace Inertia Work Ratio Rating	-0.411
Integrated DC KW-HRS	1.6288
Manufacturer Fuel Economy	21.8729

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>48.067</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>99.99</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>99.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>12.7876</td></tr><tr><td>Manufacturer Fuel Economy</td><td>26.6036</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	48.067	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	99.99	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	12.7876	Manufacturer Fuel Economy	26.6036
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Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	12.7876																				
Manufacturer Fuel Economy	26.6036																				
Manufacturer Test Comments01_MCT_CW53343_00_FEDV_i7 xDrive50 Sedan (20" Summer Tires)_A_ETW-6500_RG41_default mode_D; MCT UBE energy = 116809 Wh																					
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 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--									

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	CW53343 / 1	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	VBMXV00.0G7A	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i7 xDrive50 Sedan (21" Summer Tires)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
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	Yes							
Odometer Correction -- Initial	0	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	XE2A02N2G70X	Rated Horsepower	1					
Displacement (liters)	0.001							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	5975	Equivalent Test Weight (pounds)	6500					
GVWR (lbs)	7231	N/V Ratio	1					
Axle Ratio	1							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group	VBMXV00.0G7A			Evaporative/Refueling Family			--
Dynamometer Coefficients:							
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	38.9	0.17	0.01824	-0.2	-0.054	0.01863	
US06	38.9	0.17	0.01824	-0.2	-0.054	0.01863	
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CW53343_01_FEDV_i7 xDrive50 Sedan (21" Summer Tires)_A_ETW-6500_RG42_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 104.8; N/V ratio rear: 112.0; Power (peak) front: 190kW; Power (peak) rear: 230kW						

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
Test #	VBMX10094130	Test Procedure	77 - Multi-Cycle Test (MCT)																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	04/29/2026	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned																		
Verify Test Lab ID	EETZ Emissions Lab																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	6594	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																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	133.798																		
Charge Depleting Range (Calculated miles)	517.499	Charge Depleting Range (Actual miles)	517.499																		
Charge Depleting Range Highway (Calculated miles)	522.673	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	517.499																		
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase #1																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.455</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.104</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.251</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.063</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.7936</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.0583</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.455	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.104	Drive Trace Energy Economy Rating	-0.251	Drive Trace Inertia Work Ratio Rating	-0.063	Integrated DC KW-HRS	1.7936	Manufacturer Fuel Economy	24.0583
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.455																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.104																				
Drive Trace Energy Economy Rating	-0.251																				
Drive Trace Inertia Work Ratio Rating	-0.063																				
Integrated DC KW-HRS	1.7936																				
Manufacturer Fuel Economy	24.0583																				
Charge Depleting Bag/Phase #2																					

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.287
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.558
Drive Trace Energy Economy Rating	-0.08
Drive Trace Inertia Work Ratio Rating	-0.442
Integrated DC KW-HRS	2.338
Manufacturer Fuel Economy	22.7266

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.458
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.113
Drive Trace Energy Economy Rating	-0.242
Drive Trace Inertia Work Ratio Rating	-0.015
Integrated DC KW-HRS	1.7193
Manufacturer Fuel Economy	23.0518

Charge Depleting Bag/Phase #4

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	339.854
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	99.99
Drive Trace Energy Economy Rating	99.99
Drive Trace Inertia Work Ratio Rating	99.99
Integrated DC KW-HRS	92.4634
Manufacturer Fuel Economy	27.2068

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.448
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.015
Drive Trace Energy Economy Rating	-0.324
Drive Trace Inertia Work Ratio Rating	-0.293
Integrated DC KW-HRS	1.6366
Manufacturer Fuel Economy	21.9747

Charge Depleting Bag/Phase #6

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.284
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.743
Drive Trace Energy Economy Rating	-0.161
Drive Trace Inertia Work Ratio Rating	-0.703
Integrated DC KW-HRS	2.2367
Manufacturer Fuel Economy	21.7494

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.445
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.03
Drive Trace Energy Economy Rating	-0.312
Drive Trace Inertia Work Ratio Rating	-0.242
Integrated DC KW-HRS	1.6587
Manufacturer Fuel Economy	22.2794

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group		VBMXV00.0G7A		Evaporative/Refueling Family				--			

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	CW53343 / 2	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	VBMXV00.0G7A	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i7 xDrive50 Sedan (21" All-Season Tires)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
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	Yes							
Odometer Correction -- Initial	0	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	XE2A02N2G70X	Rated Horsepower	1					
Displacement (liters)	0.001							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	5975	Equivalent Test Weight (pounds)	6500					
GVWR (lbs)	7231	N/V Ratio	1					
Axle Ratio	1							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group	VBMXV00.0G7A			Evaporative/Refueling Family			--
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	42.3	0.179	0.0181	1.3	0.03	0.01778	
US06	42.3	0.179	0.0181	1.3	0.03	0.01778	
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CW53343_02_FEDV_i7 xDrive50 Sedan (21" All-Season Tires)_A_ETW-6500_RG44_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 104.8; N/V ratio rear: 112.0; Power (peak) front: 190kW; Power (peak) rear: 230kW						

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
Test #	VBMX10094131	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/24/2026	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5887	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
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	132.676
Charge Depleting Range (Calculated miles)	504.511	Charge Depleting Range (Actual miles)	504.511
Charge Depleting Range Highway (Calculated miles)	508.076	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	504.511
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.461	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.117	
Drive Trace Energy Economy Rating		-0.241	
Drive Trace Inertia Work Ratio Rating		0.022	
Integrated DC KW-HRS		1.9106	
Manufacturer Fuel Economy		25.6074	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--																		
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.289</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.676</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.095</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.591</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.4203</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.523</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.289	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.676	Drive Trace Energy Economy Rating	-0.095	Drive Trace Inertia Work Ratio Rating	-0.591	Integrated DC KW-HRS	2.4203	Manufacturer Fuel Economy	23.523		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	10.289																				
Carbon dioxide	0																				
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Drive Trace Inertia Work Ratio Rating	-0.591																				
Integrated DC KW-HRS	2.4203																				
Manufacturer Fuel Economy	23.523																				
Charge Depleting Bag/Phase #3																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.46</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.076</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.236</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.004</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.7773</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.8254</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.46	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.076	Drive Trace Energy Economy Rating	-0.236	Drive Trace Inertia Work Ratio Rating	-0.004	Integrated DC KW-HRS	1.7773	Manufacturer Fuel Economy	23.8254		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.46																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.076																				
Drive Trace Energy Economy Rating	-0.236																				
Drive Trace Inertia Work Ratio Rating	-0.004																				
Integrated DC KW-HRS	1.7773																				
Manufacturer Fuel Economy	23.8254																				
Charge Depleting Bag/Phase #4																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>332.245</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>99.99</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>99.99</td></tr><tr><td>Integrated DC KW-HRS</td><td>92.7351</td></tr><tr><td>Manufacturer Fuel Economy</td><td>27.9116</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	332.245	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	99.99	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	92.7351	Manufacturer Fuel Economy	27.9116		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	332.245																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	99.99																				
Drive Trace Energy Economy Rating	99.99																				
Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	92.7351																				
Manufacturer Fuel Economy	27.9116																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G7A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.444
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.197
Drive Trace Energy Economy Rating	-0.52
Drive Trace Inertia Work Ratio Rating	-0.622
Integrated DC KW-HRS	1.683
Manufacturer Fuel Economy	22.6087

Charge Depleting Bag/Phase #6

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.283
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.746
Drive Trace Energy Economy Rating	-0.209
Drive Trace Inertia Work Ratio Rating	-0.711
Integrated DC KW-HRS	2.3105
Manufacturer Fuel Economy	22.4697

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.448
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.019
Drive Trace Energy Economy Rating	-0.226
Drive Trace Inertia Work Ratio Rating	-0.203
Integrated DC KW-HRS	1.7072
Manufacturer Fuel Economy	22.9204

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VBMXV00.0G7A				Evaporative/Refueling Family				--			
	Test Result/Emission Name					Unrounded Test Result						
	Actual Distance Driven (miles)					43.622						
	Carbon dioxide					0						
	Carbon-Related Exhaust Emissions					0						
	Drive Trace Absolute Speed Change Rating					99.99						
	Drive Trace Energy Economy Rating					99.99						
	Drive Trace Inertia Work Ratio Rating					99.99						
	Integrated DC KW-HRS					12.2951						
	Manufacturer Fuel Economy					28.1857						
Manufacturer Test Comments				01_MCT_CW53343_02_FEDV_i7 xDrive50 Sedan (21" All-Season Tires)_A_ETW-6500_RG44_default mode_D; MCT UBE energy = 116839 Wh								
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 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
Fuel Properties												

Certification Summary Information Report

Test Group		VBMXV00.0G7A			Evaporative/Refueling Family			--		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 0		
Fuel		Electricity			Test Procedure			Multi-Cycle Test (MCT)		
						Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor			
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC				Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	1	--	0
150,000 miles	CO	--	--	--	--	--	--	1	--	0

Certification Summary Information Report

Test Group		VBMXV00.0G7A	Evaporative/Refueling Family		--
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		VBMXV00.0G7A	Evaporative/Refueling Family		--
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	

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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		

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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		