

Certification Summary Information Report

Manufacturer	Mitsubishi Motors Corporation	Manufacturer Code	MTX
Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Certificate Number	VMTXJ02.4G5V-001	CARB Executive Order #	--
Certificate Issue Date	03/10/2026	Certificate Revision Date	--
Certificate Effective Date	03/10/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	12/18/2025 03:00:07 AM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Multipoint/sequential fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT1, LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VMTXGPGNNNCE	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	08/01/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VMTXT01.5HDP
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	One deficiency will be issued for this test group(VMTXJ02.4G5V).		
Mfr Test Group Comments	Regarding EPA Vehicle Class, 2WD model is LDV and 4WD model is LDT1.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VMTXJ02.4G5V		Evaporative/Refueling Family	VMTXR0135A4D
Evaporative/Refueling Family Information				
Evaporative Summary Information Type	New	Submission/Correction Date	10/22/2025 10:42:04 PM	
Integrated ORVR?	Yes	Fuel(s)	Gasoline	
Multiple Fuel Storage	--			
Bladder Fuel Tank?	No			
Fuel Tank Material	Metal	Fuel Tank Material Description	--	
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)	135	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	Yes			
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	--			
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description	
VMTXR0135A4D-A4D	50 State	0.02	All test groups in this Evap Leak Family comply with the California OBD requirements (0.02 inch diameter leak detection).	

Certification Summary Information Report

Test Group	VMTXJ02.4G5V			Evaporative/Refueling Family		VMTXR0135A4D	
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	175 - Outlander Sport 4WD	California + CAA Section 177 states	4-Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	180 - RVR 2WD	California + CAA Section 177 states	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	170 - Outlander Sport 2WD	Federal	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	180 - RVR 2WD	Federal	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	175 - Outlander Sport 4WD	Federal	4-Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	170 - Outlander Sport 2WD	California + CAA Section 177 states	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	185 - RVR 4WD	California + CAA Section 177 states	4-Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
Mitsubishi Motors Corporation	1 - Mitsubishi Motors Corporation	185 - RVR 4WD	Federal	4-Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	Yes
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	
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	Three-way catalyst		Platinum + Rhodium		Ceramic		Monolith
Mfr After Treatment Device (ATD) Comments							
		--					
Direct Ozone Reduction (DOR) Device		Not Equipped					
Mfr Emission Control Device Comments		--					

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Engine Configuration Number 1			
Engine Displacement (liters)	2.4	Engine Rated Horsepower	168
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	--
Air Aspiration Device Configuration	--	Charge Air Cooler Type	N/A
Air Aspiration Drive Method(s)	--		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	DOHC continuous Variable Valve Timing System with both inlet and exhaust		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	1	Number of Air/Fuel Sensors	2
Air/Fuel Sensor # 1 Type	Heated 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	Yes	Cooled Exhaust Gas Recirculation	No
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Mitsubishi 4B12 Engine		

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D								
Engine Configuration Number 2											
Engine Displacement (liters)	2.0	Engine Rated Horsepower	148								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	--								
Air Aspiration Device Configuration	--	Charge Air Cooler Type	N/A								
Air Aspiration Drive Method(s)	--										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	DOHC continuous Variable Valve Timing System with both inlet and exhaust										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	1	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Heated 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	Yes	Cooled Exhaust Gas Recirculation	No								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	Mitsubishi 4B11 Engine										
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
Gasoline	KMTX10050762	KMTX10050766	KMTX10050768	LMTX10056826	KMTX10050763	28	228.2	36.1	286.1	--	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP	US06	SC03								
Gasoline	KMTX10050762	KMTX10050766	KMTX10050768								

Certification Summary Information Report

Test Group	VMTXJ02.4G5V		Evaporative/Refueling Family	VMTXR0135A4D																							
Emission Data Vehicle Information																											
Vehicle ID / Configuration	EB17-CA8A / 3		Manufacturer Vehicle Configuration Number	0																							
Original Test Group Name	HMTXV02.0G5P		Original Evaporative/Refueling Family	HMTXR0135A2D																							
Original Test Vehicle Model Year	2017																										
Vehicle Model																											
Represented Test Vehicle Make	MITSUBISHI		Represented Test Vehicle Model	LANCER																							
Leak Family Details																											
Leak Family Identifier	A2D		Leak Family Name	HMTXR0135A2D-A2D																							
Drive Sources and Fuel System Details																											
<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </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 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 Factor	0.97																							
Odometer Correction -- Initial	5258																										
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor																										
Odometer Correction Units	Miles																										
Engine Code	20DH-VEN		Rated Horsepower	143																							
Displacement (liters)	1.998		Air Aspiration Method, if 'Other'																								
Air Aspiration Method	Naturally Aspirated		Air Aspiration Device Configuration	--																							
Number of Air Aspiration Devices	--		Drive Mode While Testing	2-Wheel Drive, Front																							
Charge Air Cooler Type	N/A		Aged Emission Components	4,000 (mi)																							
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	3250																							
Curb Weight (lbs)	3003		N/V Ratio	31.3																							
GVWR (lbs)	3969																										
Axle Ratio	6.03																										
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)		# of Transmission Gears	6																							
Transmission Lockup	Yes		Creep Gear	No																							
Dynamometer Coefficients:																											
<table border="1"> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> <tr> <td>City/Highway/Evap</td> <td>33.947</td> <td>-0.1676</td> <td>0.0216</td> <td>11.34</td> <td>-0.1475</td> <td>0.02004</td> <td>10.6</td> </tr> </table>						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	33.947	-0.1676	0.0216	11.34	-0.1475	0.02004	10.6
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	33.947	-0.1676	0.0216	11.34	-0.1475	0.02004	10.6																				

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	--								
Test #	HMTX10039872	Test Procedure	38 - CA fuel 3-day evap.						
Exhaust Test # for this Evap Test	HMTX10039867	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	12/10/2015	Fuel	Gasoline						
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2158						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Development Engineering Office								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	9702	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.13</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.13	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.13	--							
Manufacturer Test Comments									
4K-MILE(3) 3DAY-EVAP FUEL:LEV3 E10 ETW:3250LBS CVT TIRE:P205/60R16									
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	0.13	0	0.13	0.3	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.13	0	0.13	0.3	Pass	

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Test #	HMTX10039874	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	HMTX10039868	Test Fuel Type	46 - CARB LEV3 E10 Regular
Test Date	12/22/2015	Fuel	Gasoline
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2159
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9758	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.193	--

Manufacturer Test Comments

4K-MILE(3) 2DAY-EV FUEL:LEV3 E10 ETW:3250LBS CVT TIRE:P205/60R16

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	0.193	0	0.193	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.193	0	0.193	0.3	Pass

Certification Summary Information Report

Test Group	VMTXJ02.4G5V		Evaporative/Refueling Family		VMTXR0135A4D			
Test #	HMTX10039871		Test Procedure		24 - Federal fuel refueling test (ORVR)			
Exhaust Test # for this Evap Test	HMTX10039869		Test Fuel Type		48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)			
Test Date	12/08/2015		Fuel		Gasoline			
Fuel Batch ID	MOKZ13		Fuel Calibration Number		3153			
Vehicle Class	N/A		DF Type		Mfr. Determined			
Verify Test Lab ID	Development Engineering Office							
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)							
Test Start Odometer Reading	9665		Odometer Units		M			
4WD Test Dyno	No		Diesel Adjustment Factor Usage		--			
State of Charge Delta	No							
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)		Road Speed Fan Usage		No			
Test Results								
Test Result Name			Unrounded Test Result		Verify Calculated FE Equivalent Value (miles per gallon)			
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)			0.008		--			
Manufacturer Test Comments								
4K-MILE(3) ORVR FUEL:Tier3 E10 ETW:3250LBS CVT TIRE:P205/60R16 DF Test								
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	0.008	0.007	0.02	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.008	0.007	0.02	0.2	Pass

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
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Test #

HMTX10039873

Test Procedure

37 - California Fuel Running Loss

Exhaust Test # for this Evap Test

HMTX10039867

Test Fuel Type

46 - CARB LEV3 E10 Regular Gasoline

Test Date

12/10/2015

Fuel

Gasoline

Fuel Batch ID

MOKZ12

Fuel Calibration Number

2158

Vehicle Class

N/A

DF Type

Mfr. Determined

Verify Test Lab ID

Development Engineering Office

E10 Evaporative Test Measurement Method

Calculated (1.08 x FID Total Hydrocarbons)

Test Start Odometer Reading

9702

Odometer Units

M

4WD Test Dyno

No

Diesel Adjustment Factor Usage

--

State of Charge Delta

No

Road Speed Fan Usage

No

Drive Cycle Speed Tolerance Criteria

Used Part 86 (+/- 2 mph, +/- 1 sec)

Test Results

Manufacturer Test Comments

4K-MILE(3) 3DAY Running Loss FUEL:LEV3 E10 ETW:3250LBS CVT TIRE:P205/60R16

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Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	--								
Test #	HMTX10039870	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	12/10/2015	Fuel	Gasoline						
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2158						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Development Engineering Office								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	9702	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No						
Test Results									
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.009</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.009	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.009	--							
Manufacturer Test Comments 4K-MILE(4) Bleed Test FUEL:LEV3 E10 Such as vehicle ID, odometer are dummy.									
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	0.009	0	0.009	0.02	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.009	0	0.009	0.02	Pass	

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D						
Emission Data Vehicle Information									
Vehicle ID / Configuration	EB19-ZB6B / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	KMTXT02.4G5P	Original Evaporative/Refueling Family	KMTXR0135A2D						
Original Test Vehicle Model Year	2019								
Vehicle Model									
Represented Test Vehicle Make	MITSUBISHI	Represented Test Vehicle Model	OUTLANDER SPORT 4WD						
Leak Family Details									
Leak Family Identifier	A2D	Leak Family Name	KMTXR0135A2D-A2D						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </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	3	Odometer Correction Factor	0.99						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	24DA-VEN	Rated Horsepower	168						
Displacement (liters)	2.359								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3373	Equivalent Test Weight (pounds)	3625						
GVWR (lbs)	4343	N/V Ratio	28.8						
Axle Ratio	6.03								
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	6						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family		VMTXR0135A4D	
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	41.68	-0.00506	0.025259	18.3	0.0613	0.02301	13.9	
US06	41.68	-0.00506	0.025259	18.3	0.0613	0.02301	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		--						

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Test #	KMTX10050762	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/13/2017	Fuel	Gasoline
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2177
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3883	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	301	--
FE BAG 1 (Bag 1 Fuel Economy)	29.1004	29.1004
CO2 BAG 2 (Bag 2 Carbon Dioxide)	299	--
FE BAG 2 (Bag 2 Fuel Economy)	29.4676	29.4676
CO2 BAG 3 (Bag 3 Carbon Dioxide)	274	--
FE BAG 3 (Bag 3 Fuel Economy)	32.1201	32.1201
METHANE (CH4 - Methane)	0.00289	--
CO (Carbon Monoxide)	0.27965	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.05	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.13	--
HCHO (Formaldehyde)	0.00003	--
MFR FE (Manufacturer Fuel Economy)	30.0242	30.0242
NOX (Nitrogen Oxide)	0.00453	--
N2O (Nitrous Oxide)	0.0016	--
HC-NM (Non-methane Hydrocarbon)	0.013	--
NMOG (Non-methane organic gases)	0.0143	--
PM (Particulate Matter)	0.00053	--
HC-TOTAL (Total Hydrocarbon)	0.01579	--

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family				VMTXR0135A4D			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		293.49		999						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		292.59562		--						
Manufacturer Test Comments		4K-mile(0) FTP Fuel:LEV3 E10 Fuel Reg. ETW:3625bs CVT(D) Tire:P225/55R18 NMOG/NMHC=1.1 Outlander Sport 4WD										
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	Federal Tier 3 Bin 70	CREE	999	--	--	--	0.0827	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 70	METHANE	0.0029	--	--	--	0.0027	--	0.006	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0016	--	--	--	0.0013	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.28	--	--	--	0.09	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	HCHO	0	--	--	--	0.0003	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0143	--	1.1	--	0.0098	--	0.024	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0188	--	--	--	--	--	0.039	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0045	--	--	--	0.0107	--	0.015	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0005	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.28	--	--	--	0.09	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	HCHO	0	--	--	--	0.0003	--	0	0.004	Pass
CA	150,000 miles	California LEV-IV ULEV70	METHANE	0.0029	--	--	--	0.0034	--	0.006	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV70	N2O	0.0016	--	--	--	0.0016	--	0.003	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0143	--	1.1	--	0.0098	--	0.024	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0188	--	--	--	--	--	0.039	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0045	--	--	--	0.0107	--	0.015	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0005	--	--	--	0	--	0	0.001	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	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Test #	KMTX10050770	Test Procedure	51 - CA fuel 50 Deg(F) exhaust test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/20/2017	Fuel	Gasoline
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2178
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4036	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	314	--
FE BAG 1 (Bag 1 Fuel Economy)	27.6507	27.6507
CO2 BAG 2 (Bag 2 Carbon Dioxide)	307	--
FE BAG 2 (Bag 2 Fuel Economy)	28.741	28.741
CO2 BAG 3 (Bag 3 Carbon Dioxide)	270	--
FE BAG 3 (Bag 3 Fuel Economy)	32.6562	32.6562
METHANE (CH4 - Methane)	0.00731	--
CO (Carbon Monoxide)	0.62864	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.36	--
DT-EER (Drive Trace Energy Economy Rating)	-0.13	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.31	--
HCHO (Formaldehyde)	0.00007	--
MFR FE (Manufacturer Fuel Economy)	29.499	29.499
NOX (Nitrogen Oxide)	0.00524	--
HC-NM (Non-methane Hydrocarbon)	0.05327	--
NMOG (Non-methane organic gases)	0.0586	--
HC-TOTAL (Total Hydrocarbon)	0.05992	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	299.18	--

Certification Summary Information Report

Test Group		VMTXJ02.4G5V				Evaporative/Refueling Family				VMTXR0135A4D		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		298.14199			--					
Manufacturer Test Comments		4K-mile(0) 50F Fuel:LEV3 E10 Regular ETW:3625bs CVT(D) Tire:P225/55R18 NMOG/NMHC=1.1 Outlander Sport 4WD										
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
CA	4,000 miles	California LEV-IV ULEV70	CO	0.63	--	--	--	--	--	0.6	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV70	HCHO	0.0001	--	--	--	--	--	0	0.016	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0586	--	1.1	--	--	--	0.059	999.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0638	--	--	--	--	--	0.064	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0052	--	--	--	--	--	0.005	999.999	Pass

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D																																	
Test #	KMTX10050763	Test Procedure	3 - HWFE																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																	
Test Date	09/13/2017	Fuel	Gasoline																																	
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2177																																	
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	Development Engineering Office																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	3894	Odometer Units	M																																	
4WD Test Dyno	No	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	No																																	
Test Results																																				
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>METHANE (CH4 - Methane)</td> <td>0.00564</td> <td>--</td> </tr> <tr> <td>CO (Carbon Monoxide)</td> <td>0.2444</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>1.82</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>-0.06</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>2.55</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>40.8985</td> <td>40.8985</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.00059</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.01935</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.01993</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.02472</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	METHANE (CH4 - Methane)	0.00564	--	CO (Carbon Monoxide)	0.2444	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.82	--	DT-EER (Drive Trace Energy Economy Rating)	-0.06	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.55	--	MFR FE (Manufacturer Fuel Economy)	40.8985	40.8985	NOX (Nitrogen Oxide)	0.00059	--	HC-NM (Non-methane Hydrocarbon)	0.01935	--	NMOG (Non-methane organic gases)	0.01993	--	HC-TOTAL (Total Hydrocarbon)	0.02472	--
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
Carbon dioxide	215.40628	--																																		
Manufacturer Test Comments	4K-mile(0) HWY Fuel:LEV3 E10 Reg. ETW:3625lbs CVT(D) Tire:P225/55R18 NMOG/NMHC=1.03 Outlander Sport 4WD																																			

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family					VMTXR0135A4D		
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	Federal Tier 3 Bin 70	CREE	999	--	--	--	0.0827	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0199	--	1.03	--	0.0098	--	0.03	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0205	--	--	--	--	--	0.041	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0006	--	--	--	0.0107	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0199	--	1.03	--	0.0098	--	0.03	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0205	--	--	--	--	--	0.041	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0006	--	--	--	0.0107	--	0.011	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	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Test #	KMTX10050766	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/13/2017	Fuel	Gasoline
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2177
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3917	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	461	--
FE BAG 1 (Bag 1 Fuel Economy)	19.0711	19.0711
CO2 BAG 2 (Bag 2 Carbon Dioxide)	292	--
FE BAG 2 (Bag 2 Fuel Economy)	30.0108	30.0108
CO (Carbon Monoxide)	0.9214	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.55	--
DT-EER (Drive Trace Energy Economy Rating)	0.01	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.67	--
MFR FE (Manufacturer Fuel Economy)	26.5825	26.5825
NOX (Nitrogen Oxide)	0.0015	--
HC-NM (Non-methane Hydrocarbon)	0.00833	--
NMOG (Non-methane organic gases)	0.00858	--
PM (Particulate Matter)	0.00364	--
HC-TOTAL (Total Hydrocarbon)	0.01411	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	329.83295	--

Manufacturer Test Comments

4K-mile(0) US06 Fuel:LEV3 E10 Reg. ETW:3625bs CVT(D) Tire:P225/55R18 NMOG/NMHC=1.03 Outlander Sport 4WD

Certification Summary Information Report

Test Group		VMTXJ02.4G5V				Evaporative/Refueling Family				VMTXR0135A4D		
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	Federal Tier 3 Bin 70	PM	0.0036	--	--	--	0.0004	--	0.004	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.92	--	--	--	0.09	--	1	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0086	--	1.03	--	0.0098	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0101	--	--	--	--	--	0.031	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0015	--	--	--	0.0107	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0036	--	--	--	0.0004	--	0.004	0.006	Pass

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Test #	KMTX10050768	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/13/2017	Fuel	Gasoline
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2177
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3933	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0.14949	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.25	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.91	--
MFR FE (Manufacturer Fuel Economy)	25.2306	25.2306
NOX (Nitrogen Oxide)	0.00362	--
HC-NM (Non-methane Hydrocarbon)	0.00196	--
NMOG (Non-methane organic gases)	0.00202	--
HC-TOTAL (Total Hydrocarbon)	0.00534	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	348.53371	--

Manufacturer Test Comments 4K-mile(0) SC03 Fuel:LEV3 E10 Regular ETW:3625bs CVT(D) Tire:P225/55R18 NMOG/NMHC=1.03 Outrander Sport 4WD

Certification Summary Information Report

Test Group		VMTXJ02.4G5V				Evaporative/Refueling Family				VMTXR0135A4D		
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
CA	150,000 miles	California LEV-IV ULEV70	CO	0.15	--	--	--	0.09	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.002	--	1.03	--	0.0098	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0056	--	--	--	--	--	0.026	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0036	--	--	--	0.0107	--	0.014	999.999	Pass

Certification Summary Information Report

Test Group	VMTXJ02.4G5V		Evaporative/Refueling Family	VMTXR0135A4D																						
Emission Data Vehicle Information																										
Vehicle ID / Configuration	EB19-ZB6B / 4		Manufacturer Vehicle Configuration Number	0																						
Original Test Group Name	LMTXT02.4G5P		Original Evaporative/Refueling Family	LMTXR0135A2D																						
Original Test Vehicle Model Year	2020																									
Vehicle Model																										
Represented Test Vehicle Make	MITSUBISHI		Represented Test Vehicle Model	OUTLANDER SPORT 4WD																						
Leak Family Details																										
Leak Family Identifier	A2D		Leak Family Name	LMTXR0135A2D-A2D																						
Drive Sources and Fuel System Details																										
<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </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 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 Factor	0.99																						
Odometer Correction -- Initial	3																									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor																									
Odometer Correction Units	Miles																									
Engine Code	24DB-VEN		Rated Horsepower	168																						
Displacement (liters)	2.359		Air Aspiration Method, if 'Other'																							
Air Aspiration Method	Naturally Aspirated		Air Aspiration Device Configuration	--																						
Number of Air Aspiration Devices	--		Drive Mode While Testing	2-Wheel Drive, Front																						
Charge Air Cooler Type	N/A		Aged Emission Components	4,000 (mi)																						
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	3625																						
Curb Weight (lbs)	3322		N/V Ratio	28.8																						
GVWR (lbs)	4343																									
Axle Ratio	6.03																									
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)		# of Transmission Gears	6																						
Transmission Lockup	Yes		Creep Gear	No																						
Dynamometer Coefficients:																										
<table border="1"> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="3">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> <tr> <td>Cold CO</td> <td>46.311</td> <td>-0.00562</td> <td>0.028066</td> <td>15.43</td> <td>-0.0065</td> <td>0.02589</td> </tr> </table>						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)	Cold CO	46.311	-0.00562	0.028066	15.43	-0.0065	0.02589
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)																			
Cold CO	46.311	-0.00562	0.028066	15.43	-0.0065		0.02589																			

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	--		

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Test #	LMTX10056826	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	11/20/2018	Fuel	Gasoline
Fuel Batch ID	MOKZ15	Fuel Calibration Number	6183
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4642	Odometer Units	M
4WD Test Dyno	No	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	411	--
FE BAG 1 (Bag 1 Fuel Economy)	20.7934	20.7934
CO2 BAG 2 (Bag 2 Carbon Dioxide)	353	--
FE BAG 2 (Bag 2 Fuel Economy)	24.9759	24.9759
CO2 BAG 3 (Bag 3 Carbon Dioxide)	303	--
FE BAG 3 (Bag 3 Fuel Economy)	29.0752	29.0752
METHANE (CH4 - Methane)	0.01403	--
CO (Carbon Monoxide)	1.59139	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.25	--
DT-EER (Drive Trace Energy Economy Rating)	-0.52	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.79	--
MFR FE (Manufacturer Fuel Economy)	24.9228	24.9228
NOX (Nitrogen Oxide)	0.00724	--
HC-NM (Non-methane Hydrocarbon)	0.18276	--
HC-TOTAL (Total Hydrocarbon)	0.19609	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	354.12	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	351.32428	--

Manufacturer Test Comments

4K-mile(4) Cold-FTP Fuel:Tier3-C-Regular E10 ETW:3625bs CVT(D) Tire:P225/55R18 NMOG/NMHC=1.10 Outlander Sport 4WD

Certification Summary Information Report

Test Group		VMTXJ02.4G5V				Evaporative/Refueling Family				VMTXR0135A4D		
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	Federal Tier 3 Bin 70	CO	1.59	--	--	--	0.03	--	1.6	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.18	--	--	--	0.0071	--	0.2	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV70	CO	1.59	--	--	--	0.09	--	1.7	10.0	Pass

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Fuel Properties			
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2158
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	08/19/2015
Fuel Batch Calibration Effective Date	11/16/2015	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	16.53	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18572
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.861	Weight Fraction CO2	--
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2178
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/29/2017
Fuel Batch Calibration Effective Date	09/18/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	16.53	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18563
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	MOKZ12	Fuel Calibration Number	2177
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/14/2017
Fuel Batch Calibration Effective Date	08/28/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	16.53	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18575
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.861	Weight Fraction CO2	--
Fuel Batch ID	MOKZ12	Fuel Calibration Number	2159
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	10/21/2015
Fuel Batch Calibration Effective Date	12/14/2015	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Fuel Density (grams/cubic ft)	16.54	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18582
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.861	Weight Fraction CO2	--
Fuel Batch ID	MOKZ15	Fuel Calibration Number	6183
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	09/23/2018
Fuel Batch Calibration Effective Date	11/12/2018	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	16.52	Fuel Specific Gravity	0.741
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18546
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	MOKZ13	Fuel Calibration Number	3153
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	04/21/2015
Fuel Batch Calibration Effective Date	09/21/2015	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	16.52	Fuel Specific Gravity	0.738
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18553
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	--

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family		VMTXR0135A4D		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level		Federal Tier 3 Bin 70		
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	--	--	--	--	--	--	0.0827	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0098	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0107	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level		California LEV-IV ULEV70		
Fuel		Gasoline			Test Procedure		California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.09	1.7
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0034	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0016	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0098	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0107	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.001

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family			VMTXR0135A4D	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV70	
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	--	--	--	--	--	--	0.09	1.7
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0098	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0107	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			California 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	--	--	--	--	--	--	0.0827	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0.0027	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0013	0.010
150,000 miles	CO	--	--	--	--	--	--	0.09	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0098	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0206	0.070
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0107	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family			VMTXR0135A4D	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			CA fuel 50 Deg(F) exhaust test	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	1.7
4,000 miles	HCHO	--	--	--	--	--	--	--	0.016
4,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.140
4,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV70	
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	--	--	--	--	--	--	0.09	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0098	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0107	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0004	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV70	
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
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0098	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0107	999.999

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family			VMTXR0135A4D	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 70	
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	--	--	--	--	--	--	0.03	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0071	0.3

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV70	
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	--	--	--	--	--	--	0.09	10.0

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 70	
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	PM	--	--	--	--	--	--	0.0004	0.006

Evaporative/Refueling Standards

Evaporative/Refueling Family		VMTXR0135A4D		Cert Region		California + CAA Section 177 states					
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)					
Test Procedure		CA fuel 3-day evap.									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.300		0	

Certification Summary Information Report

Test Group		VMTXJ02.4G5V		Evaporative/Refueling Family		VMTXR0135A4D	
Evaporative/Refueling Family		VMTXR0135A4D		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	--	0.020	0		
Evaporative/Refueling Family		VMTXR0135A4D		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VMTXR0135A4D		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-TOTAL-EQUIV	--	0.20	0.007		
Evaporative/Refueling Family		VMTXR0135A4D		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VMTXR0135A4D		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.007		

Certification Summary Information Report

Test Group		VMTXJ02.4G5V		Evaporative/Refueling Family		VMTXR0135A4D	
Evaporative/Refueling Family		VMTXR0135A4D		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-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		VMTXR0135A4D		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California fuel 2-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		VMTXR0135A4D		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		VMTXR0135A4D		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		

Certification Summary Information Report

Test Group		VMTXJ02.4G5V	Evaporative/Refueling Family		VMTXR0135A4D
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		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VMTXJ02.4G5V	Evaporative/Refueling Family		VMTXR0135A4D
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VMTXJ02.4G5V	Evaporative/Refueling Family		VMTXR0135A4D
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
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		

Certification Summary Information Report

Test Group		VMTXJ02.4G5V	Evaporative/Refueling Family		VMTXR0135A4D
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	