

Application for Certification - Part 1

Test Group Application

2027 Model Year

Mitsubishi Motors Corporation

Test Group Durability Group Evap. Families	VMTXJ02.4G5V VMTXGPGNNNCE VMTXR0135A4D
Durability Gr. Description	Four Stroke, Otto Cycle, Gasoline Fueled, SFI
Applicable Standards	Exhaust Emission Federal : Interim Tier 4 Bin 70 LDV, LDT1 California : LEV IV ULEV70 PC, LDT1 Evaporative Emission Federal : Federal Tier 3, LDV, LDT1 California : LEV IV (Option2 with FEL), PC, LDT1
Carlines Covered	Outlander Sport 4WD, 2.0L/2.4 L Outlander Sport 2WD, 2.0L RVR 4WD, 2.0L/2.4 L RVR 2WD, 2.0 L

Emission Data Vehicles :

Veh. ID	Config.	Test Type	Test No.
EB19-ZB6A	00	FTP	KMTX10050758
		HWY	KMTX10050759
		US06	KMTX10050775
		SC03	KMTX10050768
		50F	KMTX10050770
	01	Cold CO	LMTX10056826
EB17-CA8A	03	Evap. 2-Day	HMTX10039874
		Evap. 3-Day	HMTX10039872
		Running Loss	HMTX10039873
		ORVR	HMTX10039871
	04	Bleed	HMTX10039870

Response Requested by : March 19, 2026 (for EPA and ARB)

For Questions, Contact :

Andy Mabutol

MRDA

Telephone Number : 714-514-2102

Fax Number : N/A

Issue Date : 12-19-2025

Revised Date :

CARB Mobile Source Certification and Compliance Fee

1. Invoice

STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
CALIFORNIA AIR RESOURCES BOARD
MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY

CARB USE ONLY

Invoice Name	MSF250445
Invoice Date	Nov 10, 2025

COMPANY INFORMATION

Company Name	Mitsubishi Motors Corporation
Address	3735 Varsity Drive
City	Ann Arbor
State	MI
Zip	48108
Country	USA
Contact Name	Andy Mabuto
Contact Telephone Number	714-514-2102
Contact Email	andy.mabuto@na.mitsubishi-motors.com
CARB Customer Number	00100021

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	Outlander Sport	Model Year 2027	VMTXJ02.4G5V	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 25,155.00
Total Due						\$ 25,155.00

I, *Andy Mabuto*, attest that any information provided is true, accurate, and complete.
(Responsible Party Signature Here)

Issue Date : 12-03-2025
Revised Date :

2. MS Fee Payment Confirmation

MS Fee Payment Confirmation for Invoice MSF250445

CA

noreply@salesforce.com が代理で送信: Calific
宛先 Mabutol Andy

返信

全員に返信

転送

2025/12/03 (水) 2:32

このメッセージの表示に問題がある場合は、[ここをクリックして Web ブラウザーで表示してください。](#)

MSF250445 - signed.pdf
61 KB

[EXTERNAL EMAIL: This message originated from outside the Organization. Do not click links or open attachments unless you know the content is safe.]

Dear Andy Mabutol

Attached is documentation for your MS Fee payment for Invoice Name MSF250445. Please include a copy of this invoice and email with each application that is listed when submitting your application to the applicable MS Fee program.

1. Payment ID - N/A

2. Date of Payment - 11/20/2025

3. Payment Status - Paid

Issue Date : 12-03-2025
Revised Date :

2027 MY Application for Certification

Application : Test Group Application

Section	Content	Application	FOI/CBI
	Mobile Source Certification and Compliance Fee	Test Group	FOI
00.00.00	Preface	Common	FOI
01.00.00	Correspondences and Communications	Common	FOI
02.00.00	Durability Group Description	Common	FOI
03.00.00	Evaporative/ Refueling Family Description	Common	FOI
04.00.00	Durability Procedure Description	Common	CBI
05.00.00	Test Group Description	Test Group & Common	FOI
06.00.00	Test Vehicle Description	Test Group	FOI
07.00.00	Test Results	Test Group	FOI
08.00.00	Emission Compliance Statements	Common	FOI
09.00.00	OBD System Description	Common	FOI
10.00.00	Description of Alternate-Fueled Vehicles	Common	FOI
11.00.00	AECD Description	Common	CBI
12.00.00	Description of Vehicles covered by Certificate and Test Parameters	Test Group	FOI
13.00.00	Projected Sales	Common	CBI
14.00.00	Request for Certificate	Test Group	FOI
15.00.00	Other Information	Common & Test Group	FOI
16.00.00	California ARB Information	Common & Test Group	FOI & CBI
17.00.00	Service of Process	Common	FOI
18.00.00	References	Common	FOI

PREFACE

Refer to Common Section.

Issue Date : 10-22-2025
Revised Date :

01.00.00 CORRESPONDENCE AND COMMUNICATIONS

Refer to Common application.

02.00.00 Durability Group Description

02.01.00 Breakdown of Durability Group

Refer to Common application.

02.02.00 Durability Group Description

Refer to Common application.

Issue Date : 10-22-2025
Revised Date :

03.00.00 Evaporative / Refueling Family Description

03.01.00 Breakdown of Evap. / Refueling Family

Refer to Common application.

03.02.00 Evap. / Refueling Family

Refer to Common application.

Issue Date : 10-22-2025
Revised Date :

04.00.00 Durability Procedure Description

04.01.00 Exhaust Durability Procedures

Refer to Common application and CSI Report in application 07.00.00 in Test Group Application.

04.02.00 Evaporative System Durability Procedure

Refer to Common application and CSI Report in application 07.00.00 in Test Group Application.

04.03.00 Determination of DOR Radiator Deterioration Factor

Refer to Common application.

Issue Date : 10-22-2025
Revised Date :

05.00.00 Test Group Description

05.01.00 Breakdown of Test Group

Refer to Common Application

05.02.00 Engine Code

Refer to Common Application

05.03.00 Test Group Description

Items	Information
Test Group Name	VMTXJ02.4G5V
Durability Group	VMTXGPGNNNCE
Engine Displacement	2.0L and 2.4L
Number of cylinders	4
Arrangement of cylinders	Inline
Applicable Emission Standards	Federal : Interim Tier 4 Bin 70 FEL(Cold NMHC) : 0.3 g/mi

Based on 40 CFR 86.1827-01

Issue Date : 10-22-2025
Revised Date :

06.00.00 Test Vehicle Description

06.01.00 Test Vehicles

Refer to Vehicle Information (VI) submitted EV-CIS and CSI report for details.

For Exhaust Emission Test

Test Vehicle Type	EDV and FEDV	FEDV	DDV(Except PM)	DDV(PM)
Test Vehicle ID	EB1-ZB6B	EB19-ZA5A	DB16-ZB3A	5NB-07
Configuration No.	00, 01, 02, 03, 04	00	00, 01	00, 01
Note	-	-	-	-

For Evap. and Refueling Emission Test

Test Vehicle Type	EDV	DDV
Test Vehicle ID	EB17-CA8A	NC-01
Configuration No.	00, 01	00, 01
Note	-	-

Issue Date : 10-22-2025
Revised Date :

07.00.00 Test Results

07.01.00 Litmus Judgments Calculation Result

5-Cycle Fuel Economy, CO2, and Litmus Calculations

5-Cycle Tests

	Test Number	Test	Bag 1	Bag 2	Bag 3	Bag 4
FTP75	KMTX10050896	29.5	28.4	28.8	31.5	
HFET	KMTX10050765	40.7	US06 City	US06 Hwy	☐ 2008 ☒ 2017	☐ FE ☐ CO2 ☒ Litmus
US06	KMTX10050767	26.1	18.1	29.9		
FTP20	KMTX10050771	25.2	21.1	25.4	29.1	
SC03	KMTX10050769	25.3				

(Max fractional digits allowed = 1)

Number Format Clear Test Result Values

City Calculation Results

Start 75 Start City 5C FE

Start 20 Running

Missing Data:

Highway Calculation Results

Start 75 Start Hwy 5C FE

Start 20 Running

Missing Data:

Calculation Type

☐ D5C
☐ M5C Std 3-Bag
☐ M5C Hyb 4-Bag
☐ M5C Hyb 2-Bag
☒ V5C Std 3-Bag
☐ V5C Hyb 4-Bag
☐ V5C Hyb 2-Bag

Derived 5-Cycle

D5C Cty
D5C Hwy

City Litmus Test

>=
Value Threshold
Test Result

Highway Litmus Test

>=
Value Threshold
Test Result

Combined

Averaging

Val 1:
Val 2:
Val 3:
Val 4:

Calc Average

Avg:

Read Data Sample FE Sample CO2 Sample Litmus Delete Data Calculate Write Data

Issue Date : 10-22-2025

Revised Date :

07.02.00 Certification Summary Information (CSI) Report

Test Group : VMTXJ02.4G5V

Evaporative/Refueling Family : VMTXR0135A4D

Issue Date : 10-22-2025
Revised Date :

Certification Summary Information Report

Manufacturer	Mitsubishi Motors Corporation	Manufacturer Code	MTX
Test Group	VMTXJ02.4G5V	Evaporative/Refueling Family	VMTXR0135A4D
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
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	LDV, LDT1
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	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
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	185 - RVR 4WD	Federal	4-Wheel Drive	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	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	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	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	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	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	Federal	2-Wheel Drive, Front	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	28.0	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
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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
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Leak Family Details

Leak Family Identifier	A2D	Leak Family Name	HMTXR0135A2D-A2D
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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	5258	Odometer Correction Factor	0.97
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	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)	3003	Equivalent Test Weight (pounds)	3250
GVWR (lbs)	3969	N/V Ratio	31.3
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:

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	0.1300	0	0.130	0.300	Pass		
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1300	0	0.130	0.300	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	0.1930	0	0.193	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1930	0	0.193	0.300	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	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.008	0.007	0.02	0.20	Pass

Certification Summary Information Report

Test Group	VMTXJ02.4G5V		Evaporative/Refueling Family		VMTXR0135A4D			
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							
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)			0.009		--			
Manufacturer Test Comments								
4K-MILE(3) 3DAY Running Loss 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	0.009	0	0.01	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.009	0	0.01	0.05	Pass

Certification Summary Information Report

Test Group	VMTXJ02.4G5V		Evaporative/Refueling Family	VMTXR0135A4D																							
Emission Data Vehicle Information																											
Vehicle ID / Configuration	EB17-CA8A / 4		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	150,000 (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 #	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 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 (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	0.0090	0	0.009	0.020	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0090	0	0.009	0.020	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				
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients		
City/Highway/Evap	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	0.0000	--	--	--	0.0003	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0143	--	1.10	--	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	--	--	--	0.0000	--	0.000	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	0.0000	--	--	--	0.0003	--	0.000	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	--	1.10	--	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	--	--	--	0.0000	--	0.000	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	--	--	--	--	--	0.000	0.016	Pass	
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0586	--	1.10	--	--	--	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	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																		
METHANE (CH4 - Methane)	0.00564	--																																		
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DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.55	--																																		
MFR FE (Manufacturer Fuel Economy)	40.8985	40.8985																																		
NOX (Nitrogen Oxide)	0.00059	--																																		
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NMOG (Non-methane organic gases)	0.01993	--																																		
HC-TOTAL (Total Hydrocarbon)	0.02472	--																																		
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>215.46</td> <td>999</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	215.46	999																											
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																		
Carbon-Related Exhaust Emissions	215.46	999																																		
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>215.40628</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	215.40628	--																											
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	--	0.030	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	--	0.030	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																																																
<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>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td> <td>461</td> <td>--</td> </tr> <tr> <td>FE BAG 1 (Bag 1 Fuel Economy)</td> <td>19.0711</td> <td>19.0711</td> </tr> <tr> <td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td> <td>292</td> <td>--</td> </tr> <tr> <td>FE BAG 2 (Bag 2 Fuel Economy)</td> <td>30.0108</td> <td>30.0108</td> </tr> <tr> <td>CO (Carbon Monoxide)</td> <td>0.9214</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>-1.55</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>0.01</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>-3.67</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>26.5825</td> <td>26.5825</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.0015</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.00833</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.00858</td> <td>--</td> </tr> <tr> <td>PM (Particulate Matter)</td> <td>0.00364</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.01411</td> <td>--</td> </tr> </tbody> </table>				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	--
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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	--	1.0	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																																	
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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	0.0020	--	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
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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
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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	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	24DB-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)	3322	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

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)	
Cold CO	46.311	-0.00562	0.028066	15.43	-0.0065	0.02589	N/A

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	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	--
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	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	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	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	--

Certification Summary Information Report

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

Certification Summary Information Report

Test Group		VMTXJ02.4G5V			Evaporative/Refueling Family		VMTXR0135A4D		
Consolidated List of Standards									
Exhaust Standards									
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	--	--	1.10	--	--	--	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	--	--	--	--	--	--	0.0000	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	--	--	1.10	--	--	--	--	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		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

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			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	--	--	1.10	--	--	--	0.0098	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0107	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.001
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			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		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	

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		

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		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		
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		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		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		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	

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			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		VMTXJ02.4G5V		Evaporative/Refueling Family		VMTXR0135A4D	
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		VMTXJ02.4G5V		Evaporative/Refueling Family		VMTXR0135A4D	
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				

08.00.00 EMISSION COMPLIANCE STATEMENTS

08.01.00 Statements of Compliance

Refer to Common Application.

08.02.00 Emission Testing Waiver Statement

Refer to Common Application.

08.03.00 Performance Warranty Testing Exemption or Alternative Procedure at I/M Station for Full-Time Four-Wheel Drive

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :

09.00.00 OBD System Description

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :

10.00.00 Description of Alternative-Fueled Vehicles

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :

11.00.00 AECD Description

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :

12.00.00 DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE AND TEST PARAMETERS

12.01.00 Vehicle Parameters

Test Group : VMTXJ02.4G5V
Durability Group : VMTXGPGNNNCE
Model : OUTLANDER SPORT (RVR)

(1) Vehicle Identification

Vehicle Classification	LDV(2WD) and LDT1(4WD)
Emission Control System Description Catalyst Type EGR Type Air Pump Type Fuel System Type Intake Air Aspiration Method	Refer to Common Application Sec. 09.03.02 Refer to Common Application Sec. 02.02.00 Electronically Controlled EGR with Stepper Motor N/A SFI Natural Aspiration
Engine Code	<u>24DA-VEN and 20DE-VEN</u>
Number of Valves per Cylinder	4
Engine Displacement	<u>2.4 liter (144.0 CID) / 2.0 liter (121.9 CID)</u>
Sales Area	50-States
Transmission and Overdrive	S-CVT(Overdrive: Yes)
SIL	N/A
Tire Size	P225/55R18 P215/70R16
N/V Ratios	28.8
ETW	3500 - 3625
Dynamometer RLHP Target Coefficients	Refer to Section 12.05.00
Fuel Tank Capacity	<u>16.6 gallon (2WD) / 15.8 gallon (4WD)</u>

Issue Date : 11-17-2025
Revised Date :

12.02.00 Test Parameters

12.02.01 Engine Starting Procedure for Gasoline Vehicles

(1) Vehicles not equipped with Engine Switch (Automatic Transmission)

1. Close door.
2. Insert the ignition key if not equipped F.A.S.T. key, and fasten seat belt.
3. Place the selector lever of Automatic Transmission in "P"(Park) or "N"(Neutral) position. *1
4. Cold & Warm Engine:
No throttle depression, turn the ignition key to start position and release when engine starts.

(2) Vehicles equipped with Engine Switch (Automatic Transmission)

1. Close door and fasten seat belt.
2. Place the selector lever of Automatic Transmission in "P"(Park) or "N"(Neutral) position.*2
3. Press Engine Switch once in any indicator light condition (Off or Orange or Green)

Notes) *1 : Vehicles equipped with Automatic Transmission have shift-lock device that holds the selector lever in "P" (Park) position.
To move the selector lever from "P"(Park) position to another position, follow the steps below.

- (1) Depress and hold brake pedal.
- (2) Move the selector lever to the desired position.

When removing key, first set the selector lever to "P"(Park) position, and then turn key to "LOCK" position and remove it.

*2 : Vehicles equipped with Automatic Transmission have shift-lock device that holds the selector lever in "P"(Park) position.
To move the selector lever from "P"(Park) position to another position, follow the steps below.

- (1) Without pressing brake pedal, press Engine Switch twice.
Do not press brake pedal while pressing Engine Switch.
- (2) Depress and hold brake pedal while moving the selector lever to the desired position.

Issue Date : 11-17-2025
Revised Date :

12.02.00 Test Parameters

12.02.02 Cooling Fan Configuration

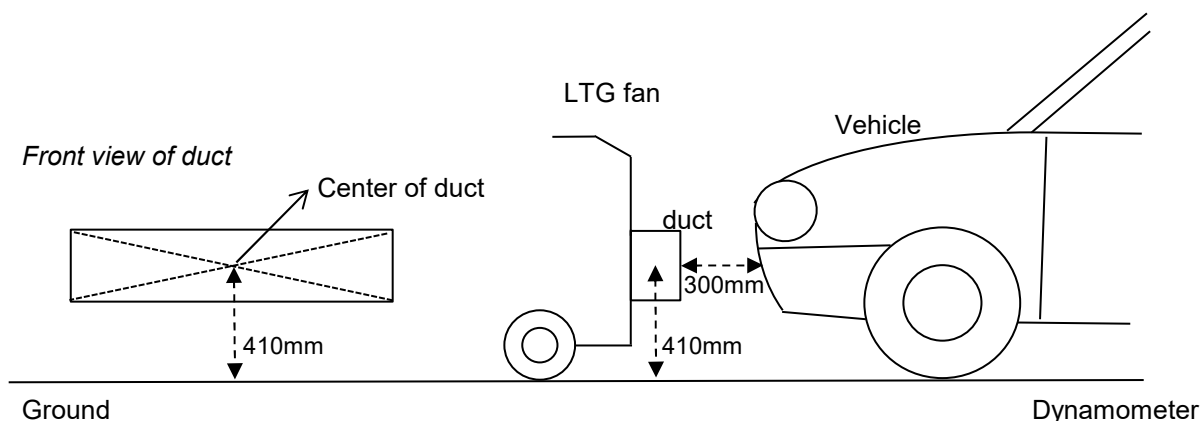
The following cooling fan configuration is applied to all chassis dynamometer testing, including tailpipe exhaust emission, fuel economy, and evaporative emission test as permitted in the regulation.
See the details as the below table.

Test Cycle	Fan configuration	Maximum fan capacity	Distance from the front of the vehicle	Engine compartment cover
FTP	Fixed-speed	Up to 2.50 m ³ /s	0 to 30 cm.	Open
HFET	Fixed-speed	Up to 2.50 m ³ /s	0 to 30 cm.	Open
LA-92	Fixed-speed	Up to 7.10 m ³ /s	0 to 60 cm.	Open
US06	Fixed-speed	Up to 7.10 m ³ /s	0 to 60 cm.	Open
SC03	Road-speed	-	60 to 90 cm.	Closed

In addition, Mitsubishi Motors recommends using LTG fan with the following position specification.

The distance from the ground to the center of duct: 410mm.

The distance from the outlet of duct to the bumper: 300mm.



For SC03 testing, use a road-speed modulated fan with a minimum discharge area that is equal to or exceeds the vehicle's frontal inlet area and ensure that the engine compartment cover is closed. Position the discharge nozzle such that its lowest point is not more than 16 cm above the floor of the test cell as permitted in the regulation.

Mitsubishi Motors recommends using a road-speed modulated fan with a discharge area of 1.7m², height of 1.10m, and width of 1.55m.

If a different type of cooling fan is used for testing, please confirm with Mitsubishi Motors in advance.

12.02.00 Test Parameters

12.02.03 Shift Schedule

Not Applicable

Issue Date : 11-17-2025
Revised Date :

12.02.00 Test Parameters

12.02.04 Semi-Automatic Transmission Survey and Selectable Shift Mode

In accordance with CISC-09-19, Mitsubishi performed the certification tests for the vehicles with the semi-automatic transmission have been tested by D-range only.

The following table indicates which models have satisfied the requirement and are exempt from testing in the selectable shift mode.

Engine	ETW	Power (hp)	ETW/Power	Default mode at key-off?	Shift Survey	Previous Survey Report	Shift Mode
2.0L	3625	148	24.5(>15.0)	Yes	N/A	N/A	Default
2.4L	3625	168	21.6(>15.0)	Yes	N/A	N/A	Default

Issue Date : 11-17-2025
Revised Date :

12.03.00 Evaporative Testing Parameters

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(1) Test Vehicle

Test Group	<u>VMTXJ02.4G5V</u>
Evap. Family	<u>VMTXR0135A4D</u>
Engine and T/M	<u>2.4 Liter DOHC4, S-CVT</u>

Under the provision of the MAC 96-05, the FTTP test data for this vehicle was represented by the data of the following Test Group.

Test Group	<u>HMTXV02.0G5P</u>
Evap. Family	<u>HMTXR0135A2D</u>
Engine and T/M	<u>2.0 Liter DOHC4, S-CVT</u>

(2) FTTP and Pressure Profile

List for the Profiles	<u>Attachment 1</u>
Measured Fuel / Vapor Temp. & Tank Pressure	<u>Attachment 2</u>
Measured Vehicle Speed during FTTP Profile	<u>Attachment 3</u>
Coolant Temp. Profile	<u>Attachment 4</u>

(3) Ambient Conditions

	<u>Start of Test</u>	<u>End of Test</u>
Ambient Temp. (deg. F)	107.4	116.2
Track Surface Temp. (deg. F)	148.3	144.9

List for the Ambient Temp.	<u>Attachment 5</u>
Ambient Condition Profile	<u>Attachment 6</u>

(4) Corrected FTTP Profile

FTTP Correction Method

For CARB test sequence : Title 13 section 1976, Standards and Test Procedures

Corrected Fuel / Vapor Temp. Profile	<u>Attachment 7</u>
Corrected Fuel Temp. List	<u>Attachment 1</u>

12.03.02 Canister Loading Procedure

For CARB 3-day diurnal sequence : Title 13 section 1976, Standards and Test Procedures

For CARB 2-day diurnal sequence : Title 13 section 1976, Standards and Test Procedures

Issue Date : 11-17-2025
Revised Date :

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 1-1)

TIME (sec.)	MEASURED FUEL TEMP.1 (deg. F)	MEASURED FUEL TEMP.2 (deg. F)	MEASURED VAPOR TEMP. (deg. F)	MEASURED TANK PRESS. (inch Aq.)	CORRECTED FUEL TEMP. (deg. F)	CORRECTED VAPOR TEMP. (deg. F)
0	109.8	110.8	110.5	0.0	105.1	105.1
30	110.3	111.7	111.2	0.0	105.8	105.8
60	111.3	112.9	112.1	0.0	106.8	106.7
90	112.0	113.9	112.9	-0.4	107.7	107.5
120	112.3	114.6	113.5	0.0	108.2	108.1
150	112.8	115.2	113.8	0.0	108.8	108.4
180	112.7	115.2	113.7	-0.4	108.7	108.3
210	112.9	115.5	114.0	0.0	109.0	108.6
240	113.3	116.0	114.5	-0.8	109.5	109.1
270	113.5	116.4	115.1	-1.2	109.7	109.7
300	113.9	116.6	115.4	-0.4	110.0	110.0
330	114.2	116.8	115.9	-0.8	110.3	110.5
360	114.6	116.9	116.1	0.0	110.5	110.7
390	114.9	117.0	116.3	0.0	110.7	110.9
420	115.2	117.6	116.7	0.0	111.2	111.3
450	115.5	117.7	116.8	0.0	111.4	111.4
480	115.9	118.0	117.1	-1.6	111.7	111.7
510	116.3	118.6	117.5	-1.6	112.3	112.1
540	116.9	119.1	118.0	-1.6	112.8	112.6
570	117.4	119.2	118.5	-0.8	113.1	113.1
600	117.7	119.7	118.9	-3.2	113.5	113.5
630	117.9	120.2	119.3	-1.6	113.9	113.9
660	118.0	120.6	119.5	-2.4	114.1	114.1
690	119.1	121.0	120.1	-1.6	114.8	114.7
720	119.2	121.3	120.4	-1.6	115.0	115.0
750	119.5	121.8	120.8	0.0	115.4	115.4
780	120.1	122.3	121.5	-0.4	116.0	116.1
810	120.7	122.7	121.9	-2.0	116.5	116.5
840	121.1	123.0	122.4	-2.0	116.8	117.0
870	121.7	123.5	123.1	-1.6	117.4	117.7
900	122.2	124.0	123.5	0.0	117.9	118.1
930	122.6	124.6	123.7	0.0	118.3	118.3
960	122.9	124.7	124.2	-2.4	118.6	118.8
990	123.3	125.3	124.5	-2.4	119.1	119.1
1020	123.5	125.3	124.6	-1.2	119.2	119.2
1050	123.8	125.6	124.7	-1.2	119.5	119.3
1080	123.8	125.8	125.2	-0.4	119.6	119.8
1110	123.8	126.0	125.5	-1.6	119.7	120.1
1140	124.4	126.4	125.8	-1.6	120.2	120.4
1170	124.8	126.6	125.9	-2.4	120.5	120.5
1200	124.8	126.8	126.0	-2.4	120.6	120.6
1230	124.9	126.7	126.0	-2.4	120.6	120.6
1260	125.1	127.0	126.5	-2.8	120.8	121.1

Issue Date : 11-17-2025

Revised Date :

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 1-2)

TIME (sec.)	MEASURED FUEL TEMP.1 (deg. F)	MEASURED FUEL TEMP.2 (deg. F)	MEASURED VAPOR TEMP. (deg. F)	MEASURED TANK PRESS. (inch Aq.)	CORRECTED FUEL TEMP. (deg. F)	CORRECTED VAPOR TEMP. (deg. F)
1290	125.2	127.0	126.5	-2.4	120.9	121.1
1320	125.6	127.2	126.7	-1.6	121.2	121.3
1350	125.4	127.2	126.5	-2.8	121.1	121.1
1380	125.6	127.2	126.7	-1.6	121.2	121.3
1410	125.8	127.2	126.9	-1.6	121.3	121.5
1440	125.8	127.0	126.7	-1.6	121.2	121.3
1470	125.8	127.0	126.5	-1.6	121.2	121.1
1500	125.6	126.9	126.5	-1.6	121.0	121.1
1530	125.8	126.7	126.5	-1.6	121.0	121.1
1560	125.8	127.0	126.7	-1.6	121.2	121.3
1590	126.0	127.2	126.9	-2.4	121.4	121.5
1620	126.3	127.8	127.0	-2.4	121.8	121.6
1650	126.7	128.1	127.4	-1.6	122.2	122.0
1680	126.9	128.3	127.8	-1.6	122.4	122.4
1710	127.2	128.7	128.1	-0.4	122.7	122.7
1740	127.6	129.0	128.5	-1.6	123.1	123.1
1770	127.8	129.2	128.7	-1.6	123.3	123.3
1800	127.9	129.4	128.8	-2.4	123.4	123.4
1830	128.1	129.6	128.8	-3.2	123.6	123.4
1860	128.5	129.6	129.0	-2.0	123.8	123.6
1890	128.1	129.6	129.0	-2.0	123.6	123.6
1920	128.3	129.6	129.0	-3.6	123.7	123.6
1950	128.5	129.9	129.4	-1.6	124.0	124.0
1980	128.8	129.7	129.6	-1.6	124.1	124.2
2010	128.8	129.9	129.6	-1.6	124.2	124.2
2040	129.0	130.3	129.9	-0.8	124.4	124.5
2070	129.4	130.6	130.3	-1.6	124.8	124.9
2100	129.6	130.6	130.6	-1.6	124.9	125.2
2130	129.6	130.6	130.8	-2.0	124.9	125.4
2160	129.6	130.6	130.6	-0.4	124.9	125.2
2190	129.9	131.0	131.0	-1.6	125.2	125.6
2220	130.1	131.0	131.2	-2.0	125.3	125.8
2250	130.6	131.5	131.5	-0.8	125.9	126.1
2280	131.0	131.9	131.7	-1.6	126.2	126.3
2310	131.0	132.3	132.4	-0.8	126.4	127.0
2340	131.4	132.3	132.8	-2.0	126.6	127.4
2370	131.7	132.4	133.0	-0.4	126.9	127.6
2400	131.7	133.0	133.2	-2.0	127.1	127.8
2430	132.1	133.2	133.2	-3.2	127.4	127.8
2460	132.3	133.2	133.2	-1.6	127.5	127.8
2490	132.1	133.0	133.2	-1.6	127.3	127.8
2520	132.3	133.0	133.2	-2.4	127.4	127.8
2550	132.4	133.3	133.5	-1.6	127.7	128.1

Issue Date : 11-17-2025

Revised Date :

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 1-3)

TIME (sec.)	MEASURED FUEL TEMP.1 (deg. F)	MEASURED FUEL TEMP.2 (deg. F)	MEASURED VAPOR TEMP. (deg. F)	MEASURED TANK PRESS. (inch Aq.)	CORRECTED FUEL TEMP. (deg. F)	CORRECTED VAPOR TEMP. (deg. F)
2580	132.6	133.3	133.7	-1.6	127.8	128.3
2610	132.8	133.3	133.7	-1.6	127.9	128.3
2640	133.0	133.5	134.1	-0.4	128.0	128.7
2670	133.3	133.9	134.6	-1.6	128.4	129.2
2700	133.5	133.9	134.6	-1.6	128.5	129.2
2730	133.5	133.9	134.6	-1.6	128.5	129.2
2760	133.5	133.9	134.6	-1.6	128.5	129.2
2790	133.5	133.9	134.6	-1.6	128.5	129.2
2820	133.5	133.9	134.8	-1.6	128.5	129.4
2850	133.5	134.1	135.1	-1.6	128.6	129.7
2880	134.1	134.8	135.7	-3.2	129.2	130.3
2910	134.2	135.5	136.6	-0.8	129.7	131.2
2940	135.0	136.4	137.5	-1.6	130.5	132.1
2970	135.1	136.4	137.8	-1.6	130.6	132.4
3000	135.0	136.8	138.2	-1.2	130.6	132.8
3030	135.3	137.1	138.4	-0.8	131.0	133.0
3060	135.5	137.7	138.6	-2.4	131.4	133.2
3090	135.9	137.8	138.9	-0.4	131.6	133.5
3120	136.0	137.8	138.9	0.0	131.7	133.5
3150	136.4	138.2	139.1	-1.6	132.1	133.7
3180	136.4	138.0	138.9	-2.8	132.0	133.5
3210	136.4	138.2	138.7	-1.6	132.1	133.3
3240	136.6	138.2	138.9	-1.6	132.2	133.5
3270	136.6	138.0	138.4	-0.4	132.1	133.0
3300	136.6	137.8	138.0	-2.4	132.0	132.6
3330	136.8	138.0	138.0	-2.0	132.2	132.6
3360	136.9	138.2	138.2	-0.4	132.4	132.8
3390	137.1	138.2	138.2	-1.6	132.4	132.8
3420	137.3	138.4	138.4	-1.2	132.6	133.0
3450	137.1	138.4	138.2	-1.6	132.5	132.8
3480	137.3	138.2	138.2	-2.0	132.5	132.8
3510	137.5	138.2	138.2	-1.6	132.6	132.8
3540	137.5	138.4	138.2	-2.4	132.7	132.8
3570	137.5	138.6	138.4	-0.4	132.8	133.0
3600	137.7	138.7	138.6	-2.4	133.0	133.2
3630	137.8	138.9	138.7	-0.4	133.2	133.3
3660	138.0	139.1	138.9	-2.0	133.3	133.5
3690	138.2	139.3	138.9	-2.4	133.5	133.5
3720	138.4	139.5	138.9	-0.4	133.7	133.5
3750	138.4	139.6	138.9	-2.0	133.8	133.5
3780	138.4	139.6	138.9	-1.6	133.8	133.5
3810	138.6	139.8	138.9	-3.6	134.0	133.5
3840	138.6	139.8	139.1	-2.0	134.0	133.7

Issue Date : 11-17-2025

Revised Date :

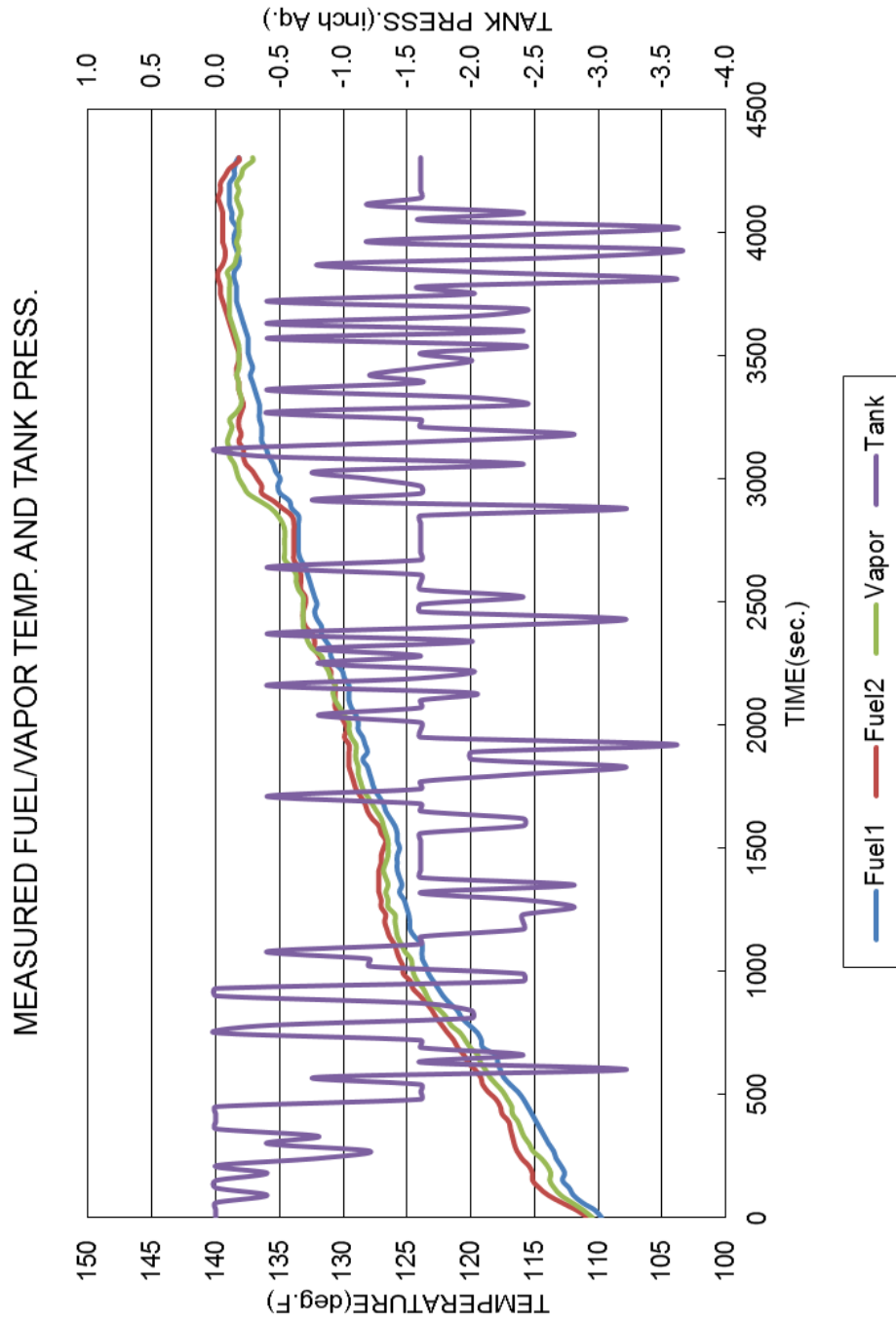
12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 1-4)

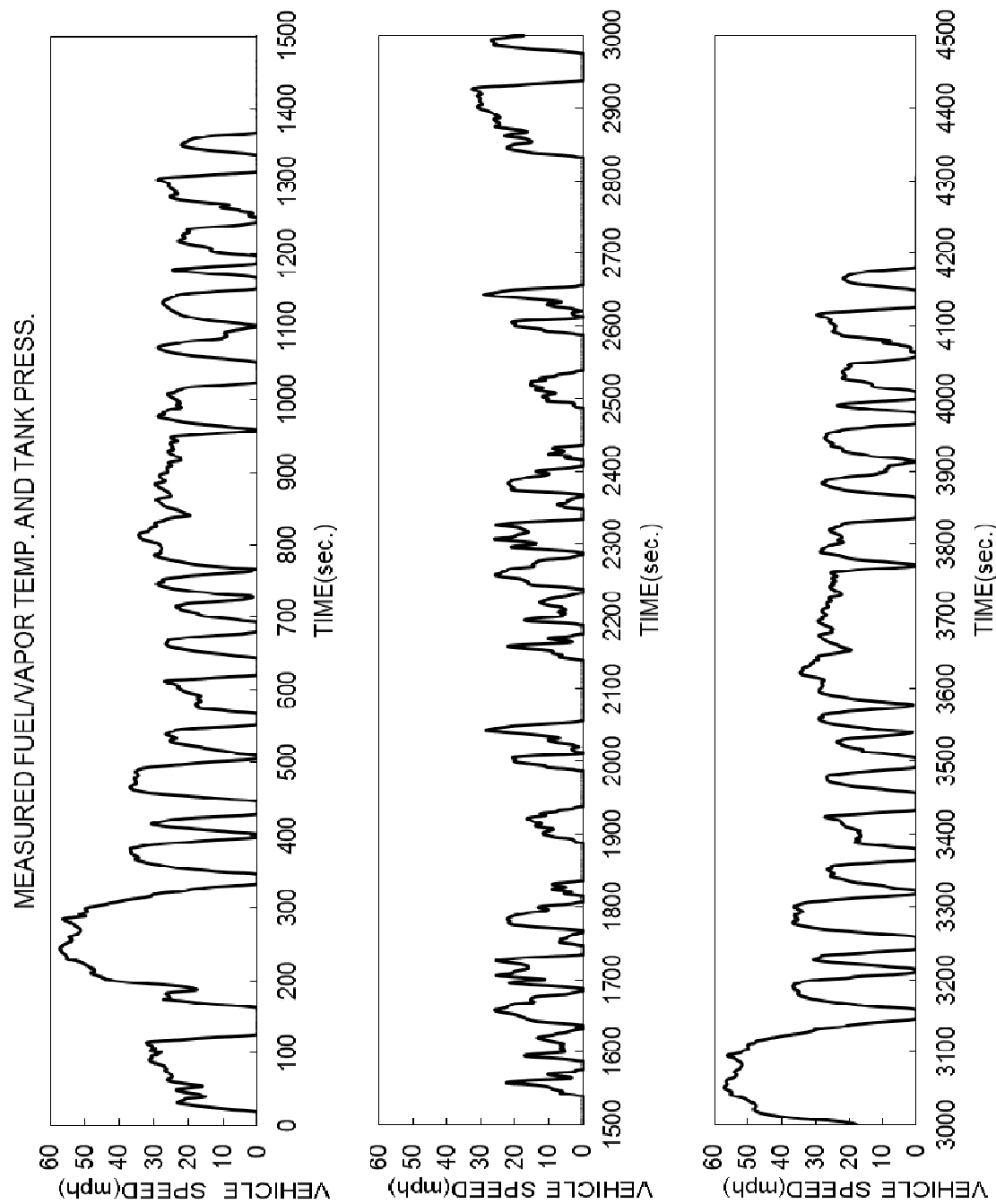
TIME (sec.)	MEASURED FUEL TEMP.1 (deg. F)	MEASURED FUEL TEMP.2 (deg. F)	MEASURED VAPOR TEMP. (deg. F)	MEASURED TANK PRESS. (inch Aq.)	CORRECTED FUEL TEMP. (deg. F)	CORRECTED VAPOR TEMP. (deg. F)
3870	138.2	139.5	138.6	-0.8	133.6	133.2
3900	138.2	139.3	138.4	-2.8	133.5	133.0
3930	138.4	139.3	138.2	-3.6	133.6	132.8
3960	138.6	139.5	138.4	-1.2	133.8	133.0
3990	138.6	139.5	138.2	-2.4	133.8	132.8
4020	138.4	139.5	138.2	-3.6	133.7	132.8
4050	138.7	139.5	138.2	-1.6	133.9	132.8
4080	138.7	139.5	138.0	-2.4	133.9	132.6
4110	138.9	139.6	138.2	-1.2	134.1	132.8
4140	138.9	139.8	138.4	-1.6	134.2	133.0
4170	138.9	139.6	138.2	-1.6	134.1	132.8
4200	138.9	139.6	138.4	-1.6	134.1	133.0
4230	138.6	139.3	138.0	-1.6	133.7	132.6
4260	138.6	138.9	137.8	-1.6	133.5	132.4
4290	138.4	138.2	137.1	-1.6	133.1	131.7
4304	138.2	138.2	137.1	-1.6	133.0	131.7

Issue Date : 11-17-2025

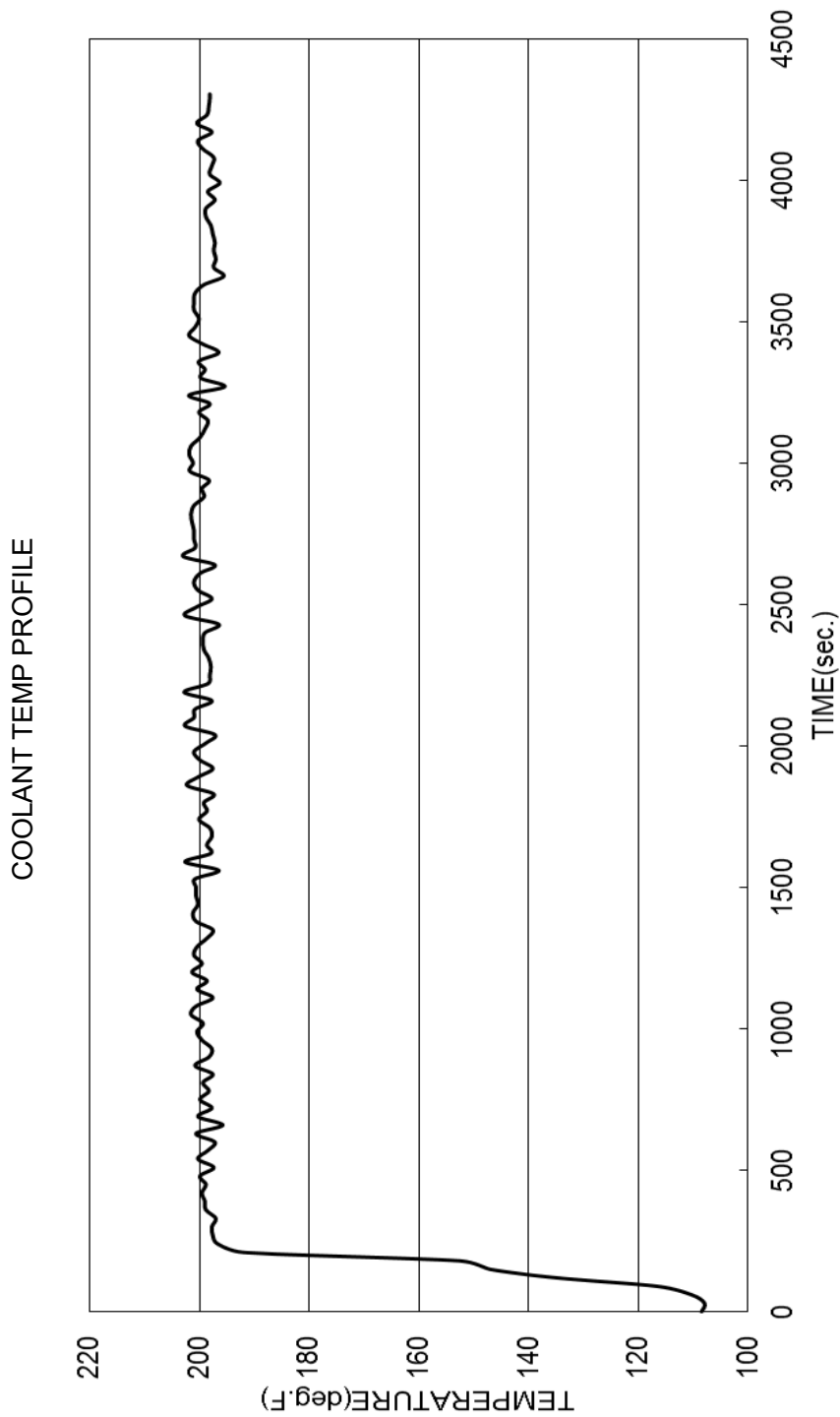
Revised Date :



Issue Date : 11-17-2025
Revised Date :



Issue Date : 11-17-2025
Revised Date :



Issue Date : 11-17-2025
Revised Date :

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 5)

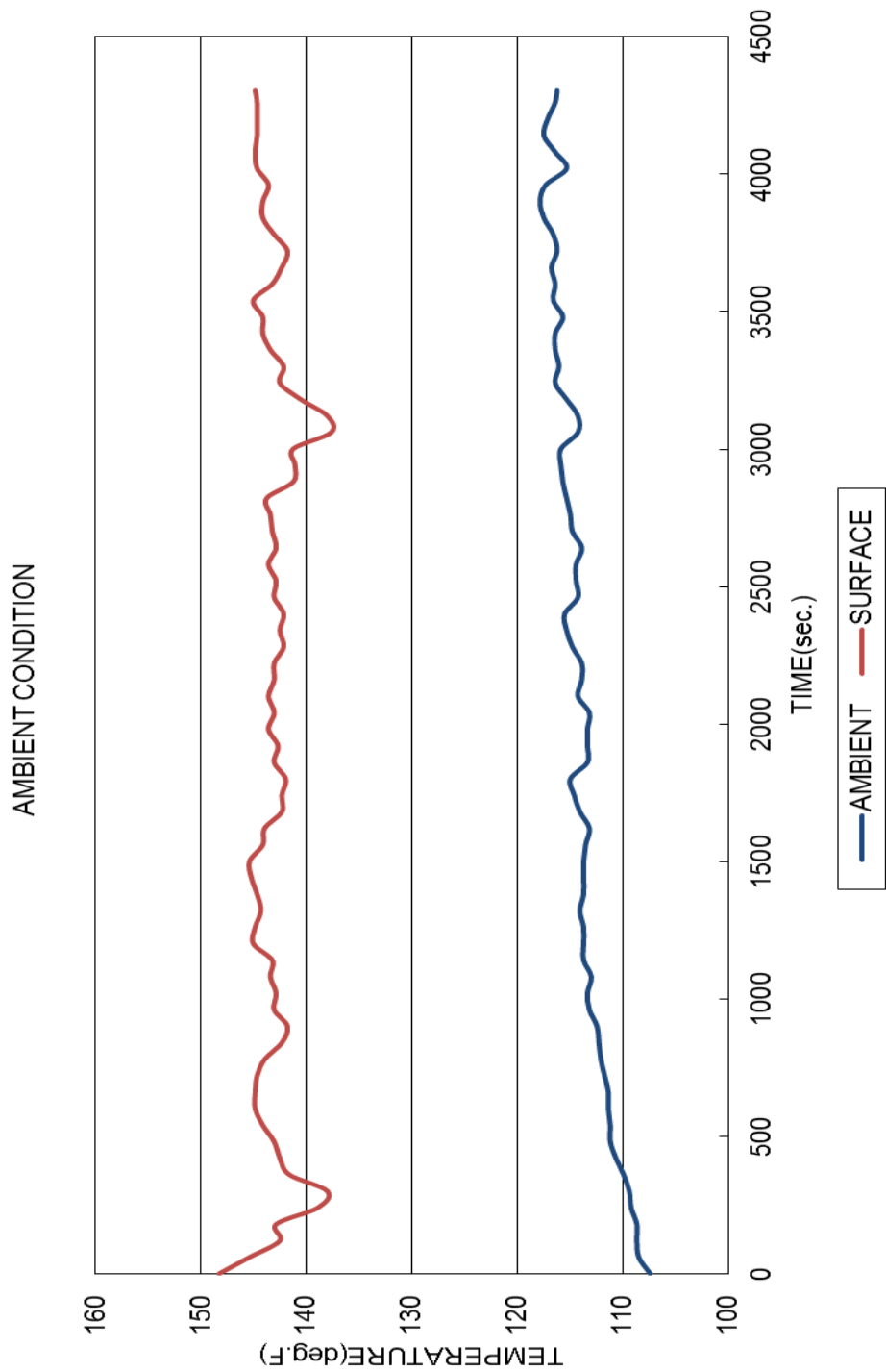
FTTP AMBIENT CONDITION

TIME (sec.)	AMBIENT TEMP. (deg. F)	TRACK SURFACE TEMP. (deg. F)
0	107.4	148.3
60	108.5	145.4
120	108.7	142.5
180	108.7	142.9
240	109.2	138.9
300	109.4	138.0
360	109.9	141.6
420	110.7	142.5
480	111.2	143.1
540	111.2	144.1
600	111.4	144.9
660	111.4	144.9
720	111.7	144.7
780	112.1	144.0
840	112.3	142.3
900	112.5	141.8
960	113.2	143.1
1020	113.4	142.9
1080	113.0	143.4
1140	113.7	143.2
1200	113.7	145.0
1260	113.7	144.9
1320	114.1	144.3
1380	113.7	144.7
1440	113.7	145.2
1500	113.7	145.4
1560	113.5	144.1
1620	113.2	144.0
1680	114.1	142.3
1740	114.6	142.3
1800	115.0	142.0
1860	113.4	143.1
1920	113.4	142.7
1980	113.4	143.6
2040	113.2	143.1
2100	114.3	143.6
2160	113.9	143.1

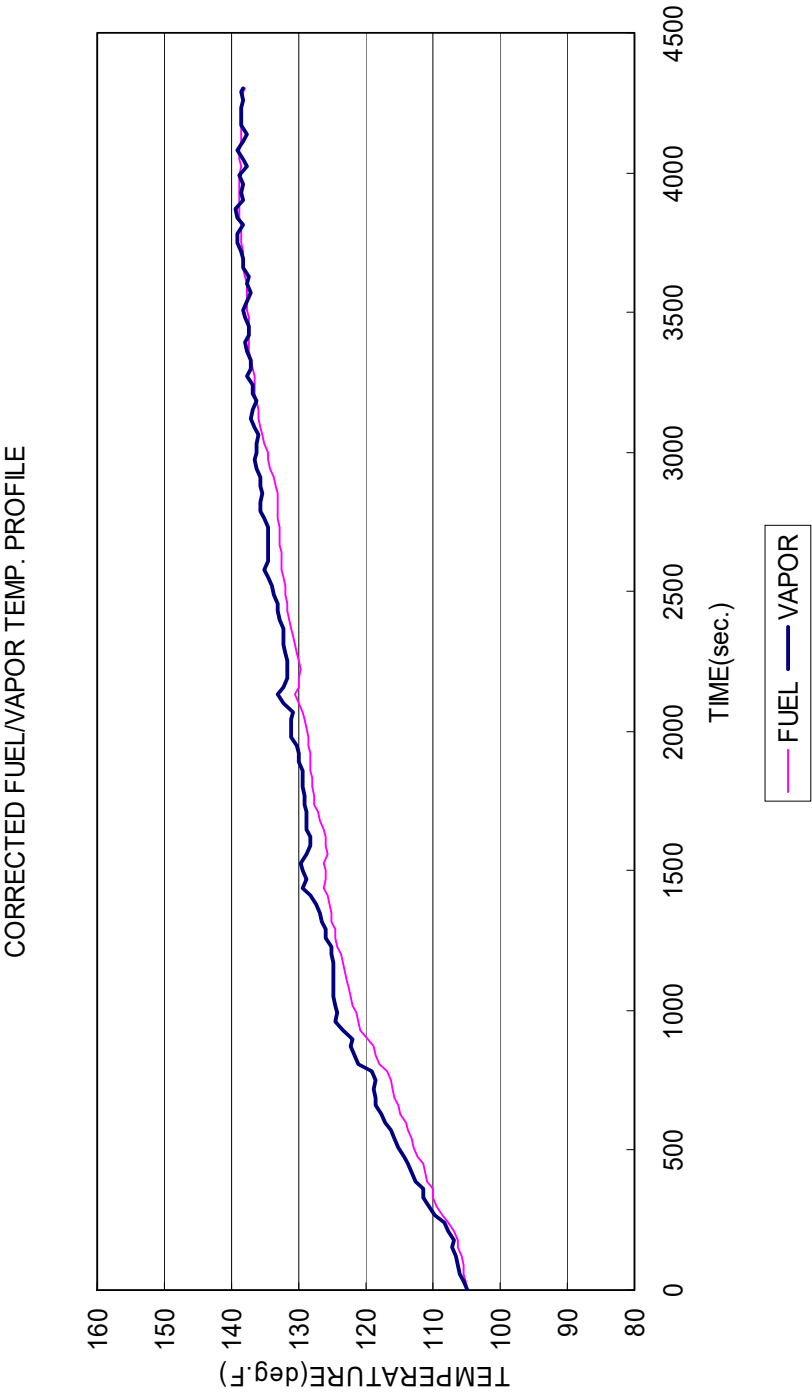
TIME (sec.)	AMBIENT TEMP. (deg. F)	TRACK SURFACE TEMP. (deg. F)
2220	113.9	143.1
2280	114.8	142.2
2340	115.3	142.5
2400	115.5	142.2
2460	114.3	143.1
2520	114.4	142.9
2580	114.4	143.6
2640	113.9	142.9
2700	114.8	143.2
2760	115.0	143.4
2820	115.3	143.8
2880	115.7	141.3
2940	115.9	141.1
3000	115.9	141.3
3060	114.3	137.7
3120	114.3	138.0
3180	115.3	140.5
3240	116.4	142.5
3300	116.1	142.2
3360	116.4	143.4
3420	116.4	144.1
3480	115.7	144.1
3540	116.6	145.0
3600	116.4	143.2
3660	116.8	142.3
3720	116.2	141.8
3780	116.6	143.1
3840	117.5	144.1
3900	117.9	144.1
3960	117.3	143.6
4020	115.3	144.7
4080	116.4	144.9
4140	117.5	144.7
4200	117.1	144.7
4260	116.4	144.7
4304	116.2	144.9

Issue Date : 11-17-2025

Revised Date :



Issue Date : 11-17-2025
Revised Date :



12.04.00 Engine Oil Specification

Model: OUTLANDER SPORT(RVR)

	Certification Test Vehicle Oil	Factory Fill Oil
Brand/Supplier	ENEOS Corporation	ENEOS Corporation
Type of Oil	Non-Synthetic(Gr. III)	Synthetic Blend(Gr. II, III)
Service Grade ILSAC	GF-5	GF-6A
API Category	SN	SP
SAE Viscosity	0W-20	0W-20
FE Improvement Rating	2.9% Seq. VIE FEI SUM	4.6% Seq. VIE FEI SUM

In accordance with CD-2020-03

For in-use vehicles

- "MITSUBISHI MOTORS GENUINE MOTOR OIL SP 0W-20" (or higher) is recommended.
- If the above motor oil (or engine oil) is not available, an equivalent synthetic 0W-20 GF-6A SP motor oil (or engine oil) may be used.

Issue Date : 11-17-2025
Revised Date :

12.05.00 Dynamometer RLHP Information

Model	Engine	T/M Drive	Tire	ETW	Target Coefficients			C/D Time
					A	B	C	
Outlander Sport(RVR)	2.4L	S-CVT 4WD	P225/55R18 P215/70R16	3625	38.961 *1	0.00740 *1	0.024840 *1	16.59 *1
Outlander Sport(RVR)	2.0L	S-CVT 4WD	P225/55R18 P215/70R16	3625	41.680 *1	-0.00506 *1	0.025259 *1	16.08 *1
		S-CVT 2WD	P225/55R18 P215/70R16	3500	43.333	-0.17829	0.026710	16.05

*1 : These values are assigned for 2 wheel drive chassis dynamometer testing.

For Cold CO Testing

Model	Engine	T/M Drive	Tire	ETW	Target Coefficients			C/D Time
					A	B	C	
Outlander Sport(RVR)	2.4L	S-CVT 4WD	P225/55R18	3625	46.311 *1	-0.00562 *1	0.028066 *1	14.48 *1

*1 : These values are assigned for 2 wheel drive chassis dynamometer testing.

Issue Date : 11-17-2025
Revised Date :

12.06.00 Certification Mode

When driving on a chassis dynamometer, Certification Mode should be enabled to prevent false failure detection of the wheel speed sensors and the G-Sensor.

Please contact Mitsubishi Motors Regulatory Affairs and Certification Group for instructions on how to enable Certification Mode.

Approval Letter



January 14, 2009
09CCG-A003

Mr. Karl Simon, Director
Compliance and Innovative Strategies Division
Office of Transportation and Air Quality
U. S. Environmental Protection Agency
2000 Traverwood Drive,
Ann Arbor, Michigan 48105

MITSUBISHI MOTORS CORPORATION
1, Nakashinkiri, Hashima-cho,
Okazaki, Aichi 444-8501 JAPAN

1/21/09
*Reviewed and
Accepted.*
Ayan Sohacki

Ms. Annette Hebert, Chief
Mobile Source Operations Division
California Air Resources Board
9528 Telstar Avenue
El Monte, California 91731

Dear Mr. Simon and Ms. Hebert:

Subject: Request for Carryover of Alternative Test Procedures for 2010 and Subsequent Model Year
Mitsubishi Motors Vehicles

Mitsubishi Motors requests carryover of alternative test procedures for 2010 and subsequent model year vehicles. The procedures were previously approved for 2007 through 2009MY vehicles in Mitsubishi Motors letter # 07CCG-A044 (attached).

To summarize, during emissions dynamometer testing, the vehicle ABS module judges that the ABS system has failed and enacts a system failure mode changing the vehicles operation. To prevent this problem, Mitsubishi Motors proposed and obtained approval to use alternative test procedures disabling the ABS failure judgment and allowing normal vehicle operation.

If there are any questions or to acknowledge Agencies' approval, please contact Mr. David Patterson at (714) 372-9510 or david.patterson@na.mitsubishi-motors.com.

Sincerely,

Tomonobu Sakagami, Manager
Certification and Regulation Compliance Department
Mitsubishi Motors Corporation

cc: Ms. L. Sohacki / Mr. D. Good / Mr. T. Anderson, US EPA
Mr. J. Urkov / Mr. H. Mace / Mr. J. O'Cain, ARB
Mr. T. Yamauchi / Mr. D. Patterson / Mr. J. Buxton, MRDA-CYP
Mr. S. Tashiro / Mr. D. Pawlak / Mr. K. Kawazos, MRDA-AA

Attachment

Issue Date : 11-17-2025
Revised Date :

13.00.00 Projected Sales

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :

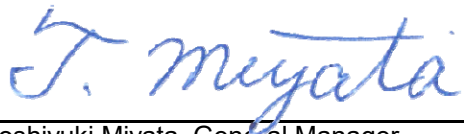
14.00.00 REQUEST FOR CERTIFICATE

14.01.00 Request for Certificate

Test Group	<u>VMTXJ02.4G5V</u>
Evaporative / Refueling Family	<u>VMTXR0135A4D</u>

Mitsubishi requests that EPA issue a 2027 model year certificate of conformity for the above-specified test group and evaporative/refueling family combination as described in this application.

This combination complies with all applicable regulations contained within Title 40 of the Code of Federal Regulations. This combination meets all certification requirements, and the application is current as of this date.



Toshiyuki Miyata, General Manager
Certification and Regulation Compliance Department
Mitsubishi Motors Corporation

Issue Date : 12-04-2025
Revised Date :

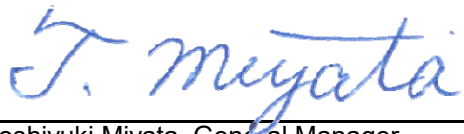
14.00.00 REQUEST FOR CERTIFICATE

14.02.00 Request for Executive Order

Test Group	<u>VMTXJ02.4G5V</u>
Evaporative / Refueling Family	<u>VMTXR0135A4D</u>

Mitsubishi requests that CARB issue a 2027 model year Executive Order for the above-specified test group and evaporative/refueling family combination as described in this application.

This combination complies with all applicable regulations contained within Title 13 of the California Code of Regulations. This combination meets all certification requirements, and the application is current as of this date.



Toshiyuki Miyata, General Manager
Certification and Regulation Compliance Department
Mitsubishi Motors Corporation

Issue Date : 12-04-2025
Revised Date :

15.00.00 Other Information

15.01.00 Notice of Confidential Business Information

All pages under this cover marked in any form with the word CONFIDENTIAL constitute confidential business information and trade secrets of the Mitsubishi Motors Corporation.

DURATION OF CONFIDENTIALITY

FOI Application

Until issuance of Certification of Conformity

CBI Application

Permanent

**ALL PORTIONS OF THIS DOCUMENT, AND ALL INFORMATION CONTAINED
HEREIN, ARE DEEMED CONFIDENTIAL INFORMATION
OF THE MITSUBISHI MOTORS CORPORATION.**

Use, publication or release of this confidential information by unauthorized persons is not permitted without the express written consent of Mitsubishi.

Please address any inquiries concerning this information to:

Andy MabutoI
Manager II

Mitsubishi Motors R & D of America, Inc. (MRDA)
3735 Varsity Drive
Ann Arbor, Michigan 48108
U.S.A.

Telephone Number : 734-971-0900
Fax Number : N/A

15.02.00 ORVR Notification

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :

15.03.00 Fee Filing Form

Applicable to : VMTXJ02.4G5V

EPA_MVECP_v1	
US EPA Fee Form	
Help and EPA Instructions	
* Required Field	
General Information	
Date: 11/20/2025	
Process Code *	
Submit New Fee Filing Form	
Manufacturer Code *	
MTX	
Manufacturer Name *	
Mitsubishi Motors	
Contact Name *	
Andy Mabutol	
Contact Email Address *	Contact Phone *
andy.mabutol@na.mitsubishi-motors.com	(714) 514-2102
Calendar Year complete application submitted to EPA *	
2026	
PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2026, through December 31, 2026. The applicable fee is determined by the	
Amount Owed	
\$32,317.00	
Payment Type *	
Online ACH	
Comments	
EPA Form Number 3520-29	
OMB Control No. 2060-0545	
Approval expires 7/31/2027	
The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.	
The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).	

calendar year in which the complete certification application is received, not the model year.
Engine Family / Evaporative Family / Test Group *
VMTXJ02.4G5V
Certificate Request Type (Industry Sector Code)
Certificate Request Type *
☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
☐ On-Highway HDE Dyno Cert (Federal) (E, H)
☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
☐ On-Highway Motorcycle (C)
☐ On-Highway HDV Evap (F)
☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
☐ Nonroad CI (L)
☐ Nonroad SI (B, S)
☐ Locomotive (G, K)
☐ All Nonroad Recreational, excluding Marine engines (X, Y)
☐ All Marine (Including IMO) (M, N, W)
☐ Component Certification for Evaporative Emissions (P)
IMO Name (Required for dual US/IMO Marine Only)
ICI VIN Number (Required for ICIs Only)
Do you qualify for a Reduced Fee? *
No
Payment Information

Issue Date : 11-21-2025
Revised Date :

16.00.00 California ARB Information

16.01.00 Test Procedure

Refer to Common Application.

16.02.00 Warranty Statement

Refer to Common Application.

16.03.00 Fill Pipe Access Zone Statement and Specifications

Refer to Common Application.

16.04.00 Request for Certificate

Refer to Common Application.

Issue Date : 11-03-2025
Revised Date :

16.05.00

Page 1 of 1

E.O.# _____

**2027 MY AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES**

Manufacturer : Mitsubishi Motors Corporation
Durability Group : VMTXGPGNNNCE Test Group : VMTXJ02.4G5V
Evap. Families : VMTXR0124A4D

Test Group Cert. : 50S
Vehicle Class : PC&LDT1 (LVW:3677 lbs; GVWR: 4343lbs)

Exhaust Std(CA/Federal) : LEV IV ULEV70 / Interim Tier 4 Bin 70
In-Use Exh/Evap Std : 150K / 150K
Fuel Usage / Type(s) : Dedicated / Gasoline
Durability Service ACCUM : Bench(Mfr. ADP)
EDV Std. Compliance : DF
Exhaust Emis. Test Fuel : LEV III (E10 Regular)
NMOG Test Proc : Standard NMOG RAF / Methane RAF : N/A
NMOG/NMHC Ratio : 1.10 (FTP), 1.03 (Hot-start test cycles)
HCHO/NMHC Ratio : 0.002

Evap Standard(CA/Federal) : LEV IV (Option 2 with FEL) / Tier 3
Evap Emis Test Proc : California
R/L Test Procedure : SHED

Exhaust ECS : EGR, WR-HO2S, TWC, HO2S, SFI
(use abbreviations per SAE J1930)

EGR Type : Stepper Motor AIR Type : N/A
Engine Configuration : IL4 Displacement(L/CID) : 2.4 / 144
Valves per Cylinder : 4 Rated HP : 168@6,000RPM
Engine Location : Front
Drive : FWD, 4WD-PT

OBD II Compliance : Partial

NMOG+NOx Flt Avg [g/mi] : Refer to Section 16.12.00 of Common Application.
Zero-Evap NMOG Credit : N/A
ZEV Vehicle Value : N/A

Adjustable Parameters/Tamper Resistance : N/A

Dynamometer RLHP : Refer to Section 12.05.00.

Issue Date : 11-04-2025
Revised Date :

E.O.# _____

**2027 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES**

Manufacturer : Mitsubishi Motors Corporation
Durability Group : VMTXGPGNNNCE
Evap. Families : VMTXR0135A4D

Test Group : VMTXJ02.4G5V
Standard : LEV IV ULEV70, PC&LDT1

	Section #
1 Authorized Contact Persons	01.00.00 **
2 Evap. / Refueling Family	03.02.00 *
3 Exhaust Durability Procedure	04.01.00 *
4 Evap. Emission Bench Test Procedure	16.01.02 *
5 OBD System	09.00.00 **
6 Emission Control System	09.03.02 *
7 Vehicle Parameters	12.01.00 **
8 Test Parameters	12.03.00 **
9 FFTP Test	12.03.01 **
10 Request for Certificate	14.00.00 **
11 High Altitude Compliance	16.01.01 *
12 Alternative test procedure	16.01.03 *
13 Emission System Warranty Statement	16.02.01 *
14 Maintenance Schedule	16.02.02 *
15 Fill Pipe Specifications	16.03.00 *
16 Gen Std, Increase in Emiss, Safety, Meets all Reqmts	16.04.01 *

	Section #
17 Prod Veh Same as Test veh	16.04.01 *
18 Emission Label Durability	
19 Driveability Statement	
20 50 Degree F Compliance	
21 I/M Test Results	16.07.00 *
22 ASM Test Results	16.08.00 *
23 Projected Sales	13.00.00 *
24 Phase-in schedule: OBD-Cold Start Strategy Monitoring	16.10.00 *
25 Smog and Global Warming Score	N/A
26 NMOG + NOx Fleet Average Calculation	16.11.00 **
27 EPA Certificate	To be issued
28 Manufacturer's RAF	N/A
29 AB965 Credits/Withdrawals	N/A
30 Equiv NMOG Proc--ARB Approval	N/A

	Durability Data Vehicle	Emission Data Vehicle	Evap. Data Vehicle
Test Vehicle Information ID C/O or C/A MY /Test Group	DB16-ZB3A 16MY C/O (GMTXT02.4G5P) 5NB-07 19MY C/O (KMTXT02.4G5P)	EB19-ZB6B 19MY C/O*** (KMTXT02.4G5P) EB19-ZB6B 20MY C/O**** (LMTXT02.4G5P)	EB17-CA8A 17MY C/O (HMTXT02.4G5P)

NOTE :

* In Common Section

*** FTP, HWY, US06, SC03, 50F

** In Test Group Application

**** Cold CO

***** Engineering Justification:

17MY Lancer as Test Group HMTXV02.0G5P and 17MY Outlander Sport as Test Group HMTXT02.4G5P shared the same evaporative system. 17MY Lancer was judged worst case because there is less canister purge flow compared to Outlander Sport. 17MY Outlander Sport evaporative system is carried over to 27MY Outlander Sport.

Issue Date : 11-17-2025

Revised Date :

**2027 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES**

PROJECTED EMISSIONS (FTP)

Target Coefficients : A 41.680 / B -0.00506 / C 0.025259

NMOG/NMHC=1.10, HCHO/NMHC=0.002

Data Veh. ID (Config.)	Engine Code (T/M)	Test Loc *5	ETW	Status	Mile	FTP *6								
						NMOG + NOx (g/mile)	NMHC (g/mile)	NOx (g/mile)	CH4 (g/mile)	N2O (g/mile)	CO (g/mile)	CO2 (g/mile)	HCHO (mg/mile)	PM (g/mile)
EB19-ZB6B (00) *1*3	24DA-VEN (S-CVT)	MMC	3625	Cert Level	4K	---	0.013	0.0045	---	---	---	293	---	---
					120K	---	---	---	---	---	---	---	---	---
					150K	0.039	---	---	0.006	0.003	0.4	---	0	0.000
				Standard	120K	---	---	---	---	---	---	---	---	---
					150K	0.070	---	---	0.030	0.010	1.7	---	4	0.001
				Additive DF	120K	---	---	---	---	---	---	---	---	---
					150K	0.0206	---	---	0.0034	0.0016	0.09	---	0	0.0000

Data Veh. ID (Config.)	Engine Code (T/M)	Test Loc *5	ETW	FTP
				Fuel Economy (MPG)
EB19-ZB6B (00) *1*3	24DA-VEN (S-CVT)	MMC	3625	30.0

PROJECTED EMISSIONS (HWY)

Target Coefficients : A 41.680 / B -0.00506 / C 0.025259

Data Veh. ID (Config.)	Engine Code (T/M)	Test Loc *5	ETW	Status	Mile	HWY		
						NMOG + NOx (g/mile)	CO2 (g/mile)	Fuel Economy (MPG)
EB19-ZB6B (00) *1*3	24DA-VEN (S-CVT)	MMC	3625	Cert Level	4K	---	215	40.9
					150K	0.041	---	
				Standard	150K	0.070	---	
				Additive DF	150K	0.0206	---	

Notes) *1: Tested with Phase 3 Fuel

*2: Tested with Tier 3 Fuel

*3: Tested with D-range

*4: Without DF Value

*5: Mitsubishi Motors Corp. / EPA

*6: See Emission Testing Waiver Statement in Common Section 08.02.00.

Issue Date : 11-17-2025

Revised Date :

**2027 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES**

PROJECTED EMISSIONS (US06)

Target Coefficients : A 41.680 / B -0.00506 / C 0.025259

Data Veh. ID (Config.)	Engine Code (T/M)	Test Loc *5	ETW	Status	Mile	US06		
						NMOG+NO _x (g/mile)	CO (g/mile)	PM (g/mile)
EB19-ZB6B (00) *1*3	24DA-VEN (S-CVT)	MMC	3625	Cert Level	150K	0.031	1.0	0.004
				Standard		0.070	9.6	0.006
				Additive DF		0.0206	0.09	0.0004

PROJECTED EMISSIONS (SC03)

Target Coefficients : A 41.680 / B -0.00506 / C 0.025259

Data Veh. ID (Config.)	Engine Code (T/M)	Test Loc *5	ETW	Status	Mile	SC03	
						NMOG+NO _x (g/mile)	CO (g/mile)
EB19-ZB6B (00) *1*3	24DA-VEN (S-CVT)	MMC	3625	Cert Level	150K	0.026	0.2
				Standard		0.070	1.7
				Additive DF		0.0206	0.09

PROJECTED EMISSIONS (50degF)

Target Coefficients : A 41.680 / B -0.00506 / C 0.025259

Data Veh. ID	Status	Mile	50degF emissions		
			NMOG + NO _x (g/mile)	CO (g/mile)	HCHO (g/mile)
EB19-ZB6B (00) *1*3	Cert Level *4	4K	0.064	0.6	0.000
	Standard		0.140	1.7	0.016

Notes) *1: Tested with Phase 3 Fuel

*2: Tested with Tier 3 Fuel

*3: Tested with D-range

*4: Without DF Value

*5: Mitsubishi Motors Corp. / EPA

Issue Date : 11-17-2025
Revised Date :

**2027 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES**

PROJECTED EMISSIONS (Cold CO)

Target Coefficients : A 45.848 / B -0.00557 / C 0.027785

Data Veh. ID (Config.)	Engine Code (T/M)	Test Loc *5	ETW	Status	Mile	Cold CO (g/mile)
EB19-ZB6B (04) *2*3	24DA-VEN (S-CVT)	MMC	3625	Cert Level	50K	1.6
				Standard		10.0
				Additive DF		0.03

PROJECTED EMISSIONS (Evaporative)

Target Coefficients : A 33.947 / B -0.16760 / C 0.021600

Data Veh. ID (Config.)	Engine Code (T/M)	Test Loc *5	ETW	Status	Mile	Evaporative Emissions				
						RL (g/mile)	2Day D+HS (Highest) (g/test)	3Day D+HS (g/test)	ORVR (g/gallon)	Bleed (g/test)
EB17-CA8A (03)*1	20DH-VEN (S-CVT)	MMC	3250	Cert Level	150K	0.01	0.193	0.130	---	---
				FEL		---	0.300	0.300	---	---
				Standard		0.05	0.300	0.300	---	---
				Bench DF		0.000	0.0000	0.0000	---	---
EB17-CA8A (03)*2				Cert Level	150K	---	---	---	0.02	---
				Standard		---	---	---	0.20	---
				Bench DF		---	---	---	0.007	---
EB17-CA8A (04)*1				Cert Level	150K	---	---	---	---	0.009
				Standard		---	---	---	---	0.020
				Bench DF		---	---	---	---	0.0000

Notes) *1: Tested with Phase 3 Fuel

*2: Tested with Tier 3 Fuel

*3: Tested with D-range

*4: Without DF Value

*5: Mitsubishi Motors Corp. / EPA

Issue Date : 11-17-2025
Revised Date :

16.07.00 I/M Testing

Refer to Common Application.

16.08.00 ASM Testing

Refer to Common Application.

16.09.00 California Projected Sales

Refer to Common Application.

16.10.00 California OBD II Phase-in Schedule

Refer to Common Application.

Issue Date : 10-30-2025
Revised Date :

16.11.00 Label

16.11.01 Vehicle Emission Control Information Label

	MITSUBISHI MOTORS CORPORATION VEHICLE EMISSION CONTROL INFORMATION		
	Conforms to regulations : [*2] MY U.S. EPA : [*3] OBD : [*4] Fuel : [*5] California : [*6] OBD : [*7] Fuel : [*8] ----- [*9] -----		
TEST GROUP : [*10] EVAPORATIVE FAMILY : [*11]		NO adjustments needed [*12] L	
ENGINE OIL: [----- [*13] -----]		 [----- [*1] -----]	

14805W730P	2027	INTERIM T4B70 LDT1	II	Gasoline	LEV IV ULEV70 LDT1	II	Gasoline
14805W720P	2027	INTERIM T4B70 LDT1	II	Gasoline	LEV IV ULEV70 LDT1	II	Gasoline
14805W710P	2027	INTERIM T4B70 LDV	II	Gasoline	LEV IV ULEV70 PC	II	Gasoline
[*1]	[*2]	[*3]	[*4]	[*5]	[*6]	[*7]	[*8]
PART NUMBER	MODEL YEAR	STATEMENT & VEHICLE TYPE	OBD	FUEL	STATEMENT & VEHICLE TYPE	OBD	FUEL
U.S. EPA				California			

EGR.WR-HO2S.TWC.HO2S.SFI	VMTXJ02.4G5V	VMTXR0135A4D	2.4	SAE 0W-20
EGR.WR-HO2S.TWC.HO2S.SFI	VMTXJ02.4G5V	VMTXR0135A4D	2.0	SAE 0W-20
EGR.WR-HO2S.TWC.HO2S.SFI	VMTXJ02.4G5V	VMTXR0135A4D	2.0	SAE 0W-20
[*9]	[*10]	[*11]	[*12]	[*13]
EMISSION CONTROL SYSTEM	TEST GROUP	EVAPORATIVE FAMILY	ENGINE DISPLACEMENT	ENGINE OIL

Issue Date : 11-18-2025
 Revised Date :

17.00.00 SERVICE OF PROCESS

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :

18.00.00 References

18.01.00 Certification Change

Refer to Common Application.

Issue Date : 10-22-2025
Revised Date :