

Certification Summary Information Report

Manufacturer	BMW	Manufacturer Code	BMX
Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
Certificate Number	TBMXV00.0G6C-034	CARB Executive Order #	--
Certificate Issue Date	08/28/2025	Certificate Revision Date	--
Certificate Effective Date	08/28/2025	Conditional Certificate	Yes
CSI Revision #	--	CSI Submission/Revision Date	08/19/2025 07:09:28 AM
Model Year	2026		

Test Group Information

CSI Type	New	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	TBMXEEVNNBEV	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	12/01/2025	CAP2000 Conditional Certificate?	Yes
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TBMXV00.0G6C
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group		TBMXV00.0G6C		Evaporative/Refueling Family		--				
Models Covered by this Certificate										
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup			
BMW	1 - BMW	412 - i5 M60 xDrive Sedan (19" Wheels)	Federal	All Wheel Drive	Automatic	1	No			
BMW	1 - BMW	413 - i5 M60 xDrive Sedan (20" Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No			
BMW	1 - BMW	414 - i5 M60 xDrive Sedan (21" Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No			
BMW	1 - BMW	412 - i5 M60 xDrive Sedan (19" Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No			
BMW	1 - BMW	414 - i5 M60 xDrive Sedan (21" Wheels)	Federal	All Wheel Drive	Automatic	1	No			
BMW	1 - BMW	413 - i5 M60 xDrive 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	TBMXV00.0G6C	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	250
Motor/Generator Type 2	EESM	Rated Motor/Generator Power	192
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Motor/Generator Type: externally excited synchronuous machine (EESM)		

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CU56890 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TBMXV00.0G6C	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i5 M60 xDrive Sedan (19" Wheels)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	0	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	XE2A02N1G60X	Rated Horsepower	593						
Displacement (liters)	0.001								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5225	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6404	N/V Ratio	1						
Axle Ratio	1								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	TBMXV00.0G6C			Evaporative/Refueling Family			--
Dynamometer Coefficients:							
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	40.3	0.157	0.01651	2.2	-0.062	0.01697	11.9
Cold CO	40.3	0.157	0.01651	2.2	-0.062	0.01697	N/A
US06	40.3	0.157	0.01651	2.2	-0.062	0.01697	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CU56890_00_FEDV_i5 M60 xDrive Sedan (19" 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						

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
Test #	TBMX10091926	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	08/11/2025	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9537	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)	94.687
Charge Depleting Range (Calculated miles)	399.872	Charge Depleting Range (Actual miles)	399.872
Charge Depleting Range Highway (Calculated miles)	391.939	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	399.872
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)		7.441	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-1.353	
Drive Trace Energy Economy Rating		-2.075	
Drive Trace Inertia Work Ratio Rating		-2.157	
Integrated DC KW-HRS		1.6694	
Manufacturer Fuel Economy		22.4364	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--																		
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.268</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>-1.012</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.814</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-1.094</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.2372</td></tr><tr><td>Manufacturer Fuel Economy</td><td>21.7877</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.268	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.012	Drive Trace Energy Economy Rating	-0.814	Drive Trace Inertia Work Ratio Rating	-1.094	Integrated DC KW-HRS	2.2372	Manufacturer Fuel Economy	21.7877		
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Integrated DC KW-HRS	2.2372																				
Manufacturer Fuel Economy	21.7877																				
Charge Depleting Bag/Phase #3																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.424</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>-1.2</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.8</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-1.737</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.6105</td></tr><tr><td>Manufacturer Fuel Economy</td><td>21.6934</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.424	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.2	Drive Trace Energy Economy Rating	-1.8	Drive Trace Inertia Work Ratio Rating	-1.737	Integrated DC KW-HRS	1.6105	Manufacturer Fuel Economy	21.6934		
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Carbon-Related Exhaust Emissions	0																				
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Drive Trace Energy Economy Rating	-1.8																				
Drive Trace Inertia Work Ratio Rating	-1.737																				
Integrated DC KW-HRS	1.6105																				
Manufacturer Fuel Economy	21.6934																				
Charge Depleting Bag/Phase #4																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>243.113</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>62.5029</td></tr><tr><td>Manufacturer Fuel Economy</td><td>25.7094</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	243.113	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	62.5029	Manufacturer Fuel Economy	25.7094		
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Drive Trace Energy Economy Rating	99.99																				
Drive Trace Inertia Work Ratio Rating	99.99																				
Integrated DC KW-HRS	62.5029																				
Manufacturer Fuel Economy	25.7094																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--																		
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.431</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>-1.32</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2.099</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-1.611</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.5304</td></tr><tr><td>Manufacturer Fuel Economy</td><td>20.5955</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.431	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.32	Drive Trace Energy Economy Rating	-2.099	Drive Trace Inertia Work Ratio Rating	-1.611	Integrated DC KW-HRS	1.5304	Manufacturer Fuel Economy	20.5955		
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Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
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Drive Trace Energy Economy Rating	-2.099																				
Drive Trace Inertia Work Ratio Rating	-1.611																				
Integrated DC KW-HRS	1.5304																				
Manufacturer Fuel Economy	20.5955																				
Charge Depleting Bag/Phase #6																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.273</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>-0.975</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.729</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.921</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.1897</td></tr><tr><td>Manufacturer Fuel Economy</td><td>21.3162</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.273	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.975	Drive Trace Energy Economy Rating	-0.729	Drive Trace Inertia Work Ratio Rating	-0.921	Integrated DC KW-HRS	2.1897	Manufacturer Fuel Economy	21.3162		
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Drive Trace Inertia Work Ratio Rating	-0.921																				
Integrated DC KW-HRS	2.1897																				
Manufacturer Fuel Economy	21.3162																				
Charge Depleting Bag/Phase #7																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.424</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>-2.002</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2.461</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.852</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.5594</td></tr><tr><td>Manufacturer Fuel Economy</td><td>21.0048</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.424	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-2.002	Drive Trace Energy Economy Rating	-2.461	Drive Trace Inertia Work Ratio Rating	-2.852	Integrated DC KW-HRS	1.5594	Manufacturer Fuel Economy	21.0048		
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Drive Trace Inertia Work Ratio Rating	-2.852																				
Integrated DC KW-HRS	1.5594																				
Manufacturer Fuel Economy	21.0048																				
Charge Depleting Bag/Phase #8																					

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Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CU56890 / 1	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TBMXV00.0G6C	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i5 M60 xDrive Sedan (20" Wheels)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	0	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	XE2A02N1G60X	Rated Horsepower	593						
Displacement (liters)	0.001								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5225	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6404	N/V Ratio	1						
Axle Ratio	1								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	TBMXV00.0G6C			Evaporative/Refueling Family			--
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	38.9	0.153	0.01866	1.4	-0.086	0.01945	12.4
Cold CO	38.9	0.153	0.01866	1.4	-0.086	0.01945	N/A
US06	38.9	0.153	0.01866	1.4	-0.086	0.01945	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CU56890_01_FEDV_i5 M60 xDrive Sedan (20" 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						

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
Test #	TBMX10091927	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	08/06/2025	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8453	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)	95.131
Charge Depleting Range (Calculated miles)	397.203	Charge Depleting Range (Actual miles)	397.203
Charge Depleting Range Highway (Calculated miles)	374.901	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	397.203
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)		7.418	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-1.257	
Drive Trace Energy Economy Rating		-1.727	
Drive Trace Inertia Work Ratio Rating		-1.717	
Integrated DC KW-HRS		1.6939	
Manufacturer Fuel Economy		22.8337	
Charge Depleting Bag/Phase #2			

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Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--																		
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.248</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>2.58</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.926</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>3.39</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.3514</td></tr><tr><td>Manufacturer Fuel Economy</td><td>22.9453</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.248	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.58	Drive Trace Energy Economy Rating	-0.926	Drive Trace Inertia Work Ratio Rating	3.39	Integrated DC KW-HRS	2.3514	Manufacturer Fuel Economy	22.9453		
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Manufacturer Fuel Economy	22.9453																				
Charge Depleting Bag/Phase #3																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.424</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>-1.63</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2.468</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.279</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.6241</td></tr><tr><td>Manufacturer Fuel Economy</td><td>21.8755</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.424	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.63	Drive Trace Energy Economy Rating	-2.468	Drive Trace Inertia Work Ratio Rating	-2.279	Integrated DC KW-HRS	1.6241	Manufacturer Fuel Economy	21.8755		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.424																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	-1.63																				
Drive Trace Energy Economy Rating	-2.468																				
Drive Trace Inertia Work Ratio Rating	-2.279																				
Integrated DC KW-HRS	1.6241																				
Manufacturer Fuel Economy	21.8755																				
Charge Depleting Bag/Phase #4																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>227.266</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>62.3278</td></tr><tr><td>Manufacturer Fuel Economy</td><td>27.4251</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	227.266	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	62.3278	Manufacturer Fuel Economy	27.4251		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	227.266																				
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	62.3278																				
Manufacturer Fuel Economy	27.4251																				
Charge Depleting Bag/Phase #5																					

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.425
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-1.035
		Drive Trace Energy Economy Rating	-1.918
		Drive Trace Inertia Work Ratio Rating	-1.287
		Integrated DC KW-HRS	1.5353
		Manufacturer Fuel Economy	20.6777
Charge Depleting Bag/Phase #6			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	10.248
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0.719
		Drive Trace Energy Economy Rating	-1.214
		Drive Trace Inertia Work Ratio Rating	1.068
		Integrated DC KW-HRS	2.2665
		Manufacturer Fuel Economy	22.1157
Charge Depleting Bag/Phase #7			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.43
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-1.515
		Drive Trace Energy Economy Rating	-2.197
		Drive Trace Inertia Work Ratio Rating	-1.914
		Integrated DC KW-HRS	1.5712
		Manufacturer Fuel Economy	21.1471
Charge Depleting Bag/Phase #8			

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Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CU56890 / 2	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TBMXV00.0G6C	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i5 M60 xDrive Sedan (20" Wheels)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	0	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	XE2A02N1G60X	Rated Horsepower	593						
Displacement (liters)	0.001								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5225	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6404	N/V Ratio	1						
Axle Ratio	1								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	TBMXV00.0G6C			Evaporative/Refueling Family			--
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	42.2	0.162	0.01815	1.6	0.031	0.01797	12.8
Cold CO	42.2	0.162	0.01815	1.6	0.031	0.01797	N/A
US06	42.2	0.162	0.01815	1.6	0.031	0.01797	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CU56890_02_FEDV_i5 M60 xDrive 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						

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
Test #	TBMX10091928	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	08/01/2025	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7878	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)	95.419
Charge Depleting Range (Calculated miles)	386.855	Charge Depleting Range (Actual miles)	386.855
Charge Depleting Range Highway (Calculated miles)	371.216	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	386.855
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)		7.45	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-0.489	
Drive Trace Energy Economy Rating		-1.187	
Drive Trace Inertia Work Ratio Rating		-0.884	
Integrated DC KW-HRS		1.7562	
Manufacturer Fuel Economy		23.5719	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.249
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.036
Drive Trace Energy Economy Rating	-0.422
Drive Trace Inertia Work Ratio Rating	0.333
Integrated DC KW-HRS	2.3775
Manufacturer Fuel Economy	23.1967

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.439
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.353
Drive Trace Energy Economy Rating	-1.143
Drive Trace Inertia Work Ratio Rating	-0.582
Integrated DC KW-HRS	1.6676
Manufacturer Fuel Economy	22.4177

Charge Depleting Bag/Phase #4

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	225.199
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	62.2272
Manufacturer Fuel Economy	27.632

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.451
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-1.051
		Drive Trace Energy Economy Rating	-1.332
		Drive Trace Inertia Work Ratio Rating	-1.883
		Integrated DC KW-HRS	1.5873
		Manufacturer Fuel Economy	21.3023
Charge Depleting Bag/Phase #6			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	10.257
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0.182
		Drive Trace Energy Economy Rating	-0.71
		Drive Trace Inertia Work Ratio Rating	0.385
		Integrated DC KW-HRS	2.2935
		Manufacturer Fuel Economy	22.3615
Charge Depleting Bag/Phase #7			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.452
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0.21
		Drive Trace Energy Economy Rating	-0.69
		Drive Trace Inertia Work Ratio Rating	0.266
		Integrated DC KW-HRS	1.6204
		Manufacturer Fuel Economy	21.7457
Charge Depleting Bag/Phase #8			

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--																	
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>39.653</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>11.0299</td></tr><tr><td>Manufacturer Fuel Economy</td><td>27.8162</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	39.653	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	11.0299	Manufacturer Fuel Economy	27.8162	
	Test Result/Emission Name	Unrounded Test Result																		
	Actual Distance Driven (miles)	39.653																		
	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	11.0299																		
	Manufacturer Fuel Economy	27.8162																		
Manufacturer Test Comments	01_MCT_CU56890_02_FEDV_i5 M60 xDrive Sedan (20" Wheels)_A_ETW-5500_RG43_default mode_D; MCT UBE energy = 84560 Wh																			

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CU56890 / 3	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TBMXV00.0G6C	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	i5 M60 xDrive Sedan (21" Wheels)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	0	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	XE2A02N1G60X	Rated Horsepower	593						
Displacement (liters)	0.001								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5225	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6404	N/V Ratio	1						
Axle Ratio	1								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	TBMXV00.0G6C			Evaporative/Refueling Family			--
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	45.1	0.172	0.01818	4.5	0.034	0.01818	13.2
Cold CO	45.1	0.172	0.01818	4.5	0.034	0.01818	N/A
US06	45.1	0.172	0.01818	4.5	0.034	0.01818	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	vi_CU56890_03_FEDV_i5 M60 xDrive 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						

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--																		
Test #	TBMX10091929	Test Procedure	77 - Multi-Cycle Test (MCT)																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	07/22/2025	Fuel	N/A																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	N/A	DF Type	Mfr. Assigned																		
Verify Test Lab ID	EETZ Emissions Lab																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	5789	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)	96.005																		
Charge Depleting Range (Calculated miles)	375.6	Charge Depleting Range (Actual miles)	375.6																		
Charge Depleting Range Highway (Calculated miles)	362.094	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	375.6																		
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase #1																					
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.439</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>0.82</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.183</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.148</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.779</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.9145</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.439	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.82	Drive Trace Energy Economy Rating	0.183	Drive Trace Inertia Work Ratio Rating	1.148	Integrated DC KW-HRS	1.779	Manufacturer Fuel Economy	23.9145
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.439																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.82																				
Drive Trace Energy Economy Rating	0.183																				
Drive Trace Inertia Work Ratio Rating	1.148																				
Integrated DC KW-HRS	1.779																				
Manufacturer Fuel Economy	23.9145																				
Charge Depleting Bag/Phase #2																					

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	10.243
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	3.428
		Drive Trace Energy Economy Rating	-0.155
		Drive Trace Inertia Work Ratio Rating	4.335
		Integrated DC KW-HRS	2.4406
		Manufacturer Fuel Economy	23.826
Charge Depleting Bag/Phase #3			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.436
		Carbon dioxide	0
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0.994
		Drive Trace Energy Economy Rating	0.015
		Drive Trace Inertia Work Ratio Rating	1.353
		Integrated DC KW-HRS	1.7201
		Manufacturer Fuel Economy	23.1316
Charge Depleting Bag/Phase #4			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	216.951
		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	61.9287
		Manufacturer Fuel Economy	28.5451
Charge Depleting Bag/Phase #5			

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--																		
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.441</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>1.091</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.185</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.73</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.637</td></tr><tr><td>Manufacturer Fuel Economy</td><td>21.9986</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.441	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	1.091	Drive Trace Energy Economy Rating	0.185	Drive Trace Inertia Work Ratio Rating	1.73	Integrated DC KW-HRS	1.637	Manufacturer Fuel Economy	21.9986		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.441																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	1.091																				
Drive Trace Energy Economy Rating	0.185																				
Drive Trace Inertia Work Ratio Rating	1.73																				
Integrated DC KW-HRS	1.637																				
Manufacturer Fuel Economy	21.9986																				
Charge Depleting Bag/Phase #6																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.246</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>3.103</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.211</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>3.889</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.3492</td></tr><tr><td>Manufacturer Fuel Economy</td><td>22.9285</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.246	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	3.103	Drive Trace Energy Economy Rating	-0.211	Drive Trace Inertia Work Ratio Rating	3.889	Integrated DC KW-HRS	2.3492	Manufacturer Fuel Economy	22.9285		
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	10.246																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	3.103																				
Drive Trace Energy Economy Rating	-0.211																				
Drive Trace Inertia Work Ratio Rating	3.889																				
Integrated DC KW-HRS	2.3492																				
Manufacturer Fuel Economy	22.9285																				
Charge Depleting Bag/Phase #7																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.436</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>0.686</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.119</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.112</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.665</td></tr><tr><td>Manufacturer Fuel Economy</td><td>22.391</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.436	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.686	Drive Trace Energy Economy Rating	-0.119	Drive Trace Inertia Work Ratio Rating	1.112	Integrated DC KW-HRS	1.665	Manufacturer Fuel Economy	22.391		
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Manufacturer Fuel Economy	22.391																				
Charge Depleting Bag/Phase #8																					

Certification Summary Information Report

Test Group	TBMXV00.0G6C	Evaporative/Refueling Family	--																	
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>38.798</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>11.1282</td></tr><tr><td>Manufacturer Fuel Economy</td><td>28.6824</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	38.798	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	11.1282	Manufacturer Fuel Economy	28.6824	
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	Integrated DC KW-HRS	11.1282																		
	Manufacturer Fuel Economy	28.6824																		
Manufacturer Test Comments	01_MCT_CU56890_03_FEDV_i5 M60 xDrive Sedan (21" Wheels)_A_ETW-5500_RG44_default mode_D; MCT UBE energy = 84648 Wh																			
Fuel Properties																				

Certification Summary Information Report

Test Group		TBMXV00.0G6C			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
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
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
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
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
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
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	--	0

Certification Summary Information Report

Test Group		TBMXV00.0G6C			Evaporative/Refueling Family			--	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	--	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
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		TBMXV00.0G6C	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		TBMXV00.0G6C		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		TBMXV00.0G6C	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		