



### Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

**Models Covered by this Certificate**

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
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
BMW	1 - BMW	410 - i5 eDrive40 Sedan (20" Wheels)	Federal	2-Wheel Drive, Rear	Automatic	1	No

**Engine Description**

<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--
<b>Engine Type</b>	--	<b>Mfr Engine Description</b>	--
<b>Engine Block Arrangement</b>	--	<b>Mfr Engine Block Arrangement Description</b>	--
<b>Camless Valvetrain Indicator</b>	--	<b>Oil Viscosity/Classification</b>	
<b>Number of Cylinders/Rotors</b>	--	<b>Mechanically Variable Compression Ratio Indicator</b>	--

**After Treatment Device(s) (ATD)**

<b>Mfr After Treatment Device (ATD) Comments</b>	--
<b>Direct Ozone Reduction (DOR) Device</b>	--
<b>Mfr Emission Control Device Comments</b>	--

**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	--
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
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

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

**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		
<b>Vehicle Model</b>			
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**

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

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes	Odometer Correction Factor	1
Odometer Correction -- Initial	0	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles	
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles	Rated Horsepower	335
Engine Code	HA0001N1G60S	Air Aspiration Method, if 'Other'	
Displacement (liters)	0.001	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	2-Wheel Drive, Rear
Number of Air Aspiration Devices	--	Aged Emission Components	4,000 (mi)
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	5250
Shift Indicator Light Usage	Not equipped	N/V Ratio	1
Curb Weight (lbs)	4881	# of Transmission Gears	1
GVWR (lbs)	6063	Creeper Gear	No
Axle Ratio	1		
Transmission Type	Automatic		
Transmission Lockup	No		

**Dynamometer Coefficients:**

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	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	--
<b>Emission Control Device Comments</b>	--		
<b>Manufacturer Test Vehicle Comments</b>	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**

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>VBMX10092936</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	11/21/2025	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	EETZ Emissions Lab		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	6993	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	94.892
<b>Charge Depleting Range (Calculated miles)</b>	482.391	<b>Charge Depleting Range (Actual miles)</b>	482.391
<b>Charge Depleting Range Highway (Calculated miles)</b>	452.797	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	482.391
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**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
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																				
<b>Charge Depleting Bag/Phase #3</b>																					
<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
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																				
<b>Charge Depleting Bag/Phase #4</b>																					
<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																				
<b>Charge Depleting Bag/Phase #5</b>																					

## 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>7.446</td> </tr> <tr> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.091</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.224</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.296</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.2778</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>17.1612</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.446	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.091	Drive Trace Energy Economy Rating	-0.224	Drive Trace Inertia Work Ratio Rating	0.296	Integrated DC KW-HRS	1.2778	Manufacturer Fuel Economy	17.1612
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.446																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.091																				
Drive Trace Energy Economy Rating	-0.224																				
Drive Trace Inertia Work Ratio Rating	0.296																				
Integrated DC KW-HRS	1.2778																				
Manufacturer Fuel Economy	17.1612																				
<b>Charge Depleting Bag/Phase #6</b>																					
<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>1.133</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.642</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.506</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.869</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>18.2268</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	1.133	Drive Trace Energy Economy Rating	-0.642	Drive Trace Inertia Work Ratio Rating	1.506	Integrated DC KW-HRS	1.869	Manufacturer Fuel Economy	18.2268
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	1.133																				
Drive Trace Energy Economy Rating	-0.642																				
Drive Trace Inertia Work Ratio Rating	1.506																				
Integrated DC KW-HRS	1.869																				
Manufacturer Fuel Economy	18.2268																				
<b>Charge Depleting Bag/Phase #7</b>																					
<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>7.443</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>0.013</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.651</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.02</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.2936</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>17.3805</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.443	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.013	Drive Trace Energy Economy Rating	-0.651	Drive Trace Inertia Work Ratio Rating	0.02	Integrated DC KW-HRS	1.2936	Manufacturer Fuel Economy	17.3805
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.443																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.013																				
Drive Trace Energy Economy Rating	-0.651																				
Drive Trace Inertia Work Ratio Rating	0.02																				
Integrated DC KW-HRS	1.2936																				
Manufacturer Fuel Economy	17.3805																				
<b>Charge Depleting Bag/Phase #8</b>																					

### Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

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

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

**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		
<b>Vehicle Model</b>			
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**

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

Hybrid Indicator	No	<b>Multiple Fuel Combustion</b>	--
Multiple Fuel Storage	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes
Fuel Cell Indicator	No	<b>Rechargeable Energy Storage System, if 'Other'</b>	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes	<b>Odometer Correction Factor</b>	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	<b>Rated Horsepower</b>	335
Displacement (liters)	0.001	<b>Air Aspiration Method, if 'Other'</b>	
Air Aspiration Method	Naturally Aspirated	<b>Air Aspiration Device Configuration</b>	--
Number of Air Aspiration Devices	--	<b>Drive Mode While Testing</b>	2-Wheel Drive, Rear
Charge Air Cooler Type	--	<b>Aged Emission Components</b>	4,000 (mi)
Shift Indicator Light Usage	Not equipped	<b>Equivalent Test Weight (pounds)</b>	5250
Curb Weight (lbs)	4881	<b>N/V Ratio</b>	1
GVWR (lbs)	6063		
Axle Ratio	1	<b># of Transmission Gears</b>	1
Transmission Type	Automatic	<b>Creeper Gear</b>	No
Transmission Lockup	No		

**Dynamometer Coefficients:**

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	34.1	0.196	0.01572	13.6	0.154	0.01549	11.1

Emission Control Device Comments --

### Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
<b>Manufacturer Test Vehicle Comments</b>	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**

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>VBMX10092937</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	11/28/2025	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	EETZ Emissions Lab		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	8151	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	94.858
<b>Charge Depleting Range (Calculated miles)</b>	456.33	<b>Charge Depleting Range (Actual miles)</b>	456.33
<b>Charge Depleting Range Highway (Calculated miles)</b>	426.011	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	456.33
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
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
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																				
<b>Charge Depleting Bag/Phase #3</b>																					
<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>7.455</td> </tr> <tr> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.37</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.024</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.567</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.4045</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>18.8396</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.455	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.37	Drive Trace Energy Economy Rating	-0.024	Drive Trace Inertia Work Ratio Rating	0.567	Integrated DC KW-HRS	1.4045	Manufacturer Fuel Economy	18.8396
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.455																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.37																				
Drive Trace Energy Economy Rating	-0.024																				
Drive Trace Inertia Work Ratio Rating	0.567																				
Integrated DC KW-HRS	1.4045																				
Manufacturer Fuel Economy	18.8396																				
<b>Charge Depleting Bag/Phase #4</b>																					
<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>258.082</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>63.6747</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>24.6723</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	258.082	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	63.6747	Manufacturer Fuel Economy	24.6723
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	258.082																				
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	63.6747																				
Manufacturer Fuel Economy	24.6723																				
<b>Charge Depleting Bag/Phase #5</b>																					

## Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A	Evaporative/Refueling Family	--
-------------------	--------------	------------------------------	----

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.448
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.531
Drive Trace Energy Economy Rating	0.021
Drive Trace Inertia Work Ratio Rating	0.802
Integrated DC KW-HRS	1.349
Manufacturer Fuel Economy	18.1128

**Charge Depleting Bag/Phase #6**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.251
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	2.566
Drive Trace Energy Economy Rating	0.029
Drive Trace Inertia Work Ratio Rating	3.13
Integrated DC KW-HRS	1.9773
Manufacturer Fuel Economy	19.2884

**Charge Depleting Bag/Phase #7**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.445
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.36
Drive Trace Energy Economy Rating	-0.217
Drive Trace Inertia Work Ratio Rating	0.553
Integrated DC KW-HRS	1.3653
Manufacturer Fuel Economy	18.3384

**Charge Depleting Bag/Phase #8**

### Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

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	--	--
Fed	120,000 miles	Other	CREE	0	--	--	--	--	1	0	--	--

## Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A		<b>Evaporative/Refueling Family</b>	--							
<b>Emission Data Vehicle Information</b>											
<b>Vehicle ID / Configuration</b>	CV71118 / 2		<b>Manufacturer Vehicle Configuration Number</b>	0							
<b>Original Test Group Name</b>	VBMXV00.0G6A		<b>Original Evaporative/Refueling Family</b>	--							
<b>Original Test Vehicle Model Year</b>	2027										
<b>Vehicle Model</b>											
<b>Represented Test Vehicle Make</b>	BMW		<b>Represented Test Vehicle Model</b>	i5 eDrive40 Sedan (20" Wheels)							
<b>Leak Family Details</b>											
<b>Leak Family Identifier</b>	--		<b>Leak Family Name</b>	--							
<b>Drive Sources and Fuel System Details</b>											
<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									
<b>Hybrid Indicator</b>	No		<b>Multiple Fuel Combustion</b>	--							
<b>Multiple Fuel Storage</b>	--		<b>Rechargeable Energy Storage System Indicator</b>	Yes							
<b>Fuel Cell Indicator</b>	No		<b>Rechargeable Energy Storage System, if 'Other'</b>	--							
<b>Rechargeable Energy Storage System</b>	Battery(s)		<b>Odometer Correction Factor</b>	1							
<b>Off-board charge Capable Indicator</b>	Yes		<b>Odometer Correction Sign</b>	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
<b>Odometer Correction -- Initial</b>	0		<b>Odometer Correction Units</b>	Miles							
<b>Engine Code</b>	HA0001N1G60S		<b>Rated Horsepower</b>	335							
<b>Displacement (liters)</b>	0.001		<b>Air Aspiration Method, if 'Other'</b>	--							
<b>Air Aspiration Method</b>	Naturally Aspirated		<b>Air Aspiration Device Configuration</b>	--							
<b>Number of Air Aspiration Devices</b>	--		<b>Drive Mode While Testing</b>	2-Wheel Drive, Rear							
<b>Charge Air Cooler Type</b>	--		<b>Aged Emission Components</b>	4,000 (mi)							
<b>Shift Indicator Light Usage</b>	Not equipped		<b>Equivalent Test Weight (pounds)</b>	5250							
<b>Curb Weight (lbs)</b>	4881		<b>N/V Ratio</b>	1							
<b>GVWR (lbs)</b>	6063		<b># of Transmission Gears</b>	1							
<b>Axle Ratio</b>	1		<b>Creeper Gear</b>	No							
<b>Transmission Type</b>	Automatic										
<b>Transmission Lockup</b>	No										
<b>Dynamometer Coefficients:</b>											
<b>Target Coefficients</b>			<b>Set Coefficients</b>			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>		<b>C (lbf/mph**2)</b>				
<b>City/Highway/Evap</b>	37.3	0.206	0.01622	18.5	0.141	0.016	11.8				
<b>Emission Control Device Comments</b>	--										

### Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
<b>Manufacturer Test Vehicle Comments</b>	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	--
<b>Test #</b>	<b>VBMX10092938</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	11/14/2025	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	EETZ Emissions Lab		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5734	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>PHEV/EV Charge Depleting Test Information</b>			
<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	95.198
<b>Charge Depleting Range (Calculated miles)</b>	432.663	<b>Charge Depleting Range (Actual miles)</b>	432.663
<b>Charge Depleting Range Highway (Calculated miles)</b>	405.518	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	432.663
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--
<b>Charge Depleting Bag/Phase #1</b>			
<b>Test Result/Emission Name</b>		<b>Unrounded Test Result</b>	
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	
<b>Charge Depleting Bag/Phase #2</b>			

## 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
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																				
<b>Charge Depleting Bag/Phase #3</b>																					
<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>7.453</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>0.679</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.178</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.966</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.4761</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>19.8054</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.453	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.679	Drive Trace Energy Economy Rating	-0.178	Drive Trace Inertia Work Ratio Rating	0.966	Integrated DC KW-HRS	1.4761	Manufacturer Fuel Economy	19.8054
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.453																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.679																				
Drive Trace Energy Economy Rating	-0.178																				
Drive Trace Inertia Work Ratio Rating	0.966																				
Integrated DC KW-HRS	1.4761																				
Manufacturer Fuel Economy	19.8054																				
<b>Charge Depleting Bag/Phase #4</b>																					
<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>245.367</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>63.3708</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>25.8269</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	245.367	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	63.3708	Manufacturer Fuel Economy	25.8269
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	245.367																				
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	63.3708																				
Manufacturer Fuel Economy	25.8269																				
<b>Charge Depleting Bag/Phase #5</b>																					

## 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>7.453</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>0.625</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.34</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.899</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.4337</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>19.2365</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.453	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.625	Drive Trace Energy Economy Rating	-0.34	Drive Trace Inertia Work Ratio Rating	0.899	Integrated DC KW-HRS	1.4337	Manufacturer Fuel Economy	19.2365
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.453																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.625																				
Drive Trace Energy Economy Rating	-0.34																				
Drive Trace Inertia Work Ratio Rating	0.899																				
Integrated DC KW-HRS	1.4337																				
Manufacturer Fuel Economy	19.2365																				
<b>Charge Depleting Bag/Phase #6</b>																					
<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>10.259</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>3.131</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.154</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>3.737</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.1061</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.529</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.259	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	3.131	Drive Trace Energy Economy Rating	-0.154	Drive Trace Inertia Work Ratio Rating	3.737	Integrated DC KW-HRS	2.1061	Manufacturer Fuel Economy	20.529
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	10.259																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	3.131																				
Drive Trace Energy Economy Rating	-0.154																				
Drive Trace Inertia Work Ratio Rating	3.737																				
Integrated DC KW-HRS	2.1061																				
Manufacturer Fuel Economy	20.529																				
<b>Charge Depleting Bag/Phase #7</b>																					
<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>7.449</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>0.07</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.786</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-0.07</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.4462</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>19.4142</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.449	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.07	Drive Trace Energy Economy Rating	-0.786	Drive Trace Inertia Work Ratio Rating	-0.07	Integrated DC KW-HRS	1.4462	Manufacturer Fuel Economy	19.4142
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.449																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	0.07																				
Drive Trace Energy Economy Rating	-0.786																				
Drive Trace Inertia Work Ratio Rating	-0.07																				
Integrated DC KW-HRS	1.4462																				
Manufacturer Fuel Economy	19.4142																				
<b>Charge Depleting Bag/Phase #8</b>																					

### Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

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	--	--

### Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--						
<b>Emission Data Vehicle Information</b>									
<b>Vehicle ID / Configuration</b>	CV71118 / 3	<b>Manufacturer Vehicle Configuration Number</b>	0						
<b>Original Test Group Name</b>	VBMXV00.0G6A	<b>Original Evaporative/Refueling Family</b>	--						
<b>Original Test Vehicle Model Year</b>	2027								
<b>Vehicle Model</b>									
<b>Represented Test Vehicle Make</b>	BMW	<b>Represented Test Vehicle Model</b>	i5 eDrive40 Sedan (21" Wheels)						
<b>Leak Family Details</b>									
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--						
<b>Drive Sources and Fuel System Details</b>									
<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							
<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--						
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes						
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System, if 'Other'</b>	--						
<b>Rechargeable Energy Storage System</b>	Battery(s)								
<b>Off-board charge Capable Indicator</b>	Yes	<b>Odometer Correction Factor</b>	1						
<b>Odometer Correction -- Initial</b>	0								
<b>Odometer Correction Sign</b>	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
<b>Odometer Correction Units</b>	Miles								
<b>Engine Code</b>	HA0001N1G60S	<b>Rated Horsepower</b>	335						
<b>Displacement (liters)</b>	0.001	<b>Air Aspiration Method, if 'Other'</b>							
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Device Configuration</b>	--						
<b>Number of Air Aspiration Devices</b>	--	<b>Drive Mode While Testing</b>	2-Wheel Drive, Rear						
<b>Charge Air Cooler Type</b>	--	<b>Aged Emission Components</b>	4,000 (mi)						
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Equivalent Test Weight (pounds)</b>	5250						
<b>Curb Weight (lbs)</b>	4881	<b>N/V Ratio</b>	1						
<b>GVWR (lbs)</b>	6063								
<b>Axle Ratio</b>	1	<b># of Transmission Gears</b>	1						
<b>Transmission Type</b>	Automatic	<b>Creeper Gear</b>	No						
<b>Transmission Lockup</b>	No								
<b>Dynamometer Coefficients:</b>									
<b>Target Coefficients</b>			<b>Set Coefficients</b>						
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>						
<b>City/Highway/Evap</b>	40.1	0.214	0.01709						
			<b>A (lbf)</b>						
			20.4						
			<b>B (lbf/mph)</b>						
			0.208						
			<b>C (lbf/mph**2)</b>						
			0.01616						
			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>						
			12.5						
<b>Emission Control Device Comments</b>	--								

### Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
<b>Manufacturer Test Vehicle Comments</b>	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**

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>VBMX10092941</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	11/25/2025	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	EETZ Emissions Lab		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	7615	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	94.766
<b>Charge Depleting Range (Calculated miles)</b>	415.549	<b>Charge Depleting Range (Actual miles)</b>	415.549
<b>Charge Depleting Range Highway (Calculated miles)</b>	382.178	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	415.549
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
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	--																		
<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>10.266</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>-2.159</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.727</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-2.369</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.2944</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>22.349</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.266	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-2.159	Drive Trace Energy Economy Rating	-0.727	Drive Trace Inertia Work Ratio Rating	-2.369	Integrated DC KW-HRS	2.2944	Manufacturer Fuel Economy	22.349
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	10.266																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	-2.159																				
Drive Trace Energy Economy Rating	-0.727																				
Drive Trace Inertia Work Ratio Rating	-2.369																				
Integrated DC KW-HRS	2.2944																				
Manufacturer Fuel Economy	22.349																				
<b>Charge Depleting Bag/Phase #3</b>																					
<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>7.441</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>-1.988</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-1.923</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-2.885</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.5281</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.5368</td> </tr> </tbody> </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	-1.988	Drive Trace Energy Economy Rating	-1.923	Drive Trace Inertia Work Ratio Rating	-2.885	Integrated DC KW-HRS	1.5281	Manufacturer Fuel Economy	20.5368
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	-1.988																				
Drive Trace Energy Economy Rating	-1.923																				
Drive Trace Inertia Work Ratio Rating	-2.885																				
Integrated DC KW-HRS	1.5281																				
Manufacturer Fuel Economy	20.5368																				
<b>Charge Depleting Bag/Phase #4</b>																					
<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>230.8</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>63.1402</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>27.3571</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	230.8	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	63.1402	Manufacturer Fuel Economy	27.3571
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	230.8																				
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	63.1402																				
Manufacturer Fuel Economy	27.3571																				
<b>Charge Depleting Bag/Phase #5</b>																					

## 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>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>-1.729</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-1.873</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-2.603</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.4807</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>19.9123</td> </tr> </tbody> </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	-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
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	-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																				
<b>Charge Depleting Bag/Phase #6</b>																					
<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
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																				
<b>Charge Depleting Bag/Phase #7</b>																					
<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>7.417</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>-2.898</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-2.675</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-4.374</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.495</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.1559</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.417	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-2.898	Drive Trace Energy Economy Rating	-2.675	Drive Trace Inertia Work Ratio Rating	-4.374	Integrated DC KW-HRS	1.495	Manufacturer Fuel Economy	20.1559
Test Result/Emission Name	Unrounded Test Result																				
Actual Distance Driven (miles)	7.417																				
Carbon dioxide	0																				
Carbon-Related Exhaust Emissions	0																				
Drive Trace Absolute Speed Change Rating	-2.898																				
Drive Trace Energy Economy Rating	-2.675																				
Drive Trace Inertia Work Ratio Rating	-4.374																				
Integrated DC KW-HRS	1.495																				
Manufacturer Fuel Economy	20.1559																				
<b>Charge Depleting Bag/Phase #8</b>																					

### Certification Summary Information Report

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

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

<b>Test Group</b>	VBMXV00.0G6A	<b>Evaporative/Refueling Family</b>	--						
<b>Consolidated List of Standards</b>									
<b>Exhaust Standards</b>									
<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert						
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	Other						
<b>Fuel</b>	Electricity	<b>Test Procedure</b>	Multi-Cycle Test (MCT)						
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
120,000 miles	CREE	--	--	--	--	--	1	--	0
150,000 miles	CO	--	--	--	--	--	1	--	0

## Certification Summary Information Report

Test Group	VBMXV00.0G6A	Evaporative/Refueling Family	--
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
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
<b>Exhaust Emission Standard Level</b>			
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	
<b>Transmission Type Code</b>					
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)	
<b>Drive System Code</b>					
4	4-Wheel Drive		P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
<b>Additional Terms and Acronyms</b>					
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	