

Certification Summary Information Report

Test Group	VBMXJ02.0M4P		Evaporative/Refueling Family	VBMXR0120U11			
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	11/19/2025 10:41:05 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	120	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	--						
Leak Family Details							
Leak Family Indicator	No						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
BMW	2 - Mini	427 - Countryman S ALL4	Federal	All Wheel Drive	Automated Manual- Selectable (e.g. Automated Manual with paddles)	7	No
Engine Description							
Hybrid Type	--		Hybrid Description	--			
Engine Type	4-Stroke Spark Ignition		Mfr Engine Description	--			
Engine Block Arrangement	Inline		Mfr Engine Block Arrangement Description	--			
Camless Valvetrain Indicator	No		Oil Viscosity/Classification	0W-20			
Number of Cylinders/Rotors	4		Mechanically Variable Compression Ratio Indicator	N			

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family			VBMXR0120U11								
After Treatment Device(s) (ATD)																
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction								
1		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
2		Other		non coated		Ceramic		Monolith								
3		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
Mfr After Treatment Device (ATD) Comments		After Treatment Device #2: non coated particular filter (GPF)														
Direct Ozone Reduction (DOR) Device		Not Equipped														
Mfr Emission Control Device Comments		--														
Engine Configuration Number 1																
Engine Displacement (liters)		2.0			Engine Rated Horsepower			241								
Number of Inlet Valves Per Cylinder		2			Number of Exhaust Valves Per Cylinder			2								
Air Aspiration Method		Turbocharged			Number of Air Aspiration Devices			1								
Air Aspiration Device Configuration		Single			Charge Air Cooler Type			Air								
Air Aspiration Drive Method(s)		Mechanical														
Cylinder Deactivation		No														
Cylinder Deactivation Description		--														
Variable Valve Timing		Yes														
Variable Valve Timing System Description		Variable Valve Timing at inlet and outlet valves														
Variable Valve Lift?		Yes														
Variable Valve Lift System Description		Variable Valve Lift at inlet valves														
Number of Knock Sensors		2			Number of Air/Fuel Sensors			2								
Air/Fuel Sensor # 1 Type		Air fuel			Air/Fuel Sensor # 1 Description			--								
Air/Fuel Sensor # 2 Type		Heated oxygen			Air/Fuel Sensor # 2 Description			--								
Mfr Air/Fuel Sensor Comments		--														
Exhaust Gas Recirculation		No			Cooled Exhaust Gas Recirculation			No								
EGR Type		--			Exhaust Gas Recirculation Description if 'Other'			--								
Closed Loop Air Injection System		No														
Air Injection Type		--			Air Injection Type if 'Other'			--								
Mfr Engine Configuration Comments		--														
Official Test Numbers																
Test Group		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
Gasoline		TBMX10090990		TBMX10090993		TBMX10090992		TBMX10090995		TBMX10090991		20.6	228.2	35.5	286.1	--

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Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	TBMX10090990	TBMX10090993	TBMX10090992

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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Emission Data Vehicle Information

Vehicle ID / Configuration	5U31826 / 4	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SBMXT02.0B48	Original Evaporative/Refueling Family	SBMXR0120U11
Original Test Vehicle Model Year	2025		
Vehicle Model			
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	X1 xDrive28i

Leak Family Details

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

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	1	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	B48A2002U11X	Rated Horsepower	241
Displacement (liters)	2	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Turbocharged	Air Aspiration Device Configuration	Single
Number of Air Aspiration Devices	1	Drive Mode While Testing	All Wheel Drive
Charge Air Cooler Type	Air	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	4000
Curb Weight (lbs)	3750	N/V Ratio	26.9
GVWR (lbs)	4850		
Axle Ratio	3.94		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7
Transmission Lockup	No	Creep Gear	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	43	-0.008	0.02301	11.6	0.056	0.02088	13.4

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	vi_5U31826_04_EDV EVAP_X1 xDrive28i_A_ETW-4000_RG30		
Test #	SBMX10087472	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SBMX10087471	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/08/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6350	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.1287	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.139	--

Manufacturer Test Comments EVAP EDV - 3Day, X1 xDrive28i

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.139	0	0.139	0.3	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	SBMX10087473	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SBMX10087471	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/08/2024	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	43
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6322	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC (Hydrocarbon for Running Loss and ORVR)	0.0002	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0002	--

Manufacturer Test Comments EVAP EDV - Running Loss, X1 xDrive28i

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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Emission Data Vehicle Information

Vehicle ID / Configuration	5U31827 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	PBMXT02.0B48	Original Evaporative/Refueling Family	PBMXR0120U11
Original Test Vehicle Model Year	2023		
Vehicle Model			
Represented Test Vehicle Make	BMW	Represented Test Vehicle Model	X1 xDrive28i

Leak Family Details

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

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	1	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	B48A2002U11X	Rated Horsepower	241
Displacement (liters)	2		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3750	Equivalent Test Weight (pounds)	4000
GVWR (lbs)	4850	N/V Ratio	26.9
Axle Ratio	3.94		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7
Transmission Lockup	No	Creep Gear	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	43	-0.008	0.02301	10	0.004	0.0211	13.4

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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Emission Control Device Comments --
Manufacturer Test Vehicle Comments 5U31827_00_EDV_EVAP_X1 xDrive28i_A_ETW-4000_RG30

Test #	PBMX10075602	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	PBMX10075600	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/06/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3539	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.175369	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.189398	--

Manufacturer Test Comments 00_X1 xDrive28i_2-day_EDV_MY23

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.1894	0	0.189	0.3	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	PBMX10075859	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	PBMX10075858	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/14/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3685	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC (Hydrocarbon for Running Loss and ORVR)	0.10044	--

Manufacturer Test Comments EVAP EDV, ORVR, X1 xDrive28i, MY23

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.1	0	0.1	0.2	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	PBMX10075679	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/02/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	0	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.01395	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.015066	--

Manufacturer Test Comments BLEED_5U31827_00_EDV_EVAP_X1 xDrive28i_A_ETW-4000_RG30 – tested with a stick car

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.0151	0	0.015	0.02	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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Test #	PBMX10075680	Test Procedure	67 - Leak Test - Port Near Canister
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/14/2022	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3569	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
LEAK-DIA (Effective Leak Diameter (inches))	0.013	--

Manufacturer Test Comments LEAK_5U31827_00_EDV_EVAP_X1 xDrive28i_A_ETW-4000_RG30

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	LEAK-DIA	0.013	0	0.01	0.02	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11						
Emission Data Vehicle Information									
Vehicle ID / Configuration	7R43669 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TBMXJ02.0M4P	Original Evaporative/Refueling Family	TBMXR0120U11						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	Mini	Represented Test Vehicle Model	Countryman S ALL4						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	1	Odometer Correction Factor	1						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	B48A2002U25X	Rated Horsepower	241						
Displacement (liters)	2								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3777	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4949	N/V Ratio	26.9						
Axle Ratio	3.94								
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family			VBMXR0120U11
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	38.5	0.047	0.02504	11.8	-0.072	0.02433	13.8	
Cold CO	42.3	0.052	0.02755	-2.3	-0.128	0.02641	N/A	
US06	38.5	0.047	0.02504	11.8	-0.072	0.02433	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	vi_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30							

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Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090990	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/26/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3645	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	390.2050398	--
FE BAG 1 (Bag 1 Fuel Economy)	22.1447818	22.1447818
CO2 BAG 2 (Bag 2 Carbon Dioxide)	452.0242347	--
FE BAG 2 (Bag 2 Fuel Economy)	19.1152167	19.1152167
CO2 BAG 3 (Bag 3 Carbon Dioxide)	347.0154959	--
FE BAG 3 (Bag 3 Fuel Economy)	24.910167	24.910167
METHANE (CH4 - Methane)	0.00063	--
CO (Carbon Monoxide)	0.1539799	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.2096623	--
DT-EER (Drive Trace Energy Economy Rating)	-0.8053847	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.2978289	--
MFR FE (Manufacturer Fuel Economy)	21.0742309	21.0742309
NOX (Nitrogen Oxide)	0.001374	--
N2O (Nitrous Oxide)	0.0003635	--
HC-NM (Non-methane Hydrocarbon)	0.005516	--
NMOG (Non-methane organic gases)	0.0060676	--
PM (Particulate Matter)	0.000173	--
HC-TOTAL (Total Hydrocarbon)	0.0061303	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	410.2538257	999

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family				VBMXR0120U11			
Test Result Name		Unrounded Test Result			Verify Calculated CO2							
Carbon dioxide		410.4799081			--							
Manufacturer Test Comments		01_FTP_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off										
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	999	--	--	--	0.1	--	999	--	--
Fed	120,000 miles	Other	METHANE	0.0006	--	--	--	0.0008	--	0.001	0.030	Pass
Fed	120,000 miles	Other	N2O	0.0004	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Other	CO	0.15	--	--	--	0.1	--	0.2	1.0	Pass
Fed	150,000 miles	Other	CO-COMP	0.24	--	--	--	--	--	0.2	4.2	Pass
Fed	150,000 miles	Other	NMOG	0.0061	--	1.1	--	0.0032	--	0.009	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0075	--	--	--	--	--	0.014	0.020	Pass
Fed	150,000 miles	Other	NMOG+NOX-COMP	0.0107	--	--	--	--	--	0.011	0.040	Pass
Fed	150,000 miles	Other	NOX	0.0014	--	--	--	0.0033	--	0.005	999.999	Pass
Fed	150,000 miles	Other	PM	0.0002	--	--	--	0	--	0	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090995	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	03/07/2025	Fuel	Gasoline
Fuel Batch ID	COE10	Fuel Calibration Number	56
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2393	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	456.2530341	--
FE BAG 1 (Bag 1 Fuel Economy)	18.8586537	18.8586537
CO2 BAG 2 (Bag 2 Carbon Dioxide)	484.745912	--
FE BAG 2 (Bag 2 Fuel Economy)	17.7757937	17.7757937
CO2 BAG 3 (Bag 3 Carbon Dioxide)	371.6588082	--
FE BAG 3 (Bag 3 Fuel Economy)	23.1728552	23.1728552
METHANE (CH4 - Methane)	0.0024848	--
CO (Carbon Monoxide)	0.1828363	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.4713676	--
DT-EER (Drive Trace Energy Economy Rating)	-1.4728819	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.33342	--
MFR FE (Manufacturer Fuel Economy)	19.2335069	19.2335069
HC-NM (Non-methane Hydrocarbon)	0.0179871	--
HC-TOTAL (Total Hydrocarbon)	0.0203925	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	447.8148531	--

Manufacturer Test Comments 06_FTPCOLD_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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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	50,000 miles	Other	CO	0.18	--	--	--	0.03	--	0.2	10.0	Pass
Fed	120,000 miles	Other	HC-NM	0.02	--	--	--	0	--	0	0.3	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090991	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/26/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3662	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00044	--
CO (Carbon Monoxide)	0.0381	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.461	--
DT-EER (Drive Trace Energy Economy Rating)	0.322	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.741	--
MFR FE (Manufacturer Fuel Economy)	34	34
NOX (Nitrogen Oxide)	0.00124	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	254	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	253.686	--

Manufacturer Test Comments

02_HWFET_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Summary Information Report

Test Group		VBMXJ02.0M4P				Evaporative/Refueling Family				VBMXR0120U11		
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	999	--	--	--	0.1	--	999	--	--
Fed	150,000 miles	Other	NMOG	0	--	1.03	--	0.0032	--	0.003	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0012	--	--	--	--	--	0.008	0.020	Pass
Fed	150,000 miles	Other	NOX	0.0012	--	--	--	0.0033	--	0.004	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090993	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/26/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3695	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	526.8519693	--
FE BAG 1 (Bag 1 Fuel Economy)	16.3953979	16.3953979
CO2 BAG 2 (Bag 2 Carbon Dioxide)	300.3202829	--
FE BAG 2 (Bag 2 Fuel Economy)	28.8011804	28.8011804
METHANE (CH4 - Methane)	0.0002325	--
CO (Carbon Monoxide)	0.1370507	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.3490849	--
DT-EER (Drive Trace Energy Economy Rating)	-1.7400784	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.5034665	--
MFR FE (Manufacturer Fuel Economy)	24.686726	24.686726
NOX (Nitrogen Oxide)	0.0022595	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
PM (Particulate Matter)	0.000442	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	350.4648237	--

Manufacturer Test Comments 03_US06_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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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	150,000 miles	Other	CO	0.1371	--	--	--	0.1	--	0.237	999.999	Pass
Fed	150,000 miles	Other	NMOG	0	--	1.03	--	0.0032	--	0.003	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0023	--	--	--	0.0033	--	0.006	999.999	Pass
Fed	150,000 miles	Other	PM	0.0004	--	--	--	0	--	0	0.006	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10090992	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/25/2025	Fuel	Gasoline
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4142	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0004568	--
CO (Carbon Monoxide)	0.1331274	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.1172223	--
DT-EER (Drive Trace Energy Economy Rating)	-1.1376271	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.818622	--
MFR FE (Manufacturer Fuel Economy)	18.5848006	18.5848006
NOX (Nitrogen Oxide)	0.0020231	--
HC-NM (Non-methane Hydrocarbon)	0.0004231	--
NMOG (Non-methane organic gases)	0.0004357	--
HC-TOTAL (Total Hydrocarbon)	0.0008684	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	465.1668523	--

Manufacturer Test Comments 04_SC03_7R43669_00_EDV_Countryman S ALL4_A_ETW-4000_RG30_Sport_S_off

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification		Pass/Fail
										Level	Standard	
Fed	150,000 miles	Other	CO	0.1331	--	--	--	0.1	--	0.233	999.999	Pass
Fed	150,000 miles	Other	NMOG	0.0004	--	1.03	--	0.0032	--	0.004	999.999	Pass
Fed	150,000 miles	Other	NOX	0.002	--	--	--	0.0033	--	0.005	999.999	Pass

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11						
Emission Data Vehicle Information									
Vehicle ID / Configuration	7R43669 / 1	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TBMXJ02.0M4P	Original Evaporative/Refueling Family	TBMXR0120U11						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	Mini	Represented Test Vehicle Model	Countryman S ALL4						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	1	Odometer Correction Factor	1						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	B48A20T2U25X	Rated Horsepower	241						
Displacement (liters)	2								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3777	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4949	N/V Ratio	26.9						
Axle Ratio	3.94								
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family			VBMXR0120U11
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	38.5	0.047	0.02425	9.4	-0.079	0.02371	13.5	
US06	38.5	0.047	0.02425	9.4	-0.079	0.02371	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	vi_7R43669_01_FEDV_Countryman S ALL4_A_ETW-4000_RG33							

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10091000	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	04/16/2025	Fuel	Gasoline
Fuel Batch ID	T2/E0	Fuel Calibration Number	57
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4598	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	297.4587602	--
FE BAG 1 (Bag 1 Fuel Economy)	29.3782761	29.3782761
CO2 BAG 2 (Bag 2 Carbon Dioxide)	283.2450224	--
FE BAG 2 (Bag 2 Fuel Economy)	30.9013603	30.9013603
CO2 BAG 3 (Bag 3 Carbon Dioxide)	259.1662474	--
FE BAG 3 (Bag 3 Fuel Economy)	33.7791736	33.7791736
METHANE (CH4 - Methane)	0.0011847	--
CO (Carbon Monoxide)	0.25814	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.1589958	--
DT-EER (Drive Trace Energy Economy Rating)	-1.7671813	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.7532392	--
MFR FE (Manufacturer Fuel Economy)	31.2201413	31.2201413
NOX (Nitrogen Oxide)	0.0015453	--
N2O (Nitrous Oxide)	0.0003583	--
HC-NM (Non-methane Hydrocarbon)	0.0082745	--
NMOG (Non-methane organic gases)	0.0086055	--
HC-TOTAL (Total Hydrocarbon)	0.0094257	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	280.4368775	280

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	279.5799871	--

Manufacturer Test Comments 01_FTP_7R43669_01_FEDV_Countryman S ALL4_A_ETW-4000_RG33_default mode_D_on

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	280	--	--	--	0.1	--	280	--	--
Fed	120,000 miles	Other	METHANE	0.0012	--	--	--	0.0008	--	0.002	0.030	Pass
Fed	120,000 miles	Other	N2O	0.0004	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Other	CO	0.26	--	--	--	0.1	--	0.4	1.0	Pass
Fed	150,000 miles	Other	NMOG	0.0086	--	1.1	--	0.0032	--	0.012	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0101	--	--	--	--	--	0.017	0.020	Pass
Fed	150,000 miles	Other	NOX	0.0015	--	--	--	0.0033	--	0.005	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Test #	TBMX10091001	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	04/16/2025	Fuel	Gasoline
Fuel Batch ID	T2/E0	Fuel Calibration Number	57
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	EETZ Emissions Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4616	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.0096922	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.3738243	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6405013	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.7896183	--
MFR FE (Manufacturer Fuel Economy)	46.8157579	46.8157579
NOX (Nitrogen Oxide)	0.0011763	--
HC-NM (Non-methane Hydrocarbon)	0.0002341	--
NMOG (Non-methane organic gases)	0.0002411	--
HC-TOTAL (Total Hydrocarbon)	0.0002341	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	187.0157099	187

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	186.5639031	--

Manufacturer Test Comments

02_HWFET_7R43669_01_FEDV_Countryman S ALL4_A_ETW-4000_RG33_default mode_D_on

Certification Summary Information Report

Test Group		VBMXJ02.0M4P				Evaporative/Refueling Family				VBMXR0120U11		
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	187	--	--	--	0.1	--	187	--	--
Fed	150,000 miles	Other	NMOG	0.0002	--	1.03	--	0.0032	--	0.003	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0014	--	--	--	--	--	0.008	0.020	Pass
Fed	150,000 miles	Other	NOX	0.0012	--	--	--	0.0033	--	0.004	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Fuel Properties			
Fuel Batch ID	COE10	Fuel Calibration Number	56
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	05/17/2024
Fuel Batch Calibration Effective Date	07/30/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.826	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18001
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	T10/87	Fuel Calibration Number	43
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/27/2023
Fuel Batch Calibration Effective Date	02/27/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.827	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.746
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17962
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	T10/87	Fuel Calibration Number	26
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/21/2021
Fuel Batch Calibration Effective Date	11/04/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.825	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18229
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	T2/E0	Fuel Calibration Number	57
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/26/2024
Fuel Batch Calibration Effective Date	12/11/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Exhaust Carbon Weight Fraction	0.862	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.737
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18727
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.862	Weight Fraction CO2	--
Fuel Batch ID	T10/87	Fuel Calibration Number	58
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/25/2024
Fuel Batch Calibration Effective Date	01/22/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.827	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17975
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Other
Fuel	Gasoline	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
120,000 miles	CREE	--	--	--	--	--	--	0.1	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010
150,000 miles	CO	--	--	--	0	--	--	0.1	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.1	0	--	--	0.0032	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	0	--	--	0.0033	999.999
150,000 miles	PM	--	--	--	0	--	--	0	0.003

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Other
Fuel	Gasoline	Test Procedure	Federal fuel 3-day exhaust

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	--	--	--	--	--	--	0.1	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010
150,000 miles	CO	--	--	--	0	--	--	0.1	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.1	0	--	--	0.0032	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	0	--	--	0.0033	999.999
150,000 miles	PM	--	--	--	0	--	--	0	0.003

Certification Summary Information Report

Test Group		VBMXJ02.0M4P			Evaporative/Refueling Family			VBMXR0120U11		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Other		
Fuel		Gasoline			Test Procedure			US06		
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	--	--	--	0	--	--	0.1	999.999	
150,000 miles	NMOG	--	--	1.03	0	--	--	0.0032	999.999	
150,000 miles	NOX	--	--	--	0	--	--	0.0033	999.999	
150,000 miles	PM	--	--	--	0	--	--	0	0.006	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Other		
Fuel		Gasoline			Test Procedure			SC03		
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	--	--	--	0	--	--	0.1	999.999	
150,000 miles	NMOG	--	--	1.03	0	--	--	0.0032	999.999	
150,000 miles	NOX	--	--	--	0	--	--	0.0033	999.999	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Other		
Fuel		Gasoline			Test Procedure			HWFE		
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	--	--	--	--	--	--	0.1	999	
150,000 miles	NMOG	--	--	1.03	0	--	--	0.0032	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020	
150,000 miles	NOX	--	--	--	0	--	--	0.0033	999.999	

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Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Other
Fuel	Gasoline	Test Procedure	Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	0	--	--	0.03	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Evaporative/Refueling Standards

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0

Evaporative/Refueling Family	VBMXR0120U11	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

Certification Summary Information Report

Test Group	VBMXJ02.0M4P		Evaporative/Refueling Family	VBMXR0120U11	
Evaporative/Refueling Family	VBMXR0120U11		Cert Region	Federal	
Cert/In-Use Code	Cert		Standard Level	Federal Tier 3 Evap	
Test Procedure	Leak Test - Port Near Canister				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
Evaporative/Refueling Family	VBMXR0120U11		Cert Region	Federal	
Cert/In-Use Code	Cert		Standard Level	Federal Tier 3 Evap	
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

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Test Group	VBMXJ02.0M4P	Evaporative/Refueling Family	VBMXR0120U11
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	VBMXJ02.0M4P	Evaporative/Refueling Family		VBMXR0120U11
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		VBMXJ02.0M4P	Evaporative/Refueling Family		VBMXR0120U11
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	