

Application for Certification

Model Year: 2027
 Manufacturer Name: BMW
 Test Group: VBMXV00.0G6A
 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 eDrive40 Sedan (19" Wheels), i5 eDrive40 Sedan (20" Wheels), i5 eDrive40 Sedan (21" Wheels)

Comprehensive List of Tests:

Multi-Cycle-Test:

Model	VID	CFG	Road Load CFG	Multi-Cycle-Test
i5 eDrive40 Sedan (19" Wheels)	CV71118	00	41	VBMX10092936
i5 eDrive40 Sedan (20" Wheels)	CV71118	01	42	VBMX10092937
i5 eDrive40 Sedan (20" Wheels)	CV71118	02	43	VBMX10092938
i5 eDrive40 Sedan (21" Wheels)	CV71118	03	44	VBMX10092941

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 | VBMXV00.0G6A |
| 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
CV71118	00	409	i5 eDrive40 Sedan (19" Wheels)	A-1	41
CV71118	01	410	i5 eDrive40 Sedan (20" Wheels)	A-1	42
CV71118	02	410	i5 eDrive40 Sedan (20" Wheels)	A-1	43
CV71118	03	411	i5 eDrive40 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-VBMXV00.0G6A

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 eDrive40 Sedan (19" Wheels)	409	A (R)	LDV	4881	5250	6063
i5 eDrive40 Sedan (20" Wheels)	410	A (R)	LDV	4881	5250	6063
i5 eDrive40 Sedan (21" Wheels)	411	A (R)	LDV	4881	5250	6063

12.1.2. Drive Train Information

Model Name	Carline	Trans	Gear	Engine Code	Axle ratio	
					front	rear
i5 eDrive40 Sedan (19" Wheels)	409	A (R)	1	HA0001N1G60S	---	11.11
i5 eDrive40 Sedan (20" Wheels)	410	A (R)	1	HA0001N1G60S	---	11.11
i5 eDrive40 Sedan (21" Wheels)	411	A (R)	1	HA0001N1G60S	---	11.11

12.1.3. Tire Information

Modell	Carline	Trans	Road Load CFG	Tire Front	Tire Rear
i5 eDrive40 Sedan (19" Wheels)	409	A	41	245/45 R19 102Y STD	245/45 R19 102Y STD
				245/45 R19 102Y STD	275/40 R19 105Y STD
i5 eDrive40 Sedan (20" Wheels)	410	A	42	245/40 R20 99Y STD	275/35 R20 102Y STD
				245/40 R20 99H M+S STD	275/35 R20 102H M+S STD
i5 eDrive40 Sedan (21" Wheels)	411	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 single 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 eDrive40 Sedan (19" Wheels)	409	A	41	30.5	0.186	0.01541	8.7	0.192	0.01466	10.4
i5 eDrive40 Sedan (20" Wheels)	410	A	42	34.1	0.196	0.01572	13.6	0.154	0.01549	11.1
i5 eDrive40 Sedan (20" Wheels)	410	A	43	37.3	0.206	0.01622	18.5	0.141	0.01600	11.8
i5 eDrive40 Sedan (21" Wheels)	411	A	44	40.1	0.214	0.01709	20.4	0.208	0.01616	12.5

Modell	Carline	Trans	Road Load CFG	N/V front	N/V rear	Grill Shutter
i5 eDrive40 Sedan (19" Wheels)	409	A	41	---	139.1	Yes
i5 eDrive40 Sedan (20" Wheels)	410	A	42	---	139.1	Yes
i5 eDrive40 Sedan (20" Wheels)	410	A	43	---	139.1	Yes
i5 eDrive40 Sedan (21" Wheels)	411	A	44	---	139.1	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 eDrive40 Sedan (19" Wheels)	---	--- @ ---	---	Separately excited synchronous motor	250 @ 8000	400
i5 eDrive40 Sedan (20" Wheels)	---	--- @ ---	---	Separately excited synchronous motor	250 @ 8000	400
i5 eDrive40 Sedan (21" Wheels)	---	--- @ ---	---	Separately excited synchronous motor	250 @ 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 eDrive40 Sedan (19" Wheels)	Lithium-Ionen	210.6	83.90	398.5	302.4	1	7	324
i5 eDrive40 Sedan (20" Wheels)	Lithium-Ionen	210.6	83.90	398.5	302.4	1	7	324
i5 eDrive40 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 eDrive40 Sedan (19" Wheels)	prismatic	2.80	551.2	152	Li MM(NCA) - C.F
i5 eDrive40 Sedan (20" Wheels)	prismatic	2.80	551.2	152	Li MM(NCA) - C.F
i5 eDrive40 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 eDrive40 Sedan (19" Wheels) i5 eDrive40 Sedan (20" Wheels) i5 eDrive40 Sedan (21" Wheels)	AC	11.5	240	48	8:00
i5 eDrive40 Sedan (19" Wheels) i5 eDrive40 Sedan (20" Wheels) i5 eDrive40 Sedan (21" Wheels)	AC	1.4	120	12	75:15
i5 eDrive40 Sedan (19" Wheels) i5 eDrive40 Sedan (20" Wheels) i5 eDrive40 Sedan (21" Wheels)	AC	9.6	240	40	9:45
i5 eDrive40 Sedan (19" Wheels) i5 eDrive40 Sedan (20" Wheels) i5 eDrive40 Sedan (21" Wheels)	AC	7.6	240	32	12:15

Model Name	Current Type Charging Source	Max. Charging Power [kW]
i5 eDrive40 Sedan (19" Wheels) i5 eDrive40 Sedan (20" Wheels) i5 eDrive40 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
CV71118	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 VBMXV00.0G6A.

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
409	i5 eDrive40 Sedan (19" Wheels)	see attachment: 03VE-VG6A-01
410	i5 eDrive40 Sedan (20" Wheels)	
411	i5 eDrive40 Sedan (21" Wheels)	

17. Attachment

- 17.1 VECI Label see attachment: 03VE-VG6A-01
- 17.2 Certification Summary Information Report see attachment:
CSI-VBMXV00.0G6A

BMW

Designation

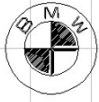
Attachment

VECI Label LDV, VBMXV00.0G6A

Date: 03.12.2025

03VE-VG6A-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: VBMXV00.0G6A



8 898 378

Original representation

Base: Black
Characters: Silver

Certification Summary Information Report

Test Group	VBMXV00.0G6A	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	410 - i5 eDrive40 Sedan (20" Wheels)	Federal	2-Wheel Drive, Rear	Automatic	1	No
BMW	1 - BMW	411 - i5 eDrive40 Sedan (21" Wheels)	Federal	2-Wheel Drive, Rear	Automatic	1	No
BMW	1 - BMW	409 - i5 eDrive40 Sedan (19" Wheels)	Federal	2-Wheel Drive, Rear	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	VBMXV00.0G6A	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)	1		
Motor/Generator Type 1	EESM	Rated Motor/Generator Power	250
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	VBMXV00.0G6A		Evaporative/Refueling Family	--							
Emission Data Vehicle Information											
Vehicle ID / Configuration	CV71118 / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	VBMXV00.0G6A		Original Evaporative/Refueling Family	--							
Original Test Vehicle Model Year	2027										
Vehicle Model											
Represented Test Vehicle Make	BMW		Represented Test Vehicle Model	i5 eDrive40 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	HA0001N1G60S		Rated Horsepower	335							
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	2-Wheel Drive, Rear							
Shift Indicator Light Usage	Not equipped		Aged Emission Components	4,000 (mi)							
Curb Weight (lbs)	4881		Equivalent Test Weight (pounds)	5250							
GVWR (lbs)	6063		N/V Ratio	1							
Axle Ratio	1										
Transmission Type	Automatic		# of Transmission Gears	1							
Transmission Lockup	No		Creeper Gear	No							
Dynamometer Coefficients:											
Target Coefficients			Set Coefficients								
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients				
City/Highway/Evap	30.5	0.186	0.01541	8.7	0.192	0.01466	10.4				
US06	30.5	0.186	0.01541	8.7	0.192	0.01466	N/A				

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	vi_CV71118_00_FEDV_i5 eDrive40 Sedan (19" Wheels)_A_ETW-5250_RG41_default mode_D; Axle Ratio rear: 11.11; N/V ratio rear: 139.1		

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Test #	VBMX10092936	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/21/2025	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	6993	Odometer Units	K
4WD Test Dyno	No	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)	94.892
Charge Depleting Range (Calculated miles)	482.391	Charge Depleting Range (Actual miles)	482.391
Charge Depleting Range Highway (Calculated miles)	452.797	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	482.391
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)	7.442
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.704
Drive Trace Energy Economy Rating	0.109
Drive Trace Inertia Work Ratio Rating	0.998
Integrated DC KW-HRS	1.3955
Manufacturer Fuel Economy	18.7515

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VBMXV00.0G6A	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>10.253</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>3.046</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.398</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>3.889</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.946</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>18.9803</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.253	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	3.046	Drive Trace Energy Economy Rating	0.398	Drive Trace Inertia Work Ratio Rating	3.889	Integrated DC KW-HRS	1.946	Manufacturer Fuel Economy	18.9803
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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>7.444</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>0.533</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.244</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.749</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.3235</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>17.7798</td> </tr> </tbody> </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	0.533	Drive Trace Energy Economy Rating	-0.244	Drive Trace Inertia Work Ratio Rating	0.749	Integrated DC KW-HRS	1.3235	Manufacturer Fuel Economy	17.7798
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Drive Trace Inertia Work Ratio Rating	0.749																				
Integrated DC KW-HRS	1.3235																				
Manufacturer Fuel Economy	17.7798																				
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>273.012</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>63.9172</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>23.4119</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	273.012	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	63.9172	Manufacturer Fuel Economy	23.4119
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	273.012																				
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	63.9172																				
Manufacturer Fuel Economy	23.4119																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--																		
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Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.013																				
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Integrated DC KW-HRS	1.2936																				
Manufacturer Fuel Economy	17.3805																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	48.085
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	11.2135
Manufacturer Fuel Economy	23.3202

Manufacturer Test Comments

01_MCT_CV71118_00_FEDV_i5 eDrive40 Sedan (19" Wheels)_A_ETW-5250_RG41_default mode_D; MCT UBE energy = 84236 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	VBMXV00.0G6A	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CV71118 / 1	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VBMXV00.0G6A	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2027								
Vehicle Model									
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i5 eDrive40 Sedan (20" Wheels)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Drive Source and Fuel#</th> <th style="width: 33%;">Drive Source</th> <th style="width: 33%;">Fuel</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Electric Motor</td> <td style="text-align: center;">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	HA0001N1G60S	Rated Horsepower	335						
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	2-Wheel Drive, Rear						
Charge Air Cooler Type	--	Aged Emission Components	4,000 (mi)						
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	5250						
Curb Weight (lbs)	4881	N/V Ratio	1						
GVWR (lbs)	6063								
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)						
City/Highway/Evap	34.1	0.196	0.01572						
			A (lbf)						
			B (lbf/mph)						
			C (lbf/mph**2)						
			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients						
			11.1						
Emission Control Device Comments	--								

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	vi_CV71118_01_FEDV_i5 eDrive40 Sedan (20" Wheels)_A_ETW-5250_RG42_default mode_D; Axle Ratio rear: 11.11; N/V ratio rear: 139.1		

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Test #	VBMX10092937	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	8151	Odometer Units	K
4WD Test Dyno	No	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)	94.858
Charge Depleting Range (Calculated miles)	456.33	Charge Depleting Range (Actual miles)	456.33
Charge Depleting Range Highway (Calculated miles)	426.011	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	456.33
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)		7.447	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.501	
Drive Trace Energy Economy Rating		0.013	
Drive Trace Inertia Work Ratio Rating		0.812	
Integrated DC KW-HRS		1.4932	
Manufacturer Fuel Economy		20.0506	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VBMXV00.0G6A	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>10.261</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>1.781</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.262</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>2.26</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.0786</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.2571</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.261	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	1.781	Drive Trace Energy Economy Rating	0.262	Drive Trace Inertia Work Ratio Rating	2.26	Integrated DC KW-HRS	2.0786	Manufacturer Fuel Economy	20.2571
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Charge Depleting Bag/Phase #3																					
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Charge Depleting Bag/Phase #4																					
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Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--																		
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Integrated DC KW-HRS	1.3653																				
Manufacturer Fuel Economy	18.3384																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	44.248
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	10.8916
Manufacturer Fuel Economy	24.6149

Manufacturer Test Comments

01_MCT_CV71118_01_FEDV_i5 eDrive40 Sedan (20" Wheels)_A_ETW-5250_RG42_default mode_D; MCT UBE energy = 84234 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	VBMXV00.0G6A		Evaporative/Refueling Family	--						
Emission Data Vehicle Information										
Vehicle ID / Configuration	CV71118 / 2		Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VBMXV00.0G6A		Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2027									
Vehicle Model										
Represented Test Vehicle Make	BMW		Represented Test Vehicle Model	i5 eDrive40 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)		Odometer Correction Factor	1						
Off-board charge Capable Indicator	Yes		Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles						
Odometer Correction -- Initial	0		Odometer Correction Units	Miles						
Engine Code	HA0001N1G60S		Rated Horsepower	335						
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	2-Wheel Drive, Rear						
Charge Air Cooler Type	--		Aged Emission Components	4,000 (mi)						
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	5250						
Curb Weight (lbs)	4881		N/V Ratio	1						
GVWR (lbs)	6063		# of Transmission Gears	1						
Axle Ratio	1		Creeper Gear	No						
Transmission Type	Automatic									
Transmission Lockup	No									
Dynamometer Coefficients:										
Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients				
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)			
City/Highway/Evap	37.3	0.206	0.01622	18.5	0.141	0.016	11.8			
Emission Control Device Comments	--									

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	vi_CV71118_02_FEDV_i5 eDrive40 Sedan (20" Wheels)_A_ETW-5250_RG43_default mode_D; Axle Ratio rear: 11.11; N/V ratio rear: 139.1		

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Test #	VBMX10092938	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/14/2025	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	5734	Odometer Units	K
4WD Test Dyno	No	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)	95.198
Charge Depleting Range (Calculated miles)	432.663	Charge Depleting Range (Actual miles)	432.663
Charge Depleting Range Highway (Calculated miles)	405.518	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	432.663
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)	7.447
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.282
Drive Trace Energy Economy Rating	-0.345
Drive Trace Inertia Work Ratio Rating	0.483
Integrated DC KW-HRS	1.5579
Manufacturer Fuel Economy	20.9197

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VBMXV00.0G6A	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>10.254</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>1.5</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.173</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.956</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.1643</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>21.1069</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.254	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	1.5	Drive Trace Energy Economy Rating	-0.173	Drive Trace Inertia Work Ratio Rating	1.956	Integrated DC KW-HRS	2.1643	Manufacturer Fuel Economy	21.1069
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Charge Depleting Bag/Phase #4																					
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Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--																		
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Manufacturer Fuel Economy	19.2365																				
Charge Depleting Bag/Phase #6																					
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Manufacturer Fuel Economy	20.529																				
Charge Depleting Bag/Phase #7																					
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Integrated DC KW-HRS	1.4462																				
Manufacturer Fuel Economy	19.4142																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	41.798
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	10.8656
Manufacturer Fuel Economy	25.9954

Manufacturer Test Comments

01_MCT_CV71118_02_FEDV_i5 eDrive40 Sedan (20" Wheels)_A_ETW-5250_RG43_default mode_D; MCT UBE energy = 84421 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	VBMXV00.0G6A		Evaporative/Refueling Family	--							
Emission Data Vehicle Information											
Vehicle ID / Configuration	CV71118 / 3		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	VBMXV00.0G6A		Original Evaporative/Refueling Family	--							
Original Test Vehicle Model Year	2027										
Vehicle Model											
Represented Test Vehicle Make	BMW		Represented Test Vehicle Model	i5 eDrive40 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)		Odometer Correction Factor	1							
Off-board charge Capable Indicator	Yes		Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction -- Initial	0		Odometer Correction Units	Miles							
Engine Code	HA0001N1G60S		Rated Horsepower	335							
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	2-Wheel Drive, Rear							
Charge Air Cooler Type	--		Aged Emission Components	4,000 (mi)							
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	5250							
Curb Weight (lbs)	4881		N/V Ratio	1							
GVWR (lbs)	6063		# of Transmission Gears	1							
Axle Ratio	1		Creeper Gear	No							
Transmission Type	Automatic										
Transmission Lockup	No										
Dynamometer Coefficients:											
Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)				
City/Highway/Evap	40.1	0.214	0.01709	20.4	0.208	0.01616	12.5				
Emission Control Device Comments	--										

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	vi_CV71118_03_FEDV_i5 eDrive40 Sedan (21" Wheels)_A_ETW-5250_RG44_default mode_D; Axle Ratio rear: 11.11; N/V ratio rear: 139.1		

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
Test #	VBMX10092941	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/25/2025	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	7615	Odometer Units	K
4WD Test Dyno	No	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)	94.766
Charge Depleting Range (Calculated miles)	415.549	Charge Depleting Range (Actual miles)	415.549
Charge Depleting Range Highway (Calculated miles)	382.178	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	415.549
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)		7.435	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-1.915	
Drive Trace Energy Economy Rating		-1.694	
Drive Trace Inertia Work Ratio Rating		-3.062	
Integrated DC KW-HRS		1.5927	
Manufacturer Fuel Economy		21.4213	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--																		
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Manufacturer Fuel Economy	27.3571																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--																		
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Actual Distance Driven (miles)	7.436																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	-1.729																				
Drive Trace Energy Economy Rating	-1.873																				
Drive Trace Inertia Work Ratio Rating	-2.603																				
Integrated DC KW-HRS	1.4807																				
Manufacturer Fuel Economy	19.9123																				
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>10.265</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>-2.475</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.897</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-2.788</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.2206</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>21.6327</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.265	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-2.475	Drive Trace Energy Economy Rating	-0.897	Drive Trace Inertia Work Ratio Rating	-2.788	Integrated DC KW-HRS	2.2206	Manufacturer Fuel Economy	21.6327
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Manufacturer Fuel Economy	20.1559																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	37.338
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	10.2925
Manufacturer Fuel Economy	27.5657

Manufacturer Test Comments 01_MCT_CV71118_03_FEDV_i5 eDrive40 Sedan (21" Wheels)_A_ETW-5250_RG44_default mode_D; MCT UBE energy = 84044 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	VBMXV00.0G6A	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	VBMXV00.0G6A	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 Summary Information Report

Test Group	VBMXV00.0G6A	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		VBMXV00.0G6A	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	