

Application for Certification

Model Year: 2027
 Manufacturer Name: BMW

Test Group: VBMXV00.0G6B
 Test Group Description: electric, BEV

Vehicle Class: EPA
 LDV

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

Carlines Covered: i5 xDrive40 Sedan (19" Wheels), i5 xDrive40 Sedan (20" Wheels), i5 xDrive40 Sedan (21" Wheels)

Comprehensive List of Tests:

Multi-Cycle-Test:

Model	VID	CFG	Road Load CFG	Multi-Cycle-Test
i5 xDrive40 Sedan (20" Wheels)	CV71119	00	41	VBMX10093066
i5 xDrive40 Sedan (19" Wheels)	CV71119	01	42	VBMX10093067
i5 xDrive40 Sedan (20" Wheels)	CV71119	02	43	VBMX10093068
i5 xDrive40 Sedan (21" Wheels)	CV71119	03	44	VBMX10093069

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

Table of Contents

Section Contents

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

1. Correspondence and Communications

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

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

2. Durability Group Description

2.1. not applicable

3. Evaporative / Refueling Family Description

not applicable

4. Durability Procedure Description

not applicable

5. Test Group Description

5.1.	Test Group Name	VBMXV00.0G6B
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
CV71119	00	424	i5 xDrive40 Sedan (20" Wheels)	A-1	41
CV71119	01	423	i5 xDrive40 Sedan (19" Wheels)	A-1	42
CV71119	02	424	i5 xDrive40 Sedan (20" Wheels)	A-1	43
CV71119	03	425	i5 xDrive40 Sedan (21" Wheels)	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-VBMXV00.0G6B

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**Battery Durability**

According to 40 CFR §86.1815-27 (h) we choose the option to comply with monitor accuracy and battery durability requirements based on the procedures specified in CCR, title 13, §1962.7. According to 40 CFR §86.1815-27 (h)(8)(iii) we state as the manufacturer that vehicles covered by this test group meet the design targets according to 40 CFR §86.1815-27 (h)(2).

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 judgment, that all vehicles included in this application comply with all the emission standards and related requirements of Part 86, subpart S, instead of submitting test data.

State of Health Indication Accuracy

According to 40 CFR 86.1815-27(h)(8)(ii) we state as the manufacturer that the SOCE monitor of all vehicles covered by this test group meet the accuracy requirement appropriate for the model year as given in Title 13 CCR Section 1962.7 (e)(5)(B).

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]
i5 xDrive40 Sedan (19" Wheels)	423	A (A)	LDV	5163	5500	6338
i5 xDrive40 Sedan (20" Wheels)	424	A (A)	LDV	5163	5500	6338
i5 xDrive40 Sedan (21" Wheels)	425	A (A)	LDV	5163	5500	6338

12.1.2. Drive Train Information

Model Name	Carline	Trans	Gear	Engine Code	Axle ratio	
					front	rear
i5 xDrive40 Sedan (19" Wheels)	423	A (A)	1	XE2A02N1G60X	8.77	9.37
i5 xDrive40 Sedan (20" Wheels)	424	A (A)	1	XE2A02N1G60X	8.77	9.37
i5 xDrive40 Sedan (21" Wheels)	425	A (A)	1	XE2A02N1G60X	8.77	9.37

12.1.3. Tire Information

Modell	Carline	Trans	Road Load CFG	Tire Front	Tire Rear
i5 xDrive40 Sedan (19" Wheels)	423	A	42	245/45 R19 102Y STD	275/40 R19 105Y STD
				245/45 R19 102Y STD	245/45 R19 102Y STD
i5 xDrive40 Sedan (20" Wheels)	424	A	41	245/40 R20 99Y STD	275/35 R20 102Y STD
			43	245/40 R20 99H M+S STD	275/35 R20 102H M+S STD
i5 xDrive40 Sedan (21" Wheels)	425	A	44	255/35 R21 101Y STD	285/30 R21 103Y STD

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

12.1.4. 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
i5 xDrive40 Sedan (20" Wheels)	424	A	41	36.6	0.260	0.01510	3.7	0.052	0.01510	11.6
i5 xDrive40 Sedan (19" Wheels)	423	A	42	36.6	0.260	0.01541	3.7	0.052	0.01541	11.8
i5 xDrive40 Sedan (20" Wheels)	424	A	43	39.9	0.270	0.01591	5.8	0.102	0.01538	12.4
i5 xDrive40 Sedan (21" Wheels)	425	A	44	42.6	0.277	0.01679	10.0	0.089	0.01639	13.1

Modell	Carline	Trans	Road Load CFG	N/V front	N/V rear	Grill Shutter
i5 xDrive40 Sedan (20" Wheels)	424	A	41	109.8	117.3	Yes
i5 xDrive40 Sedan (19" Wheels)	423	A	42	109.8	117.3	Yes
i5 xDrive40 Sedan (20" Wheels)	424	A	43	109.8	117.3	Yes
i5 xDrive40 Sedan (21" Wheels)	425	A	44	109.8	117.3	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]
i5 xDrive40 Sedan (19" Wheels)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i5 xDrive40 Sedan (20" Wheels)	Separately excited synchronous motor	190 @ 8000	365	Separately excited synchronous motor	230 @ 8000	400
i5 xDrive40 Sedan (21" Wheels)	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
i5 xDrive40 Sedan (19" Wheels)	Lithium-Ionen	210.6	83.90	398.5	302.4	1	7	324
i5 xDrive40 Sedan (20" Wheels)	Lithium-Ionen	210.6	83.90	398.5	302.4	1	7	324
i5 xDrive40 Sedan (21" Wheels)	Lithium-Ionen	210.6	83.90	398.5	302.4	1	7	324

Model Name	Cell format	Min. Voltage Cell [V]	Weight [kg]	Specific Energy Density [Wh/kg]	Chemistry Identifier
i5 xDrive40 Sedan (19" Wheels)	prismatic	2.80	551.2	152	Li MM(NCA) - C.F
i5 xDrive40 Sedan (20" Wheels)	prismatic	2.80	551.2	152	Li MM(NCA) - C.F
i5 xDrive40 Sedan (21" Wheels)	prismatic	2.80	551.2	152	Li MM(NCA) - C.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	radiator / 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]
i5 xDrive40 Sedan (19" Wheels) i5 xDrive40 Sedan (20" Wheels) i5 xDrive40 Sedan (21" Wheels)	AC	7.6	240	32	12:15
i5 xDrive40 Sedan (19" Wheels) i5 xDrive40 Sedan (20" Wheels) i5 xDrive40 Sedan (21" Wheels)	AC	11.5	240	48	8:00
i5 xDrive40 Sedan (19" Wheels) i5 xDrive40 Sedan (20" Wheels) i5 xDrive40 Sedan (21" Wheels)	AC	9.6	240	40	9:45
i5 xDrive40 Sedan (19" Wheels) i5 xDrive40 Sedan (20" Wheels) i5 xDrive40 Sedan (21" Wheels)	AC	1.44	120	12	75:15

Model Name	Current Type Charging Source	Max. Charging Power [kW]
i5 xDrive40 Sedan (19" Wheels) i5 xDrive40 Sedan (20" Wheels) i5 xDrive40 Sedan (21" Wheels)	DC	205

The conductive charging port meets SAE J3400 (NACS).

12.4. Information on driver selectable modes for Test Vehicle

VID	Drive Mode
CV71119	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 VBMXV00.0G6B.

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
423	i5 xDrive40 Sedan (19" Wheels)	see attachment: 03VE-VG6B-01
424	i5 xDrive40 Sedan (20" Wheels)	
425	i5 xDrive40 Sedan (21" Wheels)	

17. Attachment

- 17.1 VECI Label see attachment: 03VE-VG6B-01
- 17.2 Certification Summary Information Report see attachment:
CSI-VBMXV00.0G6B

BMW

Designation

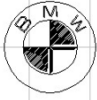
Attachment

VECI Label LDV, VBMXV00.0G6B

Date: 03.12.2025

03VE-VG6B-01

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 Fuel: electricity Li+

No adjustments needed.

Group: VBMXV00.0G6B



8 898 379

Original representation

Base: Black
Characters: Silver

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
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Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
BMW	1 - BMW	425 - i5 xDrive40 Sedan (21" Wheels)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	423 - i5 xDrive40 Sedan (19" Wheels)	Federal	All Wheel Drive	Automatic	1	No
BMW	1 - BMW	424 - i5 xDrive40 Sedan (20" Wheels)	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	--

Official Test Numbers

Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity		--	--	--	--	--	--	--	--	--	--

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	399	Battery Energy Capacity	210.6
Battery Specific Energy	152	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	--		

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
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Emission Data Vehicle Information

Vehicle ID / Configuration	CV71119 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VBMXV00.0G6B	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2027		
Vehicle Model			
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i5 xDrive40 Sedan (20" Wheels)

Leak Family Details

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

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes	Odometer Correction Factor	1
Odometer Correction -- Initial	0	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles	
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles	Rated Horsepower	1
Engine Code	XE2A02N1G60X	Air Aspiration Method, if 'Other'	
Displacement (liters)	0.001	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	All Wheel Drive
Number of Air Aspiration Devices	--	Aged Emission Components	4,000 (mi)
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	5500
Shift Indicator Light Usage	Not equipped	N/V Ratio	1
Curb Weight (lbs)	5163	# of Transmission Gears	1
GVWR (lbs)	6338	Creeper Gear	No
Axle Ratio	1		
Transmission Type	Automatic		
Transmission Lockup	No		

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	36.6	0.26	0.0151	3.7	0.052	0.0151	11.6
US06	36.6	0.26	0.0151	3.7	0.052	0.0151	N/A

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	vi_CV71119_00_FEDV_i5 xDrive40 Sedan (20" Wheels)_A_ETW-5500_RG41_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 109.8; N/V ratio rear: 117.3; Power (peak) front: 190kW; Power (peak) rear: 230kW		

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Test #	VBMX10093066	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	01/13/2026	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	8061	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)	94.884
Charge Depleting Range (Calculated miles)	410.115	Charge Depleting Range (Actual miles)	410.115
Charge Depleting Range Highway (Calculated miles)	398.55	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	410.115
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)		7.465	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.378	
Drive Trace Energy Economy Rating		-0.001	
Drive Trace Inertia Work Ratio Rating		0.368	
Integrated DC KW-HRS		1.6547	
Manufacturer Fuel Economy		22.1661	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>10.279</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>0.007</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.001</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.238</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.2137</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>21.5371</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.279	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.007	Drive Trace Energy Economy Rating	-0.001	Drive Trace Inertia Work Ratio Rating	0.238	Integrated DC KW-HRS	2.2137	Manufacturer Fuel Economy	21.5371
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Manufacturer Fuel Economy	21.5371																				
Charge Depleting Bag/Phase #3																					
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>7.466</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>0.387</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.07</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.465</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.5631</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.9365</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.466	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.387	Drive Trace Energy Economy Rating	0.07	Drive Trace Inertia Work Ratio Rating	0.465	Integrated DC KW-HRS	1.5631	Manufacturer Fuel Economy	20.9365
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Charge Depleting Bag/Phase #4																					
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>247.329</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>62.5289</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>25.2817</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	247.329	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	62.5289	Manufacturer Fuel Economy	25.2817
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	247.329																				
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	62.5289																				
Manufacturer Fuel Economy	25.2817																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
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Manufacturer Fuel Economy	20.2148																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	42.25
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	10.7059
Manufacturer Fuel Economy	25.3395

Manufacturer Test Comments

01_MCT_CV71119_00_FEDV_i5 xDrive40 Sedan (20" Wheels)_A_ETW-5500_RG41_default mode_D; MCT UBE energy = 83773 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	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--

Certification Summary Information Report

Test Group	VBMXV00.0G6B		Evaporative/Refueling Family	--						
Emission Data Vehicle Information										
Vehicle ID / Configuration	CV71119 / 1		Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VBMXV00.0G6B		Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2027									
Vehicle Model										
Represented Test Vehicle Make	BMW		Represented Test Vehicle Model	i5 xDrive40 Sedan (19" Wheels)						
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 Combustion	--						
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	Yes						
Fuel Cell Indicator	No		Rechargeable Energy Storage System, if 'Other'	--						
Rechargeable Energy Storage System	Battery(s)									
Off-board charge Capable Indicator	Yes		Odometer Correction Factor	1						
Odometer Correction -- Initial	0									
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles									
Odometer Correction Units	Miles									
Engine Code	XE2A02N1G60X		Rated Horsepower	1						
Displacement (liters)	0.001		Air Aspiration Method, if 'Other'							
Air Aspiration Method	Naturally Aspirated		Air Aspiration Device Configuration	--						
Number of Air Aspiration Devices	--		Drive Mode While Testing	All Wheel Drive						
Charge Air Cooler Type	--		Aged Emission Components	4,000 (mi)						
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	5500						
Curb Weight (lbs)	5163		N/V Ratio	1						
GVWR (lbs)	6338									
Axle Ratio	1		# of Transmission Gears	1						
Transmission Type	Automatic		Creeper Gear	No						
Transmission Lockup	No									
Dynamometer Coefficients:										
	Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients			
City/Highway/Evap	36.6	0.26	0.01541	3.7	0.052	0.01541	11.8			
Emission Control Device Comments	--									

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	vi_CV71119_01_FEDV_i5 xDrive40 Sedan (19" Wheels)_A_ETW-5500_RG42_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 109.8; N/V ratio rear: 117.3; Power (peak) front: 190kW; Power (peak) rear: 230kW		

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Test #	VBMX10093067	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/05/2025	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	6836	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)	95.618
Charge Depleting Range (Calculated miles)	409.689	Charge Depleting Range (Actual miles)	409.689
Charge Depleting Range Highway (Calculated miles)	397.801	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	409.689
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)		7.459	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.286	
Drive Trace Energy Economy Rating		-0.13	
Drive Trace Inertia Work Ratio Rating		0.243	
Integrated DC KW-HRS		1.6441	
Manufacturer Fuel Economy		22.0413	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
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Manufacturer Fuel Economy	21.6376																				
Charge Depleting Bag/Phase #3																					
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Charge Depleting Bag/Phase #4																					
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Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
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Manufacturer Fuel Economy	20.3877																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	37.348
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	9.6234
Manufacturer Fuel Economy	25.767

Manufacturer Test Comments

01_MCT_CV71119_01_FEDV_i5 xDrive40 Sedan (19" Wheels)_A_ETW-5500_RG42_default mode_D; MCT UBE energy = 84289 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	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--

Certification Summary Information Report

Test Group	VBMXV00.0G6B		Evaporative/Refueling Family	--						
Emission Data Vehicle Information										
Vehicle ID / Configuration	CV71119 / 2		Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VBMXV00.0G6B		Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2027									
Vehicle Model										
Represented Test Vehicle Make	BMW		Represented Test Vehicle Model	i5 xDrive40 Sedan (20" Wheels)						
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 Combustion	--						
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	Yes						
Fuel Cell Indicator	No		Rechargeable Energy Storage System, if 'Other'	--						
Rechargeable Energy Storage System	Battery(s)									
Off-board charge Capable Indicator	Yes		Odometer Correction Factor	1						
Odometer Correction -- Initial	0									
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles									
Odometer Correction Units	Miles									
Engine Code	XE2A02N1G60X		Rated Horsepower	1						
Displacement (liters)	0.001		Air Aspiration Method, if 'Other'							
Air Aspiration Method	Naturally Aspirated		Air Aspiration Device Configuration	--						
Number of Air Aspiration Devices	--		Drive Mode While Testing	All Wheel Drive						
Charge Air Cooler Type	--		Aged Emission Components	4,000 (mi)						
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	5500						
Curb Weight (lbs)	5163		N/V Ratio	1						
GVWR (lbs)	6338									
Axle Ratio	1		# of Transmission Gears	1						
Transmission Type	Automatic		Creeper Gear	No						
Transmission Lockup	No									
Dynamometer Coefficients:										
	Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients			
City/Highway/Evap	39.9	0.27	0.01591	5.8	0.102	0.01538	12.4			
Emission Control Device Comments	--									

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	vi_CV71119_02_FEDV_i5 xDrive40 Sedan (20" Wheels)_A_ETW-5500_RG43_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 109.8; N/V ratio rear: 117.3; Power (peak) front: 190kW; Power (peak) rear: 230kW		

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Test #	VBMX10093068	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/26/2025	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	3146	Odometer Units	M
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)	95.44
Charge Depleting Range (Calculated miles)	396.973	Charge Depleting Range (Actual miles)	396.973
Charge Depleting Range Highway (Calculated miles)	377.558	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	396.973
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)	7.489
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.629
Drive Trace Energy Economy Rating	0.268
Drive Trace Inertia Work Ratio Rating	0.984
Integrated DC KW-HRS	1.7107
Manufacturer Fuel Economy	22.8433

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
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Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
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Manufacturer Fuel Economy	20.8007																				
Charge Depleting Bag/Phase #6																					
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Manufacturer Fuel Economy	21.8055																				
Charge Depleting Bag/Phase #7																					
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Manufacturer Fuel Economy	21.0987																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	35.251
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	9.4817
Manufacturer Fuel Economy	26.8976

Manufacturer Test Comments

01_MCT_CV71119_02_FEDV_i5 xDrive40 Sedan (20" Wheels)_A_ETW-5500_RG43_default mode_D; MCT UBE energy = 84364 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	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--

Certification Summary Information Report

Test Group	VBMXV00.0G6B		Evaporative/Refueling Family	--						
Emission Data Vehicle Information										
Vehicle ID / Configuration	CV71119 / 3		Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VBMXV00.0G6B		Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2027									
Vehicle Model										
Represented Test Vehicle Make	BMW		Represented Test Vehicle Model	i5 xDrive40 Sedan (21" Wheels)						
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 Combustion	--						
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	Yes						
Fuel Cell Indicator	No		Rechargeable Energy Storage System, if 'Other'	--						
Rechargeable Energy Storage System	Battery(s)									
Off-board charge Capable Indicator	Yes		Odometer Correction Factor	1						
Odometer Correction -- Initial	0									
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles									
Odometer Correction Units	Miles									
Engine Code	XE2A02N1G60X		Rated Horsepower	1						
Displacement (liters)	0.001		Air Aspiration Method, if 'Other'							
Air Aspiration Method	Naturally Aspirated		Air Aspiration Device Configuration	--						
Number of Air Aspiration Devices	--		Drive Mode While Testing	All Wheel Drive						
Charge Air Cooler Type	--		Aged Emission Components	4,000 (mi)						
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	5500						
Curb Weight (lbs)	5163		N/V Ratio	1						
GVWR (lbs)	6338									
Axle Ratio	1		# of Transmission Gears	1						
Transmission Type	Automatic		Creeper Gear	No						
Transmission Lockup	No									
Dynamometer Coefficients:										
	Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients			
City/Highway/Evap	42.6	0.277	0.01679	10	0.089	0.01639	13.1			
Emission Control Device Comments	--									

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	vi_CV71119_03_FEDV_i5 xDrive40 Sedan (21" Wheels)_A_ETW-5500_RG44_default mode_D; Axle Ratio front: 8.774; Axle Ratio rear: 9.374; N/V ratio front: 109.8; N/V ratio rear: 117.3; Power (peak) front: 190kW; Power (peak) rear: 230kW		

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
Test #	VBMX10093069	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/28/2025	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	5656	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)	95.682
Charge Depleting Range (Calculated miles)	384.012	Charge Depleting Range (Actual miles)	384.012
Charge Depleting Range Highway (Calculated miles)	363.499	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	384.012
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)	7.455
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.312
Drive Trace Energy Economy Rating	-0.028
Drive Trace Inertia Work Ratio Rating	0.291
Integrated DC KW-HRS	1.7572
Manufacturer Fuel Economy	23.5705

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
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Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	63.6917																				
Manufacturer Fuel Economy	28.1823																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--																		
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Actual Distance Driven (miles)	7.456																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.194																				
Drive Trace Energy Economy Rating	-0.132																				
Drive Trace Inertia Work Ratio Rating	0.055																				
Integrated DC KW-HRS	1.6084																				
Manufacturer Fuel Economy	21.572																				
Charge Depleting Bag/Phase #6																					
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>10.277</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>-0.031</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.011</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.17</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.3386</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>22.756</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.277	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.031	Drive Trace Energy Economy Rating	-0.011	Drive Trace Inertia Work Ratio Rating	0.17	Integrated DC KW-HRS	2.3386	Manufacturer Fuel Economy	22.756
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Actual Distance Driven (miles)	7.453																				
Carbon dioxide	0																				
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Drive Trace Absolute Speed Change Rating	0.197																				
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Drive Trace Inertia Work Ratio Rating	0.086																				
Integrated DC KW-HRS	1.6275																				
Manufacturer Fuel Economy	21.8373																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	33.366
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	9.44
Manufacturer Fuel Economy	28.2923

Manufacturer Test Comments

01_MCT_CV71119_03_FEDV_i5 xDrive40 Sedan (21" Wheels)_A_ETW-5500_RG44_default mode_D; MCT UBE energy = 84595 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	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--

Fuel Properties

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	--						
Consolidated List of Standards									
Exhaust Standards									
Cert Region	Federal	Cert/In-Use Code	Cert						
Vehicle Class	LDV/Passenger Car	Standard Level	Other						
Fuel	Electricity	Test Procedure	Multi-Cycle Test (MCT)						
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	1	--	0
150,000 miles	CO	--	--	--	--	--	1	--	0

Certification Summary Information Report

Test Group	VBMXV00.0G6B	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	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		
Certification Region			

Certification Summary Information Report

Test Group	VBMXV00.0G6B	Evaporative/Refueling Family	
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125

Certification Summary Information Report

Test Group		VBMXV00.0G6B	Evaporative/Refueling Family		--
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)		M	Manual	
A	Automatic		OT	Other	
AM	Automated Manual		SA	Semi-Automatic	
CVT	Continuously Variable		SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
Drive System Code					
4	4-Wheel Drive		P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	