Application for Certification - Part 1

Test Group Application

2026 Model Year

Mitsubishi Motors Corporation

Test Group Durability Group Evap. Families	TMTXT02.4H3Y TMTXHHVGNDBB TMTXR0174A4M
Durability Gr. Description	Four Stroke, Otto Cycle, Gasoline Fueled, SFI
Applicable Standards	Exhaust Emission Federal : Tier 3 Bin 30, LDT3 California : LEV IV SULEV30, LDT3 Evaporative Emission Federal : Tier 3, LDT3 California : LEV IV, LDT3
Carlines Covered	Nissan ROGUE PLUG-IN HYBRID

Emission Data Vehicles :

Veh. ID	Config.	Test Type	Test No.
EB26-DH21	00	FTP	PMTX10071398
		HWY	PMTX10071399
		US06	PMTX10071400
		SC03	PMTX10071401
		50F	PMTX10071459
	01	Cold CO	PMTX10071461
	04	UDDS	PMTX10071416
		HFEDS	PMTX10071417
EB23-DH13	03	Evap. 2-Day	PMTX10071635
		Evap. 3-Day	PMTX10071750
		Running Loss	PMTX10071749
		ORVR	PMTX10071436

Response Requested by : November 26, 2025 (for EPA and ARB)

For Questions, Contact :
Andy Mabutol MRDA Telephone Number : 714-514-2102
Fax Number : N/A

Issue Date : 08-28-2025
Revised Date :

CARB Mobile Source Certification and Compliance Fee

1. Invoice
   Refer to the next page.

2. MS Fee Payment Confirmation

From: noreply@salesforce.com <noreply@salesforce.com> **On Behalf Of** California Air
Sent: Wednesday, August 20, 2025 11:30 AM
To: Mabutol Andy <Andy.Mabutol@na.mitsubishi-motors.com>
Subject: MS Fee Payment Confirmation for Invoice MSF241333

[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 MSF241333. 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 – 24ATD360
2. Date of Payment – 6/25/2025
3. Payment Status - Paid

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	MSF241333
Invoice Date	Jun 12, 2025

COMPANY INFORMATION

Company Name	Mitsubishi Motors Corporation
Address	3735 Varsity Drive
City	Ann Arbor
State	MI
Zip	48108
Country	USA
Contact Name	Andy Mabutol
Contact Telephone Number	714-514-2102
Contact Email	andy.mabutol@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	ROGUE PLUG-IN HYBRID	Model Year 2026	TMTXT02.4H3Y	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 48,447.00

Total Due	$ 48,447.00

I, Andy Mabutol _ , attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

2026 MY Application for Certification

Application : Test Group Application

Section No.	Content	Application
	MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM	Test Group
	PREFACE	Common
01.00.00	CORRESPONDENCE AND COMMUNICATIONS	Common, Test Group
02.00.00	DURABILITY GROUP DESCRIPTION	Common
03.00.00	EVAPORATIVE/ REFUELING FAMILY DESCRIPTION	Common
04.00.00	DURABILITY PROCI TMTXHHVGNDBB	Common
05.00.00	TEST GROUP DESCRIPTION	Common, Test Group
06.00.00	TEST VEHICLE DESCRIPTION	Test Group
07.00.00	TEST RESULTS	Test Group
08.00.00	EMISSION COMPLIANCE STATEMENTS	Common
09.00.00	OBD SYSTEM DESCRIPTION	Common, Test Group
10.00.00	DESCRIPTION OF ALTERNATE-FUELED VEHICLES	Common
11.00.00	AECD DESCRIPTION	Common
12.00.00	DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE AND TEST PARAMETERS	Test Group
13.00.00	PROJECTED SALES	Common
14.00.00	REQUEST FOR CERTIFICATE	Test Group
15.00.00	OTHER INFORMATION	Common, Test Group
16.00.00	CALIFORNIA ARB INFORMATION	Common, Test Group
17.00.00	SERVICE OF PROCESS	Common
18.00.00	REFERENCES	Common

PREFACE

Refer to Common Section.

01.00.00 CORRESPONDENCE AND COMMUNICATIONS

Refer to Common Section.

Issue Date : 08-21-2025
Revised Date :

02.00.00 DURABILITY GROUP DESCRIPTION

02.01.00 Breakdown of Durability Group

Refer to Common Section.

02.02.00 Durability Group Description

Refer to Common Section.

Issue Date : 08-21-2025
Revised Date :

03.00.00 EVAPORATIVE / REFUELING FAMILY DESCRIPTION

Evaporative Family Name : TMTXR0174A4M

03.01.00 Breakdown of Evap. / Refueling Family

Refer to Common Section.

03.02.00 Evap. / Refueling Family

Refer to Common Section.

Issue Date : 08-21-2025
Revised Date :

04.00.00 DURABILITY PROCEDURE DESCRIPTION

04.01.00 Exhaust Durability Procedures

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

04.02.00 Evaporative System Durability Procedure

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

Issue Date : 08-21-2025
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	TMTXT02.4H3Y
Durability Group	TMTXHHVGNDBB
Engine Displacement	2.4L
Number of cylinders	4
Arrangement of cylinders	Inline
Applicable Emission Standards	Federal : Tier 3 Bin 30 FEL(Cold NMHC) : 0.5 g/mi California : LEV IV SULEV30

Based on 40 CFR 86.1827-01

Issue Date : 08-21-2025
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	DDV	DDV
Test Vehicle ID	EB23-DH11	NG-29	EG-95
Cofiguration No.	00, 01, 04	00, 01	00, 01
Note	-	Except for PM	Only for PM

For Evap. and Refueling Emisssion Test

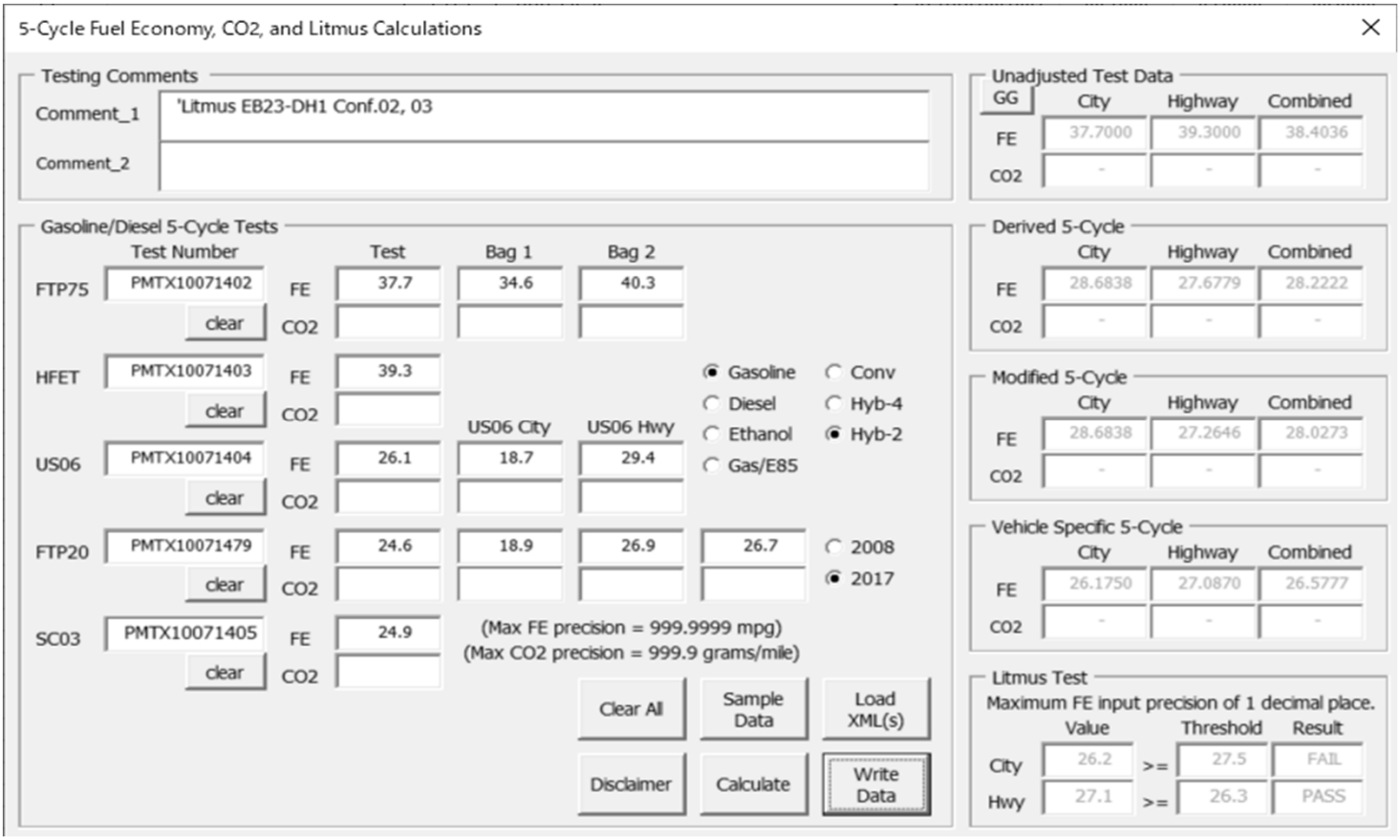
Test Vehicle Type	EDV	DDV
Test Vehicle ID	EB23-DH13	NE-03
Cofiguration No.	03	00, 01
Note	-	-

Issue Date : 08-21-2025
Revised Date :

07.00.00 TEST RESULTS

07.01.00 Litmus Judgments Calculation Result

Template File Name: 5-Cycle Calculator 2023_06_29.xlsm



Issue Date : 08-21-2025
Revised Date :

07.02.00 Certification Summary Information (CSI) Report

Test Group : TMTXT02.4H3Y

Evaporative/Refueling Family : TMTXR0174A4M

Issue Date : 08-21-2025
Revised Date :

Certification Summary Information Report

Manufacturer	Mitsubishi Motors Corporation	**Manufacturer Code**	MTX
Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	06/23/2025 10:19:24 PM
Model Year	2026		

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

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

Drive Source #2: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	No

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	Yes
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	Yes
Fuel Cell Indicator	No	**EPA Vehicle Class**	LDT3
Federal Clean Fuel Vehicle	No	**Federal Clean Fuel Vehicle Standard**	--
Federal Clean Fuel Vehicle ILEV	No	**California Partial Zero Emissions Vehicle Indicator**	Yes
Durability Group Name	TMTXHHVGNDBB	**Durability Group Equivalency Factor**	0.9
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	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	TMTXT01.5H3P
Test Group OBD Compliance Level	Full - no deficiencies	**Number of Test Group OBD Deficiencies**	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Evaporative/Refueling Family Information

Evaporative Summary Information Type	New	**Submission/Correction Date**	05/15/2025 06:15:34 AM
Integrated ORVR?	No	**Fuel(s)**	Gasoline, Electricity
Multiple Fuel Storage	Fuels Stored Separately		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	**Fuel Tank Material Description**	HDPE (High density polyethylene multi layer)
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)	174	**Number of Primary Canisters**	2
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	No	**Applicability of Evaporative Canister Bleed Test**	--
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
TMTXR0174A4M-A4M	50 State	0.02	All test groups in this Evap Leak Family comply with the California OBD requirements (0.020 inch diameter leak detection).

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Mitsubishi Motors Corporation	2 - Nissan Motor Co., Ltd.	158 - ROGUE PLUG-IN HYBRID	Federal	All Wheel Drive	Automatic	1	No
Mitsubishi Motors Corporation	2 - Nissan Motor Co., Ltd.	158 - ROGUE PLUG-IN HYBRID	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No

Engine Description

Hybrid Type	IC Engine/Electric Motor	**Hybrid Description**	--
Engine Type	4-Stroke Spark Ignition	**Mfr Engine Description**	--
Engine Block Arrangement	Inline	**Mfr Engine Block Arrangement Description**	--
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	0W-20
Number of Cylinders/Rotors	4	**Mechanically Variable Compression Ratio Indicator**	N

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	Evaporative/Refueling Family	TMTXR0174A4M

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 + Palladium + Rhodium	Ceramic	Monolith

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Engine Configuration Number 1

Engine Displacement (liters)	2.4	**Engine Rated Horsepower**	131
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	Inlet only		
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**	Yes
EGR Type	Electronic/Electric	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	No		
Air Injection Type	--	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	--		

Official Test Numbers

Test Group 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	PMTX10071398	PMTX10071400	PMTX10071401	PMTX10071461	PMTX10071399	23.1	228.2	34.1	286.1	--
Electricity	PMTX10071398	PMTX10071400	PMTX10071401	PMTX10071461	PMTX10071399	--	--	--	--	--

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Electricity	PMTX10071416	PMTX10071417

Hybrid Electric Vehicle And Fuel Cell Information

Rechargable Energy Storage System	Battery(s)	**Rechargable Energy Storage System, if Other**	--
Battery Type	Lithium Ion	**Number of Battery Packs**	1
Total Voltage of Battery Packs	350	**Battery Energy Capacity**	56.27
Battery Specific Energy	225	**Battery Charger Type**	Both
Number of Capacitors	--	**Capacitor Rating (In Farads)**	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	**Driver Controlled Regenerative Braking**	Yes
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	DC Permanent Magnet, brushless	**Rated Motor/Generator Power**	85
Motor/Generator Type 2	DC Permanent Magnet, brushless	**Rated Motor/Generator Power**	100
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	**Usable H2 Fill Capacity (kg)**	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Emission Data Vehicle Information

Vehicle ID / Configuration	EB23-DH11 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PMTXT02.4H3M	**Original Evaporative/Refueling Family**	PMTXR0174A2M
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	MITSUBISHI	**Represented Test Vehicle Model**	Outlander PHEV

Leak Family Details

Leak Family Identifier	A2M	**Leak Family Name**	PMTXR0174A2M-A2M

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	5	**Odometer Correction Factor**	1.01
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	24DU-UEN	**Rated Horsepower**	131
Displacement (liters)	2.4		
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**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4776	**Equivalent Test Weight (pounds)**	5250
GVWR (lbs)	6063	**N/V Ratio**	41
Axle Ratio	3.43		
Transmission Type	Automatic	**# of Transmission Gears**	1
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	Evaporative/Refueling Family	TMTXR0174A4M

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	41.575	0.20266	0.023401	0	0	0.0234	14.7
US06	41.575	0.20266	0.023401	0	0	0.0234	N/A

Emission Control Device Comments Revised the Odometer Correction Factor to 1.01 from 1.02.

Manufacturer Test Vehicle Comments N/V ratio is calculated by axle ratio between engine and differential gear.

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071398**	**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	07/20/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2213
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2486	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	371	--
FE BAG 1 (Bag 1 Fuel Economy)	23.2938	23.2938
CO2 BAG 2 (Bag 2 Carbon Dioxide)	290	--
FE BAG 2 (Bag 2 Fuel Economy)	29.8026	29.8026
METHANE (CH4 - Methane)	0.00052	--
CO (Carbon Monoxide)	0.00819	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.11	--
DT-EER (Drive Trace Energy Economy Rating)	-0.78	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.53	--
HCHO (Formaldehyde)	0.00001	--
MFR FE (Manufacturer Fuel Economy)	26.674	26.674
NOX (Nitrogen Oxide)	0.01604	--
N2O (Nitrous Oxide)	0.00076	--
HC-NM (Non-methane Hydrocarbon)	0.00498	--
NMOG (Non-methane organic gases)	0.00548	--
PM (Particulate Matter)	0.00037	--
HC-TOTAL (Total Hydrocarbon)	0.00547	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	324.03	999

Certification Summary Information Report

Test Group TMTXT02.4H3Y **Evaporative/Refueling Family** TMTXR0174A4M

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	324.41623	--

Manufacturer Test Comments 0K-MILE(00) UDDS FUEL:LEVIII ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.1 Power Mode

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	1.395	1394	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0005	--	--	--	0.0017	--	0.002	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0008	--	--	--	0.0001	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.01	--	--	--	0.09	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.39	--	--	--	0.09	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0.0000	--	--	--	0.0000	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0055	--	1.10	--	0.0036	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0215	--	1.10	--	--	--	0.028	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0219	--	--	--	--	--	0.022	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0160	--	--	--	0.0032	--	0.019	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0004	--	--	--	0.0002	--	0.001	0.003	Pass
CA	120,000 miles	California LEV-IV SULEV30	METHANE	0.0005	--	--	--	0.0017	--	0.002	0.030	Pass
CA	120,000 miles	California LEV-IV SULEV30	N2O	0.0008	--	--	--	0.0001	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.01	--	--	--	0.09	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	HCHO	0.0000	--	--	--	0.00000	--	0.000	0.004	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0055	--	1.10	--	0.0036	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0215	--	1.10	--	--	--	0.028	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0160	--	--	--	0.0032	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0004	--	--	--	0.0002	--	0.001	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	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071459**	**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	09/01/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2213
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2963	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	438.2436	--
FE BAG 1 (Bag 1 Fuel Economy)	19.8643	19.8643
CO2 BAG 2 (Bag 2 Carbon Dioxide)	327.453	--
FE BAG 2 (Bag 2 Fuel Economy)	26.6159	26.6159
CO2 BAG 3 (Bag 3 Carbon Dioxide)	295.908	--
FE BAG 3 (Bag 3 Fuel Economy)	29.4017	29.4017
METHANE (CH4 - Methane)	0.00103	--
CO (Carbon Monoxide)	0.01508	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.03	--
DT-EER (Drive Trace Energy Economy Rating)	0.75	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.53	--
HCHO (Formaldehyde)	0.00002	--
MFR FE (Manufacturer Fuel Economy)	25.4459	25.4459
NOX (Nitrogen Oxide)	0.01158	--
HC-NM (Non-methane Hydrocarbon)	0.00712	--
NMOG (Non-methane organic gases)	0.00783	--
HC-TOTAL (Total Hydrocarbon)	0.00808	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	342.06	--

Certification Summary Information Report

Test Group TMTXT02.4H3Y **Evaporative/Refueling Family** TMTXR0174A4M

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	341.78086	--

Manufacturer Test Comments 4K-MILE(00) 50F FTP FUEL:LEVIII ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.1 Power Mode

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-IV SULEV30	CO	0.02	--	--	--	--	--	0.0	1.0	Pass
CA	4,000 miles	California LEV-IV SULEV30	HCHO	0.0000	--	--	--	--	--	0.000	0.008	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG	0.0078	--	1.10	--	--	--	0.008	999.999	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0194	--	1.10	--	--	--	0.019	0.060	Pass
CA	4,000 miles	California LEV-IV SULEV30	NOX	0.0116	--	--	--	--	--	0.012	999.999	Pass

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071399**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	07/20/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2213
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2504	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0025	--
CO (Carbon Monoxide)	0.1306	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.21	--
DT-EER (Drive Trace Energy Economy Rating)	0.42	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.83	--
MFR FE (Manufacturer Fuel Economy)	22.7899	22.7899
NOX (Nitrogen Oxide)	0.0014	--
HC-NM (Non-methane Hydrocarbon)	0.0149	--
NMOG (Non-methane organic gases)	0.01535	--
HC-TOTAL (Total Hydrocarbon)	0.01722	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	379.26	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	379.06992	--

Manufacturer Test Comments 4K-MILE(00) HWY FUEL:LEVIII ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.03 Charge mode

Certification Summary Information Report

Test Group TMTXT02.4H3Y **Evaporative/Refueling Family** TMTXR0174A4M

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	1.151	1150	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0	--	1.03	--	0.0036	--	0	999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0	--	1.03	--	--	--	0.007	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0	--	--	--	0.0032	--	0	999	Pass
CA	120,000 miles	California LEV-IV SULEV30	CREE	999	--	--	--	0	1.151	1150	--	--
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0154	--	1.03	--	0.0036	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0168	--	1.03	--	--	--	0.024	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0014	--	--	--	0.0032	--	0.005	999.999	Pass

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

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071400**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	07/20/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2213
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2527	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	468	--
FE BAG 1 (Bag 1 Fuel Economy)	18.2738	18.2738
CO2 BAG 2 (Bag 2 Carbon Dioxide)	301	--
FE BAG 2 (Bag 2 Fuel Economy)	28.6473	28.6473
CO (Carbon Monoxide)	1.01604	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2	--
DT-EER (Drive Trace Energy Economy Rating)	-0.53	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.97	--
MFR FE (Manufacturer Fuel Economy)	25.4464	25.4464
NOX (Nitrogen Oxide)	0.00152	--
HC-NM (Non-methane Hydrocarbon)	0.01779	--
NMOG (Non-methane organic gases)	0.01832	--
PM (Particulate Matter)	0.00067	--
HC-TOTAL (Total Hydrocarbon)	0.02045	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	337.96302	--

Manufacturer Test Comments 4K-MILE(00) US06 FUEL:LEVIII ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.03 Normal Mode

Certification Summary Information Report

Test Group TMTXT02.4H3Y **Evaporative/Refueling Family** TMTXR0174A4M

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 30	PM	0.0007	--	--	--	0.0002	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	1.02	--	--	--	0.09	--	1.1	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0183	--	1.03	--	0.0036	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0198	--	1.03	--	--	--	0.027	0.036	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0015	--	--	--	0.0032	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0007	--	--	--	0.0002	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071401**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	07/27/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2213
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2680	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0.03511	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.21	--
DT-EER (Drive Trace Energy Economy Rating)	0.64	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.05	--
MFR FE (Manufacturer Fuel Economy)	14.0825	14.0825
NOX (Nitrogen Oxide)	0.00537	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.00067	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	618.30658	--

Manufacturer Test Comments 4K-MILE(00) SC03 FUEL:LEVIII ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.03 Charge Mode

Certification Summary Information Report

Test Group TMTXT02.4H3Y **Evaporative/Refueling Family** TMTXR0174A4M

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-IV SULEV30	CO	0.04	--	--	--	0.09	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0000	--	1.03	--	0.0036	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0054	--	1.03	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0054	--	--	--	0.0032	--	0.009	999.999	Pass

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Emission Data Vehicle Information

Vehicle ID / Configuration	EB23-DH11 / 1	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PMTXT02.4H3M	**Original Evaporative/Refueling Family**	PMTXR0174A2M
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	MITSUBISHI	**Represented Test Vehicle Model**	Outlander PHEV

Leak Family Details

Leak Family Identifier	A2M	**Leak Family Name**	PMTXR0174A2M-A2M

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	5	**Odometer Correction Factor**	1.01
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	24DU-UEN	**Rated Horsepower**	131
Displacement (liters)	2.4		
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**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4776	**Equivalent Test Weight (pounds)**	5250
GVWR (lbs)	6063	**N/V Ratio**	41
Axle Ratio	3.43		
Transmission Type	Automatic	**# of Transmission Gears**	1
Transmission Lockup	No	**Creeper Gear**	No

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**
Cold CO	45.733	0.22293	0.025741	-13.81	0.1188	0.02248	N/A

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Emission Control Device Comments	Revised the Odometer Correction Factor to 1.01 from 1.02.
Manufacturer Test Vehicle Comments	N/V ratio is calculated by axle ratio between engine and differential gear.

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071461**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/03/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ15	**Fuel Calibration Number**	6211
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3001	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	502	--
FE BAG 1 (Bag 1 Fuel Economy)	17.132	17.132
CO2 BAG 2 (Bag 2 Carbon Dioxide)	522	--
FE BAG 2 (Bag 2 Fuel Economy)	16.5382	16.5382
CO2 BAG 3 (Bag 3 Carbon Dioxide)	385	--
FE BAG 3 (Bag 3 Fuel Economy)	22.4062	22.4062
METHANE (CH4 - Methane)	0.00268	--
CO (Carbon Monoxide)	0.28825	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.88	--
DT-EER (Drive Trace Energy Economy Rating)	0.04	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3	--
MFR FE (Manufacturer Fuel Economy)	17.9674	17.9674
NOX (Nitrogen Oxide)	0.01173	--
HC-NM (Non-methane Hydrocarbon)	0.01506	--
NMOG (Non-methane organic gases)	0.01657	--
HC-TOTAL (Total Hydrocarbon)	0.01756	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	480.51	--

Certification Summary Information Report

Test Group TMTXT02.4H3Y **Evaporative/Refueling Family** TMTXR0174A4M

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	480.34928	--

Manufacturer Test Comments 4K-MILE(01) COLD-CO FUEL:Tier3-C-Regular ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.10 Power mode

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 30	CO	0.29	--	--	--	0.03	--	0.3	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.02	--	--	--	0.00	--	0.0	0.5	Pass
CA	50,000 miles	California LEV-IV SULEV30	CO	0.29	--	--	--	0.03	--	0.3	12.5	Pass

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Emission Data Vehicle Information

Vehicle ID / Configuration	EB23-DH11 / 4	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PMTXT02.4H3M	**Original Evaporative/Refueling Family**	PMTXR0174A2M
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	MITSUBISHI	**Represented Test Vehicle Model**	Outlander PHEV

Leak Family Details

Leak Family Identifier	A2M	**Leak Family Name**	PMTXR0174A2M-A2M

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	5	**Odometer Correction Factor**	1.01
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	24DU-UEN	**Rated Horsepower**	131
Displacement (liters)	2.4		
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**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4776	**Equivalent Test Weight (pounds)**	5250
GVWR (lbs)	6063	**N/V Ratio**	41
Axle Ratio	3.43		
Transmission Type	Automatic	**# of Transmission Gears**	1
Transmission Lockup	No	**Creeper Gear**	No

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	41.575	0.20266	0.023401	0	0	0.0234	14.7
US06	41.575	0.20266	0.023401	0	0	0.0234	N/A

Emission Control Device Comments Revised the Odometer Correction Factor to 1.01 from 1.02.

Manufacturer Test Vehicle Comments Revised the value for A(lbf), B(lbf/mph) and C(lbf/mph) of Set Coefficients. N/V ratio is calculated by axle ratio between engine and differential gear.

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071416**	**Test Procedure**	**81 - Charge Depleting UDDS**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	07/29/2021	**Fuel**	N/A
Fuel Batch ID	MOKZ09	**Fuel Calibration Number**	9211
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2699	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	240	**Recharge Event Energy (kiloWatt-hours)**	19.9019
Charge Depleting Range (Calculated miles)	56.234	**Charge Depleting Range (Actual miles)**	56.234
Charge Depleting Range Highway (Calculated miles)	--	**Derived 5-Cycle Coefficient Model Year**	2017
All Electric Range Unadjusted (miles)	56.077	**Equivalent All Electric Range (miles)**	56.234
Number of Charge Depleting Bags/Phases Conducted	10	**Transition Bag/Phase Number**	8

Charge Depleting Bag/Phase #1

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.451
Average System Voltage	388.3
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.53
Drive Trace Energy Economy Rating	0.54
Drive Trace Inertia Work Ratio Rating	0.83
Integrated Amp-hours	6.048
Manufacturer Fuel Economy	95.235
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	2.316
System Start State of Charge Watt-hours	0
Total Hydrocarbon	0

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.449
Average System Voltage	376.6
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.68
Drive Trace Energy Economy Rating	0.86
Drive Trace Inertia Work Ratio Rating	1.12
Integrated Amp-hours	11.623
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	4.375
System Start State of Charge Watt-hours	2.316
Total Hydrocarbon	0

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.454
Average System Voltage	366
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.43
Drive Trace Energy Economy Rating	0.26
Drive Trace Inertia Work Ratio Rating	0.68
Integrated Amp-hours	17.068
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	6.326
System Start State of Charge Watt-hours	4.375
Total Hydrocarbon	0

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.453
Average System Voltage	356.9
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.29
Drive Trace Energy Economy Rating	0.47
Drive Trace Inertia Work Ratio Rating	0.69
Integrated Amp-hours	22.609
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	8.261
System Start State of Charge Watt-hours	6.326
Total Hydrocarbon	0

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.456
Average System Voltage	349.4
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.14
Drive Trace Energy Economy Rating	0.53
Drive Trace Inertia Work Ratio Rating	0.23
Integrated Amp-hours	28.604
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	10.311
System Start State of Charge Watt-hours	8.261
Total Hydrocarbon	0

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.452
Average System Voltage	344.3
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.76
Drive Trace Energy Economy Rating	1.14
Drive Trace Inertia Work Ratio Rating	1.24
Integrated Amp-hours	34.34
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	12.236
System Start State of Charge Watt-hours	10.311
Total Hydrocarbon	0

Charge Depleting Bag/Phase #7

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.447
Average System Voltage	339.8
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0
Drive Trace Energy Economy Rating	-0.18
Drive Trace Inertia Work Ratio Rating	-0.02
Integrated Amp-hours	40.52
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	14.286
System Start State of Charge Watt-hours	12.236
Total Hydrocarbon	0

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.457
Average System Voltage	337.3
CH4 - Methane	0.00112
Carbon Monoxide	0.03025
Carbon dioxide	121
Carbon-Related Exhaust Emissions	121
Drive Trace Absolute Speed Change Rating	0.23
Drive Trace Energy Economy Rating	0.23
Drive Trace Inertia Work Ratio Rating	0.19
Integrated Amp-hours	43.897
Manufacturer Fuel Economy	72.8
Nitrogen Oxide	0.04448
Non-methane Hydrocarbon	0.02082
Non-methane organic gases	0.02165
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	15.361
System Start State of Charge Watt-hours	14.286
Total Hydrocarbon	0.02185

Charge Depleting Bag/Phase #9

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.446
Average System Voltage	339.1
CH4 - Methane	0.00046
Carbon Monoxide	0.01892
Carbon dioxide	222
Carbon-Related Exhaust Emissions	222
Drive Trace Absolute Speed Change Rating	0.89
Drive Trace Energy Economy Rating	0.81
Drive Trace Inertia Work Ratio Rating	1.23
Integrated Amp-hours	43.867
Manufacturer Fuel Economy	39.7
Nitrogen Oxide	0.00402
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	15.296
System Start State of Charge Watt-hours	15.361
Total Hydrocarbon	0.00012

Charge Depleting Bag/Phase #10

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.443
Average System Voltage	339.3
CH4 - Methane	0.00031
Carbon Monoxide	0.00761
Carbon dioxide	240
Carbon-Related Exhaust Emissions	240
Drive Trace Absolute Speed Change Rating	0.34
Drive Trace Energy Economy Rating	0.65
Drive Trace Inertia Work Ratio Rating	0.52
Integrated Amp-hours	43.81
Manufacturer Fuel Economy	36.8
Nitrogen Oxide	0.00294
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	15.221
System Start State of Charge Watt-hours	15.296
Total Hydrocarbon	0.00007

Manufacturer Test Comments 4K-MILE(04) CD UDDS FUEL:Tier2 ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.04 CD Operation/Normal Mode CD Range & EAER are calculated by "PHEV fuel economy calculator v26f".

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071417**	**Test Procedure**	**84 - Charge Depleting Highway**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	07/30/2021	**Fuel**	N/A
Fuel Batch ID	MOKZ09	**Fuel Calibration Number**	9211
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Development Engineering Office		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2773	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	240	**Recharge Event Energy (kiloWatt-hours)**	19.4949
Charge Depleting Range (Calculated miles)	51.269	**Charge Depleting Range (Actual miles)**	51.269
Charge Depleting Range Highway (Calculated miles)	--	**Derived 5-Cycle Coefficient Model Year**	2017
All Electric Range Unadjusted (miles)	50.721	**Equivalent All Electric Range (miles)**	51.269
Number of Charge Depleting Bags/Phases Conducted	6	**Transition Bag/Phase Number**	5

Charge Depleting Bag/Phase #1

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.254
Average System Voltage	380.7
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.5
Drive Trace Energy Economy Rating	0.14
Drive Trace Inertia Work Ratio Rating	2
Integrated Amp-hours	8.627
Manufacturer Fuel Economy	88.64
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	3.261
System Start State of Charge Watt-hours	0
Total Hydrocarbon	0

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.256
Average System Voltage	363
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.2
Drive Trace Energy Economy Rating	0.39
Drive Trace Inertia Work Ratio Rating	1.5
Integrated Amp-hours	16.887
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	6.233
System Start State of Charge Watt-hours	3.261
Total Hydrocarbon	0

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.255
Average System Voltage	349
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	3.77
Drive Trace Energy Economy Rating	-0.04
Drive Trace Inertia Work Ratio Rating	0.24
Integrated Amp-hours	25.47
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	9.2
System Start State of Charge Watt-hours	6.233
Total Hydrocarbon	0

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.255
Average System Voltage	338.2
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.44
Drive Trace Energy Economy Rating	0.18
Drive Trace Inertia Work Ratio Rating	2.18
Integrated Amp-hours	34.598
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	12.255
System Start State of Charge Watt-hours	9.2
Total Hydrocarbon	0

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.249
Average System Voltage	329.9
CH4 - Methane	0.00052
Carbon Monoxide	0.01606
Carbon dioxide	7
Carbon-Related Exhaust Emissions	7
Drive Trace Absolute Speed Change Rating	3.41
Drive Trace Energy Economy Rating	0.53
Drive Trace Inertia Work Ratio Rating	4.13
Integrated Amp-hours	43.847
Manufacturer Fuel Economy	1247.3
Nitrogen Oxide	0.00123
Non-methane Hydrocarbon	0.01257
Non-methane organic gases	0.01295
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	15.264
System Start State of Charge Watt-hours	12.255
Total Hydrocarbon	0.01305

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.252
Average System Voltage	338.2
CH4 - Methane	0.00106
Carbon Monoxide	0.11034
Carbon dioxide	253
Carbon-Related Exhaust Emissions	253
Drive Trace Absolute Speed Change Rating	1.1
Drive Trace Energy Economy Rating	-0.09
Drive Trace Inertia Work Ratio Rating	1.68
Integrated Amp-hours	43.255
Manufacturer Fuel Economy	34.8
Nitrogen Oxide	0.00063
Non-methane Hydrocarbon	0.00964
Non-methane organic gases	0.00993
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	15.022
System Start State of Charge Watt-hours	15.264
Total Hydrocarbon	0.01062

Manufacturer Test Comments 4K-MILE(04) CD HFEDS FUEL:Tier2 ETW:5250 LBS 4WD 1AT(D) TIRE:P255/45R20 NMOG/NMHC=1.03 CD Operation/Normal Mode CD Range & EAER are calculated by "PHEV fuel economy calculator v26f".

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Emission Data Vehicle Information

Vehicle ID / Configuration	EB23-DH13 / 3	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PMTXT02.4H3M	**Original Evaporative/Refueling Family**	PMTXR0174A2M
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	MITSUBISHI	**Represented Test Vehicle Model**	Outlander PHEV

Leak Family Details

Leak Family Identifier	A2M	**Leak Family Name**	PMTXR0174A2M-A2M

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	5	**Odometer Correction Factor**	1.02
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	24DU-UEN	**Rated Horsepower**	131
Displacement (liters)	2.4		
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**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4617	**Equivalent Test Weight (pounds)**	5000
GVWR (lbs)	6063	**N/V Ratio**	41.5
Axle Ratio	3.43		
Transmission Type	Automatic	**# of Transmission Gears**	1
Transmission Lockup	No	**Creeper Gear**	No

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	35.609	0.14323	0.023926	-0.09	-0.0753	0.02493	13.7

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Emission Control Device Comments Revised the Odometer Correction Factor to 1.02 from 1.01.

Manufacturer Test Vehicle Comments N/V ratio is calculated by axle ratio between engine and differential gear.

Test #	**PMTX10071635**	**Test Procedure**	**27 - California fuel 2-day evap**
Exhaust Test # for this Evap Test	PMTX10071634	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/09/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2214
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	2906	**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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2785	--

Manufacturer Test Comments 4K-MILE(03) 2DAY-EVAP FUEL:LEVIII ETW:5000 LBS 4WD 1AT TIRE:P235/60R18

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	0.2785	0	0.278	0.500	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2785	0	0.278	0.500	Pass

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071750**	**Test Procedure**	**38 - CA fuel 3-day evap.**
Exhaust Test # for this Evap Test	PMTX10071748	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/23/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2214
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	3063	**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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3391	--

Manufacturer Test Comments 4K-MILE(03) 3DAY-EVAP FUEL:LEVIII ETW:5000 LBS 4WD 1AT TIRE:P235/60R18

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	0.3391	0	0.339	0.500	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.3391	0	0.339	0.500	Pass

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071436**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	PMTX10071435	**Test Fuel Type**	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/18/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ13	**Fuel Calibration Number**	3211
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	2852	**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)
HC (Hydrocarbon for Running Loss and ORVR)	0.0834	--

Manufacturer Test Comments 4K-MILE(03) ORVR-EVAP FUEL:Tier3 ETW:5000 LBS 4WD 1AT TIRE:P235/60R18

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.083	0	0.08	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.083	0	0.08	0.20	Pass

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Test #	**PMTX10071749**	**Test Procedure**	**37 - California Fuel Running Loss**
Exhaust Test # for this Evap Test	PMTX10071748	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/22/2021	**Fuel**	Gasoline
Fuel Batch ID	MOKZ12	**Fuel Calibration Number**	2214
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	3047	**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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0054	--

Manufacturer Test Comments 4K-MILE(03) 3DAY-EVAP FUEL:LEVIII ETW:5000 LBS 4WD 1AT TIRE:P235/60R18

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	0.005	0.003	0.01	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.005	0.003	0.01	0.01	Pass

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Fuel Properties

Fuel Batch ID	**MOKZ09**	**Fuel Calibration Number**	**9211**
Test Fuel Type	61 - Tier 2 Cert Gasoline	**Fuel Batch Calibration Date**	09/17/2020
Fuel Batch Calibration Effective Date	03/08/2021	**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)	--	**Fuel Specific Gravity**	0.743
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18594
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**	**2213**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	04/14/2020
Fuel Batch Calibration Effective Date	03/24/2021	**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)	--	**Fuel Specific Gravity**	0.751
Fuel Ethanol Volume Percent (%)	9.6	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17871
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	**Weight Fraction CO2**	--

Fuel Batch ID	**MOKZ12**	**Fuel Calibration Number**	**2214**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	05/14/2021
Fuel Batch Calibration Effective Date	08/16/2021	**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)	--	**Fuel Specific Gravity**	0.74
Fuel Ethanol Volume Percent (%)	9.8	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18592
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**	**3211**
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	05/20/2020
Fuel Batch Calibration Effective Date	01/08/2021	**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	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.739
Fuel Ethanol Volume Percent (%)	9.8	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18556
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**	**6211**
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	**Fuel Batch Calibration Date**	09/23/2016
Fuel Batch Calibration Effective Date	03/15/2021	**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)	--	**Fuel Specific Gravity**	0.741
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17769
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.822	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	California LEV-IV SULEV30
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	METHANE	--	--	--	--	--	--	0.0017	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.09	1.0
150,000 miles	HCHO	--	--	--	--	--	--	0.00000	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0032	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.001

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	California LEV-IV SULEV30
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	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.036
150,000 miles	NOX	--	--	--	--	--	--	0.0032	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M
Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 Bin 30
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	--	--	--	--	--	1.395	0	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0017	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.09	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0.09	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.004
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0032	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	California LEV-IV SULEV30
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	--	--	--	--	--	--	--	1.0
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008
4,000 miles	NMOG	--	--	1.10	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	1	--	0.060
4,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M
Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 Bin 30
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	--	--	--	--	--	1.151	0	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0032	999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	California LEV-IV SULEV30
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	1.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0032	999.999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	California LEV-IV SULEV30
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	12.5

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M
Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 Bin 30
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	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.5

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	California LEV-IV SULEV30
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	--	--	--	--	--	1.151	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0032	999.999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 Bin 30
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	--	--	--	--	--	--	0.0002	0.006

Evaporative/Refueling Standards

Evaporative/Refueling Family	TMTXR0174A4M	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

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

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Evaporative/Refueling Family	TMTXR0174A4M	**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	--	0.01	0.003

Evaporative/Refueling Family	TMTXR0174A4M	**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	--	0.500	0

Evaporative/Refueling Family	TMTXR0174A4M	**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	--	0.500	0

Evaporative/Refueling Family	TMTXR0174A4M	**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	0.003

Evaporative/Refueling Family	TMTXR0174A4M	**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	--	0.500	0

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M

Evaporative/Refueling Family	TMTXR0174A4M	**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	--	0.500	0

Evaporative/Refueling Family	TMTXR0174A4M	**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	--	0.20	0

Certification Summary Information Report

Test Group	TMTXT02.4H3Y	Evaporative/Refueling Family	TMTXR0174A4M

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	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M
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	TMTXT02.4H3Y	**Evaporative/Refueling Family**	TMTXR0174A4M
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.

09.00.00 OBD SYSTEM DESCRIPTION

09.01.00 Statement

Refer to Common Application.

09.02.00 Catalyst Information

Refer to Durability Group Description in Common Application Section 02.02.00.

09.03.00 OBD II System

For EPA,
Complete California ARB OBD application is uploaded to EV-CIS in accordance with CD-14-19.
File name: CBI_TMTXT02.4H3Y_APP_OBD_R00.pdf

For CARB,
OBD System Description was submiitted to E-File as an OBD application.
File name: CBI_MITS_Specific_2026_TMTXT02.4H3Y_A-P

Issue Date : 08-28-2025
Revised Date :

10.00.00 DESCRIPTION OF ALTERNATIVE-FUELED VEHICLES

Refer to Common Application.

Issue Date : 08-28-2025
Revised Date :

11.00.00 AECD DESCRIPTION

Refer to Common Application.

Issue Date : 08-28-2025
Revised Date :

12.00.00 DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE AND TEST PARAMETERS

12.01.00 Vehicle Parameters

Test Group : TMTXT02.4H3Y
Durability Group : TMTXHHVGNDBB
Model : ROGUE PLUG-IN HYBRID

(1) Vehicle Identification

Vehicle Classification	LDT3
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	24DU-UEN
Number of Valves per Cylinder	4
Engine Displacement	2.4 liter (144.0 CID)
Sales Area	50-States
Transmission and Overdrive	A1
SIL	N/A
Tire Size	P255/45R20
N/V Ratios Front Rear	41.0 97.5
ETW	5000 lbs
Dynamometer RLHP Target Coefficients	Refer to Section 12.05.00
Fuel Tank Capacity(100%)	14.8 gallon

Issue Date : 08-21-2025
Revised Date :

12.01.00 Vehicle Parameters

(2) Propulsion System

1) Motor

	Front Motor	Rear Motor
Type	DC Permanent magnet, brushless	
Mecanical Power (Peak)	85 kW 115.6 hp	100 kW 136 hp
Rated Power (Continuous)	40 kW 54.4 hp	40 kW 54.4 hp
RPM of Mechanical Power(Peak)	3500-7000	5000-5500
Maximum Torque	255 Nm	195 Nm

2) Traction Inverter

Type	DC/AC 3 phase

3) Regenerative Braking

Type	Electrical Regenerative Brake
Braking source	Front and Rear Wheels
Driver controlled regenerative braking	Releasing the accelerator pedal or pressing the brake pedal.

4) Charging system

On-Board Charger capability	Level 1 Level 2	240 V / 15 A 120 V / 12 A
Maximum allowable DC fast charge capability		N/A
Vehicle connector speficiation	AC DC	Type 1 N/A
Charging cord included in the vehicle	Length AC Level 1 minimum amperage capability AC Level 2 minimum amperage capability	20.8 ft (including control module) 12 A N/A

Issue Date : 08-21-2025
Revised Date :

12.01.00 Vehicle Parameters

(2) Energy storage system

1) Traction battery

Type Li-ion battery cathode type Li-ion battery anode type	Li-ion NMC(Mixed metal oxide(Ni, Mn, Co) based) C(Graphite based)
Nominal Battery Capacity	56.27 Ah
Battery voltage	349 V
Number of battery cells	96
Battery weight	2.01 lbs per cell
Battery Specific Energy Battery capacity Battery system weight	110 Wh/kg 20 kWh 187.3 kg
Battery Charging Capacity	20 kWh
Self-discharge Information	Expected maximum: 4.43% in 46 days
Accessories which draw energy from the vehicle	A/C, AC Inverter, DC-DC Converter
Other Unique Features	N/A
Definition of End-of-life	The main drive lithium-ion has a limited service life, and when its charging capacity falls, owners should bring their vehicle to a certified PHEV dealer for inspection and possible battery replacement.
Description of Battery Disposal Plan	Consult with a certified PHEV dealer when the main drive lithium-ion battery is disposed or recycled. Never attempt to use the main drive lithium-ion battery for any other purpose.
Battery Manufacturer/Construction(s)	AESC Japan Ltd.
Minimum battery voltage for safe operation	240 V
Battery thermal management	Active-refrigerant cooled

12.01.00 Vehicle Parameters

(3) Climate control system

-Description
The climate control system using HFO-1234yf as refrigerants applies electric motor-driven compressor and makes cool a cabin and a hybrid battery pack.
The system uses engine waste heat-water and makes warm the cabin.

-Logic
Climate control system controls fan speed, ventilation mode, and outlet temperature automatically depending on selected temperature.

(4) Other system

1) Thermal Management System

Monitoring temperature of high-voltage battery, the hybrid battery pack is cooled using climate control system when being necessary. And the pack is warmed continuing charging and discharging when being necessary during the Plug-in.

2) Electric Heat Pump

The vehicle is equipped with an electric heat pump system.

-Description
The water coolant is heated by the refrigerant discharged from an electric compressor.
And then the warm water coolant warms the cabin through a heater core in HVAC.

3) Fuel-Fired Heater

The vehicle is not equipped with a fuel-fired heating system.

12.02.00 Test Parameters

12.02.01 Engine Starting Procedure for Plug-in Hybrid Electric Vehicle

- Close door .

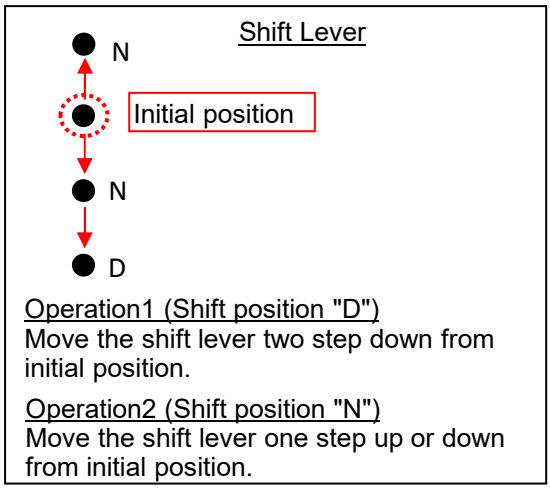
- Press the POWER Switch once without pressing the Brake Pedal down, and make certain that all warning light are functioning properly before starting the vehicle system.
  If the Engine Switch is pressed while the Brake Pedal is pressed down, vehicle system starts operating.

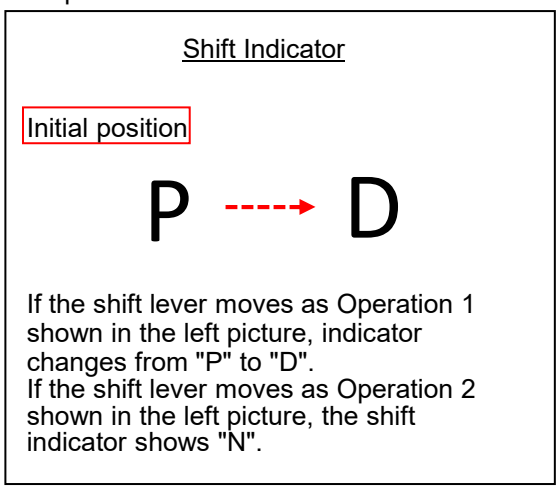
- Press and hold the Brake Pedal down and press the POWER Switch once more, then READY indicator is illuminated and the vehicle propulsion system is active.
  And release your foot from the Brake Pedal.
  READY is the same meaning of "Engine start" in case of conventional gasoline vehicle that can be running with "D" shift position.

- Press and hold the Brake Pedal down and move the shift lever from initial position to "D" position until shift indicator changes from "P" to "D"(about one or two seconds) when UDDS test start.
  Please see the picture below that shows how to change shift position from "P" to D".

- Because of AT transmission, shift schedules are not necessary.

Picture: How to change shift position from 'P' to 'D'





Issue Date : 08-21-2025
Revised Date :

12.02.00 Test Parameters

12.02.02 Shift Schedule

Not Applicable

12.02.03 Semi-Automatic Transmission Survey and Selectable Shift Mode

Not Applicable

12.02.04 Driver Selectable Mode for Exhaust Emission Test and Fuel Economy Test

For Exhaust Emission Test:

Test Cycle	PHEV Mode	Driver Selectable Mode	Available PHEV Driver Selectable Modes
FTP/50F	Charge Sustaining	Power	Normal/Eco/Snow/Mud/Gravel/Tarmac/Power, Regenerative Braking Level Selector, E-pedal
HWY	Charge Increasing	Normal w/Charge	
US06	Charge Sustaining	Normal	
SC03	Charge Increasing	Normal w/Charge	
Cold CO	Charge Sustaining	Power	

For Limus and Fuel Economy Test:

Test Cycle	PHEV Mode	Driver Selectable Mode	Available PHEV Driver Selectable Modes
FTP	Charge Sustaining	Normal	Normal/Eco/Snow/Mud/Gravel/Tarmac/Power, Regenerative Braking Level Selector, E-pedal
HWY	Charge Sustaining	Normal	
US06	Charge Sustaining	Normal	
SC03	Charge Sustaining	Normal	
Cold CO	Charge Sustaining	Normal	

12.03.00 Evaporative Testing Parameters

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(1) Test Vehicle

Model 2023MY Outlander PHEV

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	PMTXT02.4H3M
Evap. Family	PMTXR0174A2M
Engine and T/M	2.4 Liter DOHC4, A1

(2) FTTP and Pressure Profile

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

(3) Ambient Conditions

List for the Ambient Temp. Attachment 5

	Start of Test	End of Test
Ambient Temp. (deg. F)	107.1	116.4
Track Surface Temp. (deg. F)	148.1	146.3

Ambient Condition Profile Attachment 6

(4) Corrected FTTP Profile

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

Corrected Fuel / Vapor Temp. Profile	Attachment 7
Corrected Fuel Temp. List	Attachment 1

12.03.02 Canister Loading Procedure

Loading : 70g butane, speed is 10gal./min. (This is simulated refueling condition.)
Purge : 300BV (660L), speed is 22.7L/min.

Issue Date : 08-21-2025
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	105.3	108.1	105.8	108.9	105.1	105.1
30	105.4	108.5	106.0	108.9	105.4	105.3
60	105.4	108.5	106.0	94.5	105.4	105.3
90	105.4	108.7	106.0	71.2	105.4	105.3
120	105.6	108.5	105.6	54.3	105.4	104.9
150	106.0	108.7	105.6	43.8	105.7	104.9
180	106.0	108.5	105.4	42.4	105.6	104.7
210	106.0	108.5	105.4	45.3	105.6	104.7
240	106.3	108.5	105.4	47.8	105.8	104.7
270	106.5	108.9	105.4	49.3	106.1	104.7
300	106.5	108.7	105.4	50.3	106.0	104.7
330	106.7	108.7	105.3	49.8	106.1	104.5
360	106.9	108.7	105.4	50.8	106.2	104.7
390	107.1	108.7	105.3	51.8	106.3	104.5
420	107.2	108.7	105.4	52.8	106.3	104.7
450	107.2	108.5	105.4	53.8	106.3	104.7
480	107.4	108.7	105.6	53.8	106.4	104.9
510	107.6	108.7	105.6	54.8	106.5	104.9
540	107.6	108.7	105.8	55.8	106.5	105.1
570	107.6	108.7	106.0	57.2	106.5	105.3
600	107.6	108.7	106.0	57.2	106.5	105.3
630	107.8	108.9	106.2	58.3	106.7	105.4
660	107.8	108.9	106.2	59.3	106.7	105.4
690	107.6	108.9	106.2	60.3	106.6	105.4
720	108.0	109.0	106.3	60.3	106.9	105.6
750	108.1	109.0	106.5	61.2	107.0	105.8
780	108.1	109.4	106.5	61.2	107.2	105.8
810	108.1	109.2	106.3	62.2	107.1	105.6
840	108.1	109.4	106.5	62.7	107.2	105.8
870	108.3	109.4	106.5	63.2	107.2	105.8
900	108.3	109.6	106.7	63.7	107.3	106.0
930	108.5	109.4	106.7	64.7	107.3	106.0
960	108.5	109.2	106.7	64.7	107.2	106.0
990	108.5	109.4	106.9	65.7	107.3	106.2
1020	108.5	109.4	106.7	65.7	107.3	106.0
1050	108.7	109.6	107.1	66.7	107.5	106.3
1080	108.7	109.8	107.2	66.7	107.6	106.5
1110	108.9	109.9	107.2	67.2	107.8	106.5
1140	108.7	109.8	107.2	68.2	107.6	106.5
1170	109.0	109.8	107.2	68.2	107.8	106.5
1200	108.9	109.8	107.2	69.2	107.7	106.5
1230	109.0	109.9	107.2	69.2	107.9	106.5
1260	109.0	110.1	107.2	70.2	108.0	106.5

Issue Date : 08-21-2025
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	109.0	110.1	107.2	70.2	108.0	106.5
1320	109.2	110.3	107.4	70.7	108.1	106.7
1350	109.2	110.1	107.2	71.2	108.1	106.5
1380	109.2	110.3	107.4	71.2	108.1	106.7
1410	109.4	110.3	107.6	72.2	108.2	106.9
1440	109.6	110.5	108.0	72.2	108.4	107.2
1470	109.9	110.7	108.1	73.7	108.7	107.4
1500	109.6	110.5	107.8	73.1	108.4	107.1
1530	109.8	110.7	108.0	73.1	108.6	107.2
1560	109.8	110.7	108.1	74.2	108.6	107.4
1590	109.9	110.8	108.1	74.2	108.8	107.4
1620	109.9	110.8	108.1	75.2	108.8	107.4
1650	110.1	110.8	108.3	75.2	108.9	107.6
1680	109.9	110.8	108.1	76.2	108.8	107.4
1710	110.1	110.8	108.3	76.2	108.9	107.6
1740	110.3	110.8	108.3	76.2	109.0	107.6
1770	110.3	111.0	108.5	76.6	109.0	107.8
1800	110.3	111.0	108.5	77.1	109.0	107.8
1830	110.3	110.8	108.7	77.6	109.0	108.0
1860	110.5	111.2	108.7	77.6	109.2	108.0
1890	110.5	111.2	108.9	78.1	109.2	108.1
1920	110.5	111.2	108.7	78.6	109.2	108.0
1950	110.7	111.4	109.0	79.1	109.4	108.3
1980	110.7	111.4	108.9	79.6	109.4	108.1
2010	110.8	111.9	109.2	79.6	109.8	108.5
2040	111.0	112.1	109.6	77.1	109.9	108.9
2070	111.0	112.1	109.6	68.2	109.9	108.9
2100	111.2	112.1	109.4	57.2	110.0	108.7
2130	111.2	112.3	109.6	45.8	110.1	108.9
2160	111.4	112.5	109.6	41.9	110.3	108.9
2190	111.4	112.3	109.8	42.9	110.2	109.0
2220	111.6	112.5	109.9	44.4	110.4	109.2
2250	111.6	112.8	110.1	45.3	110.6	109.4
2280	111.7	112.6	110.3	45.3	110.6	109.6
2310	111.6	112.8	110.1	47.3	110.6	109.4
2340	111.7	112.8	110.3	48.3	110.7	109.6
2370	111.7	112.8	110.1	49.3	110.7	109.4
2400	111.7	113.0	110.3	50.3	110.8	109.6
2430	112.1	113.2	110.3	51.3	111.0	109.6
2460	111.9	113.0	110.1	51.3	110.8	109.4
2490	111.7	112.8	110.1	51.8	110.7	109.4
2520	111.9	113.2	110.5	52.3	110.9	109.8
2550	112.1	113.2	110.5	53.3	111.0	109.8

Issue Date : 08-21-2025
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	112.5	113.5	110.7	54.3	111.4	109.9
2610	112.5	113.5	110.7	54.3	111.4	109.9
2640	112.5	113.5	110.5	55.3	111.4	109.8
2670	112.6	113.5	110.7	55.3	111.5	109.9
2700	112.6	113.5	110.7	56.3	111.5	109.9
2730	112.8	113.7	110.8	56.8	111.7	110.1
2760	112.8	113.5	110.8	57.8	111.6	110.1
2790	112.8	113.7	110.8	57.8	111.7	110.1
2820	112.8	113.5	110.8	58.8	111.6	110.1
2850	113.0	113.9	111.0	58.8	111.8	110.3
2880	113.0	113.7	111.0	59.7	111.7	110.3
2910	113.2	113.9	111.2	60.3	111.9	110.5
2940	112.8	113.7	111.0	60.7	111.7	110.3
2970	113.0	113.9	111.2	60.7	111.8	110.5
3000	113.0	114.1	111.2	61.2	111.9	110.5
3030	113.2	114.1	111.4	60.7	112.0	110.7
3060	113.2	114.1	111.4	61.2	112.0	110.7
3090	113.0	113.9	111.4	62.2	111.8	110.7
3120	113.2	113.9	111.4	62.2	111.9	110.7
3150	113.2	113.9	111.4	62.2	111.9	110.7
3180	113.2	114.1	111.6	61.7	112.0	110.8
3210	113.4	114.1	111.4	63.2	112.1	110.7
3240	113.4	114.3	111.6	63.2	112.2	110.8
3270	113.4	114.4	111.7	62.7	112.3	111.0
3300	113.4	114.4	111.6	63.7	112.3	110.8
3330	113.5	114.4	111.7	63.7	112.4	111.0
3360	113.5	114.4	111.6	64.2	112.4	110.8
3390	113.5	114.6	111.7	64.7	112.5	111.0
3420	113.9	114.8	111.9	65.7	112.7	111.2
3450	113.9	114.6	111.9	65.7	112.6	111.2
3480	113.9	114.8	111.7	66.7	112.7	111.0
3510	114.1	115.0	111.9	66.2	112.9	111.2
3540	114.1	115.0	111.9	67.7	112.9	111.2
3570	114.6	115.2	112.1	67.7	113.3	111.4
3600	114.8	115.3	112.3	68.2	113.5	111.6
3630	114.8	115.5	112.3	68.7	113.5	111.6
3660	115.2	115.5	112.5	69.7	113.7	111.7
3690	115.2	116.1	112.6	70.2	114.0	111.9
3720	115.2	115.9	112.6	71.2	113.9	111.9
3750	115.2	115.9	112.8	71.2	113.9	112.1
3780	115.2	116.1	112.8	71.7	114.0	112.1
3810	115.3	116.2	113.0	72.2	114.2	112.3
3840	115.3	116.2	113.0	72.2	114.2	112.3

Issue Date : 08-21-2025
Revised Date :

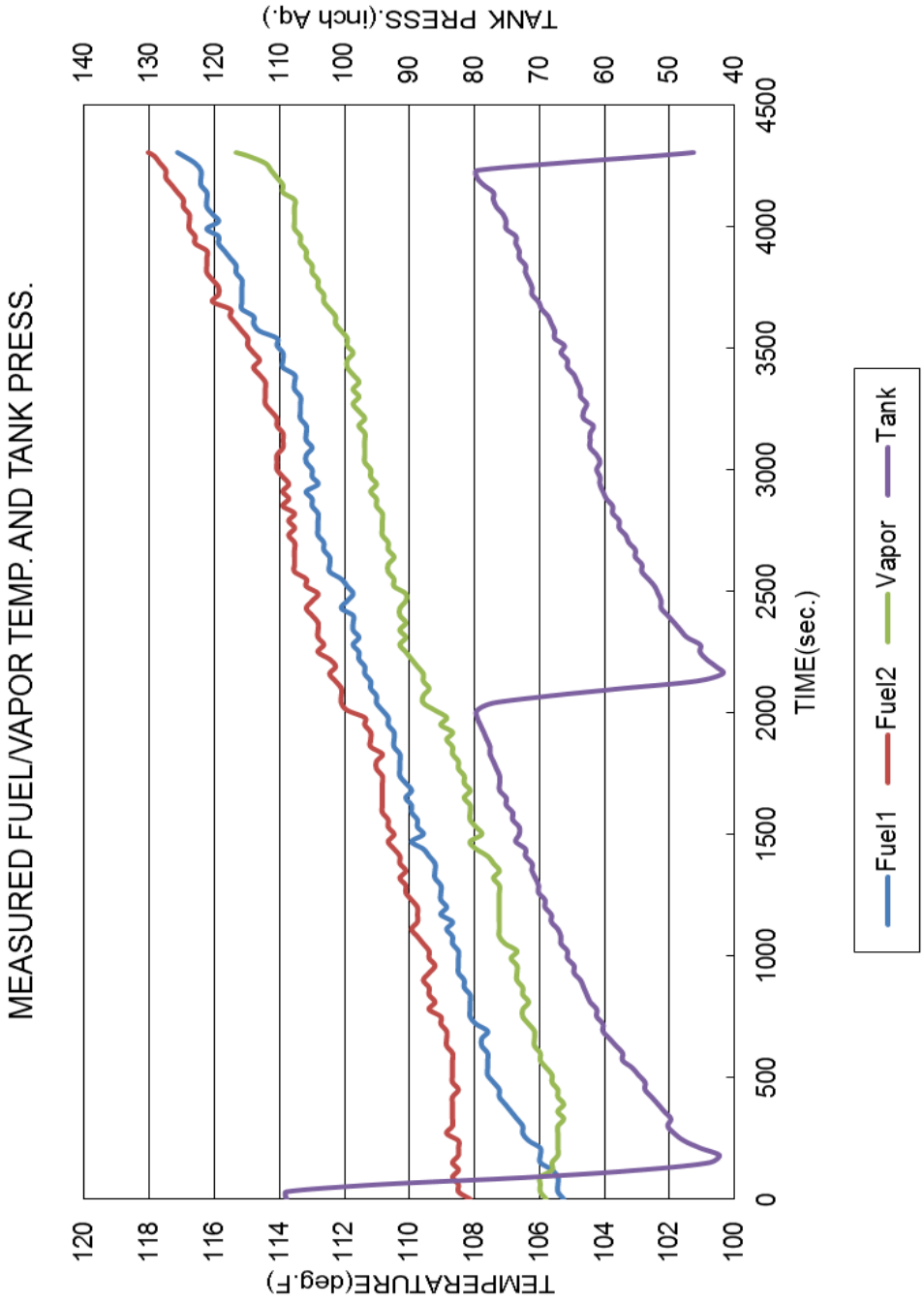
12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(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	115.5	116.2	113.2	73.1	114.3	112.5
3900	115.7	116.2	113.2	73.1	114.4	112.5
3930	115.9	116.6	113.4	73.7	114.6	112.6
3960	115.9	116.6	113.4	73.7	114.6	112.6
3990	116.2	116.8	113.5	75.2	114.9	112.8
4020	115.9	116.8	113.5	75.2	114.7	112.8
4050	116.1	116.8	113.5	75.6	114.8	112.8
4080	116.2	117.0	113.5	76.6	115.0	112.8
4110	116.2	117.0	113.5	77.1	115.0	112.8
4140	116.2	117.1	113.9	77.1	115.1	113.2
4170	116.4	117.3	113.9	78.6	115.3	113.2
4200	116.4	117.5	114.1	79.6	115.3	113.4
4230	116.4	117.5	114.3	79.6	115.3	113.5
4260	116.6	117.7	114.4	67.2	115.5	113.7
4290	117.0	117.9	115.0	52.3	115.8	114.3
4304	117.1	118.0	115.3	46.3	116.0	114.6

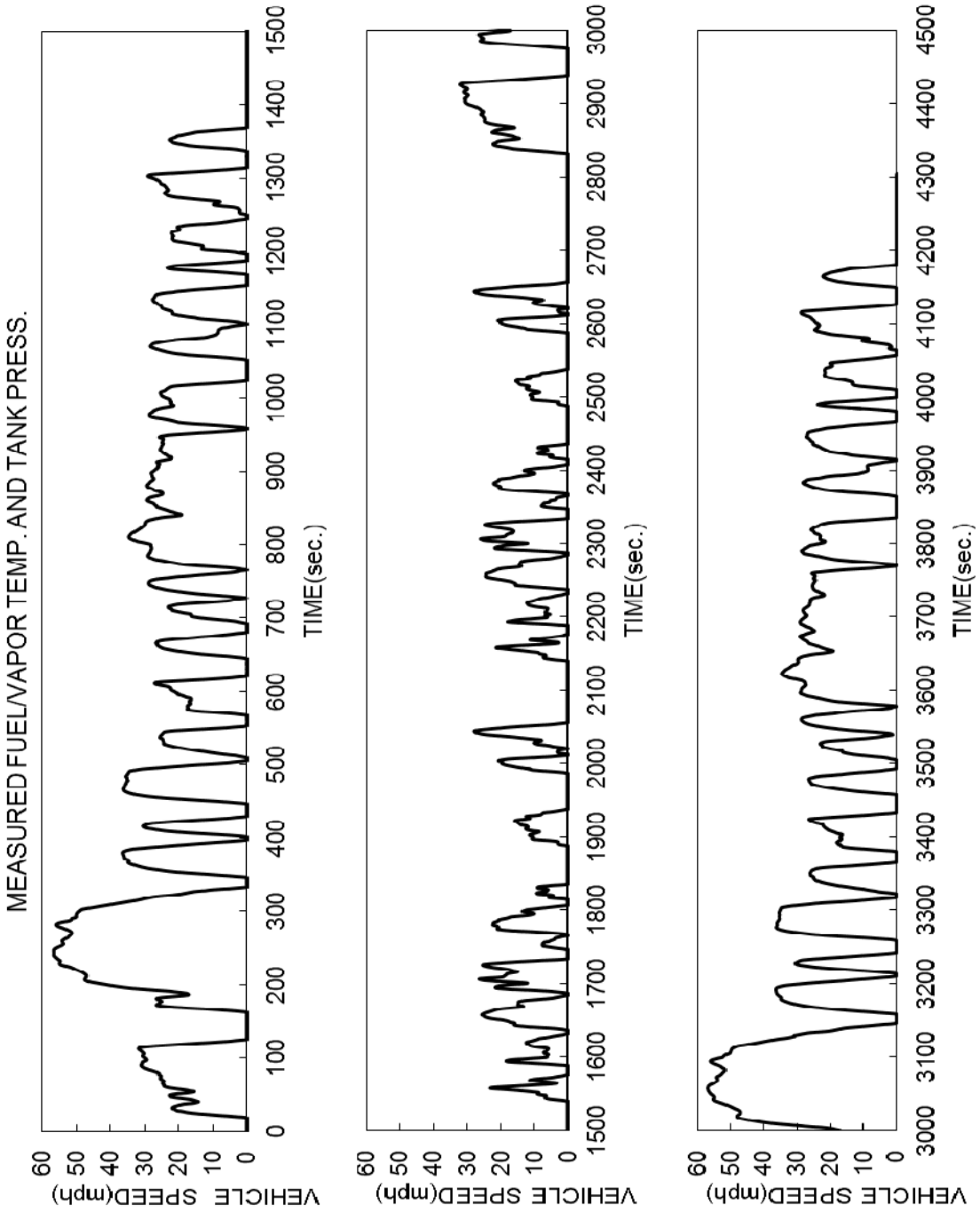
12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 2)



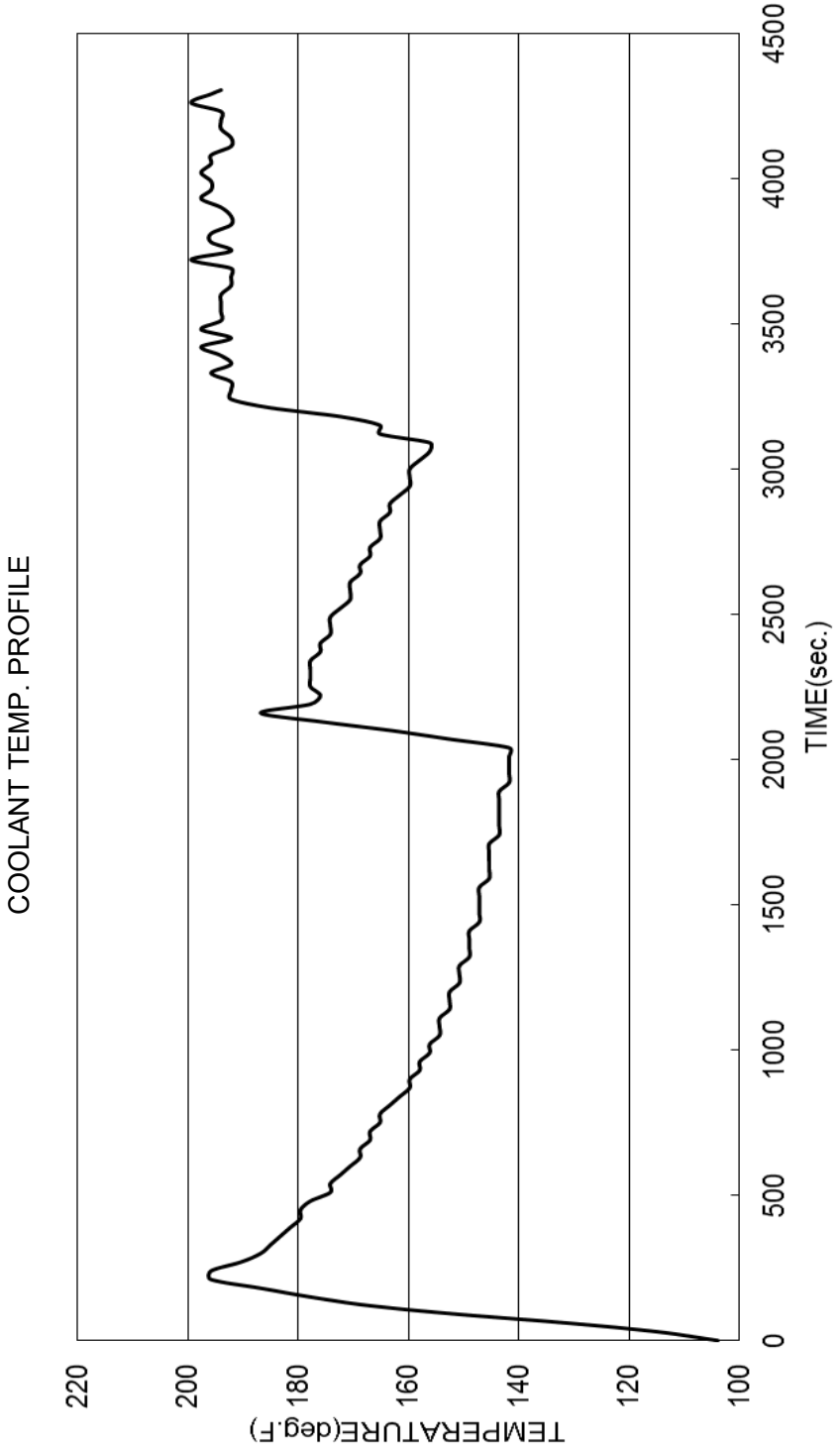
Issue Date : 08-21-2025
Revised Date :

(Attachment 3)



Issue Date : 08-21-2025
Revised Date :

(Attachment 4)



Issue Date : 08-21-2025
Revised Date :

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 5)

FTTP AMBIENT CONDITION

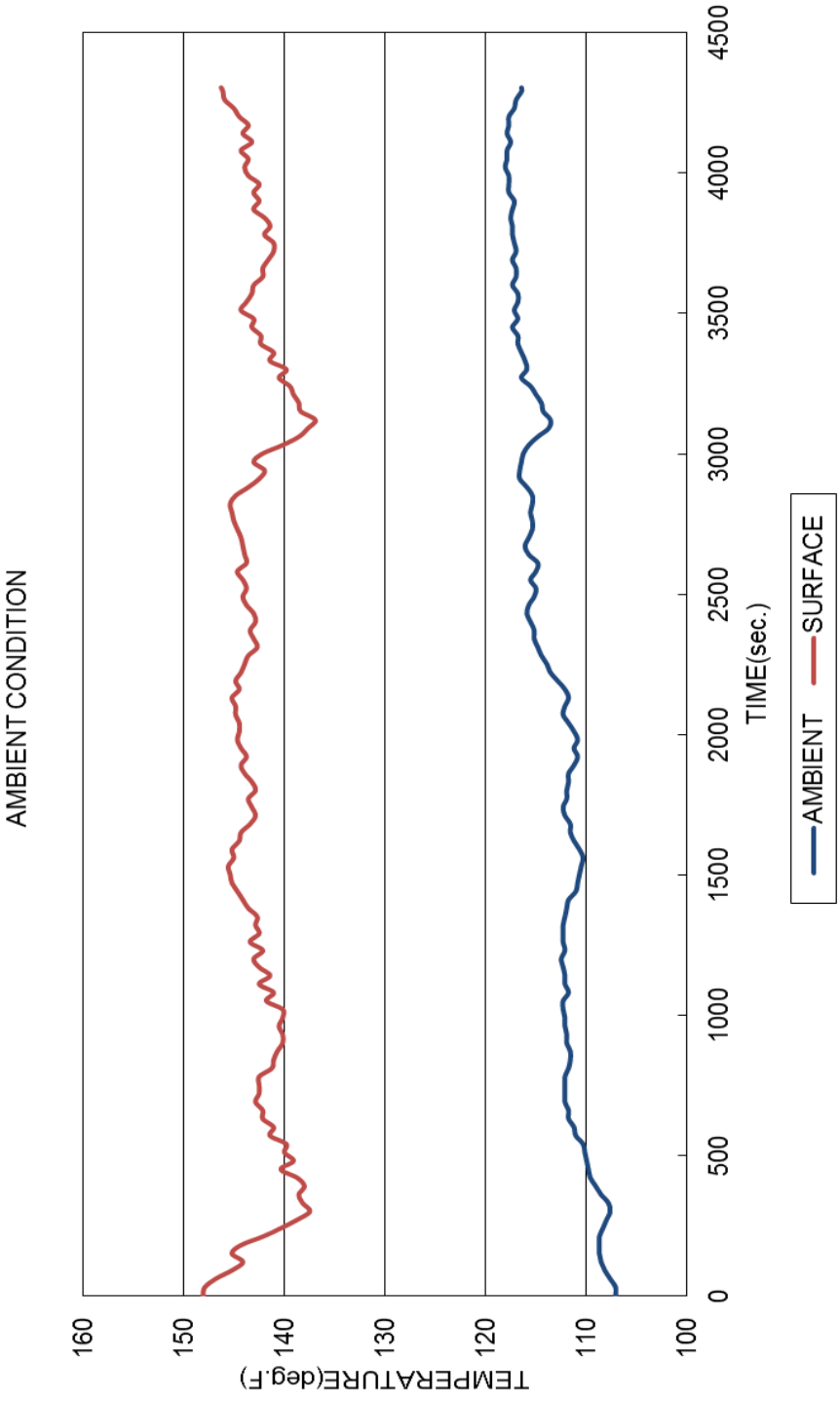
TIME (sec.)	AMBIENT TEMP. (deg. F)	TRACK SURFACE TEMP. (deg. F)
0	107.1	148.1
60	107.6	146.8
120	108.5	144.1
180	108.7	144.3
240	108.3	140.4
300	107.6	137.5
360	108.5	138.6
420	109.6	138.7
480	109.9	139.1
540	110.3	139.8
600	111.2	141.1
660	111.7	142.2
720	112.1	142.5
780	112.1	142.5
840	111.6	141.1
900	111.9	140.2
960	112.1	140.5
1020	112.3	140.2
1080	111.7	141.1
1140	112.1	141.4
1200	112.5	143.1
1260	112.3	143.4
1320	112.3	142.9
1380	111.9	143.6
1440	111.0	144.7
1500	110.7	145.4
1560	110.3	145.0
1620	111.2	144.5
1680	111.6	143.4
1740	112.3	143.2
1800	111.9	142.9
1860	111.7	144.0
1920	110.8	143.8
1980	110.8	144.7
2040	111.7	144.5
2100	112.1	144.9
2160	112.1	144.5

TIME (sec.)	AMBIENT TEMP. (deg. F)	TRACK SURFACE TEMP. (deg. F)
2220	113.5	144.3
2280	114.4	143.6
2340	115.2	143.1
2400	115.5	142.9
2460	115.7	143.8
2520	115.0	143.8
2580	115.0	144.7
2640	115.7	144.0
2700	115.7	144.3
2760	115.3	145.0
2820	115.3	145.4
2880	115.9	143.6
2940	116.6	142.0
3000	116.2	142.2
3060	114.8	138.6
3120	113.5	136.9
3180	114.4	138.6
3240	115.5	139.5
3300	115.9	139.8
3360	116.4	141.1
3420	116.8	142.3
3480	116.8	143.1
3540	116.8	143.8
3600	117.3	143.1
3660	117.0	142.2
3720	117.0	141.1
3780	117.3	142.0
3840	117.5	142.0
3900	117.1	142.5
3960	117.7	142.5
4020	118.0	144.0
4080	117.9	144.3
4140	117.9	144.1
4200	117.7	144.5
4260	117.0	145.9
4304	116.4	146.3

Issue Date : 08-21-2025
Revised Date :

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

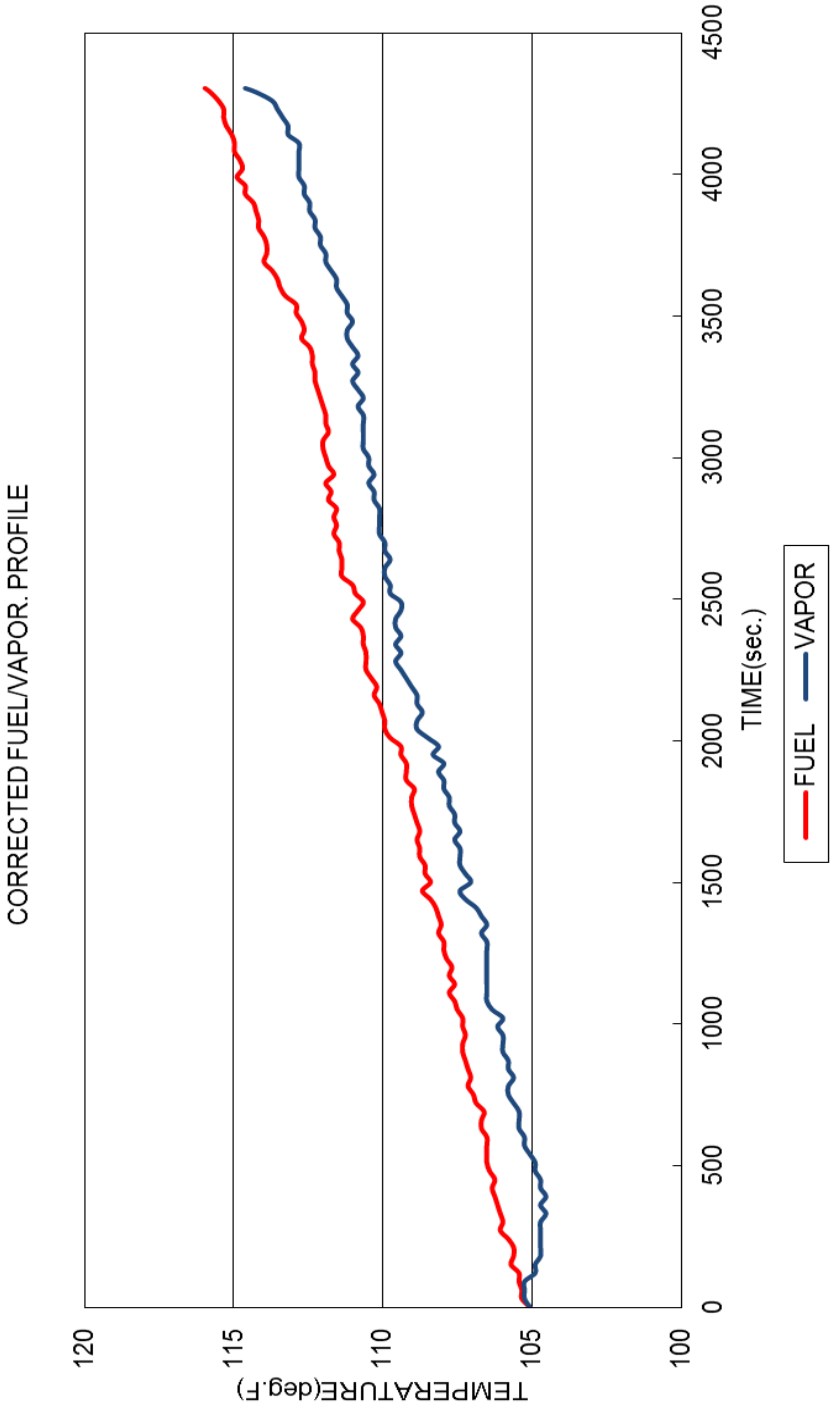
(Attachment 6)



Issue Date : 08-21-2025
Revised Date :

12.03.01 Fuel Tank Temperature Profile (FTTP) Test

(Attachment 7)



Issue Date : 08-21-2025
Revised Date :

12.04.00 Engine Oil Specification

Model: ROGUE PLUG-IN HYBRID

	Certification Test Vehicle Oil	Factory Fill Oil
Brand/Supplier	ENEOS Corporation	ENEOS Corporation
Type of Oil	Non-Synthetic	Non-Synthetic
Service Grade ILSAC	GF-6A	GF-6A
API Category	SP	SP
SAE Viscosity	0W-20	0W-20
FE Improvement Raiting	4.6% 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 : 08-21-2025
Revised Date :

12.05.00 Dynamometer RLHP Information

Vehicle Model	T/M (Drive)	Tire Size	ETW	Target Coefficients			C/D Time
				A	B	C	
ROGUE PLUG-IN HYBRID	A1 (AWD)	P255/45R20	5000	41.575	0.20266	0.023401	22.10

For Cold CO Testing

Vehicle Model	T/M (Drive)	Tire Size	ETW	Target Coefficients			C/D Time
				A	B	C	
ROGUE PLUG-IN HYBRID	A1 (AWD)	P255/45R20	5000	45.733	0.22293	0.025741	20.09

Issue Date : 08-21-2025
Revised Date :

12.06.00 Advanced Technology System Test Modes for Plug-in Hybrid Electric Vehicle

Testing Related Information

1) Charging Procedure

1. Fully apply the parking brake and place the selector lever to “P” (PARK) position.
2. Stop the electric devices such as lamps, air conditioning, etc. and press the power switch to turn Plug-in Hybrid EV system off.
3. Press and open the charging lid on the right rear side of the vehicle while the driver's door is unlocked.
4. Remove the hook to open the inner lid.
5. Insert the charging cable plug into an outlet.
6. Remove the cap on the regular charging connector and make sure that there is no foreign matter such as dust at the end of the regular charging connector and the regular charging inlet on the vehicle.
7. Fully insert the regular charging connector into the vehicle inlet until lock sound comes out without pressing the lock button on the connector.
   When the charging connector is fully connected, the charging connector will be locked.
8. Make sure that the charging indicator on the instrument cluster and the charging port is illuminated.
9. The charging is complete when the charging indicator turns off.
   Operate the driver's door unlock to unlock the charging connector.
   Then press the lock button and pull the regular charging connector off.
10. Close the inner lid and close the charging lid.
11. Remove the charging cable plug off the outlet.
12. Put the cap on the regular charging connector.

Issue Date : 08-21-2025
Revised Date :

2) Warning System for Maintenance / Malfunction

Type	Malfunction	Slow Down
Symbol		
Traveling	Impossible / Possible	Possible
Repair	Required	NOT-Required

- Cut off Terminal Voltage for Prevention of Battery Damage : 409 V

3) Facilities, Equipment and Test Procedures

Chassis Dynamometer : 48-inch, single roll electric(4WD)

Vehicle Break in Period: 4000Mile (6438km)

Range Test procedures: according to “CALIFORNIA TEST PROCEDURES FOR 2026 AND SUBSEQUENT MODEL YEAR ZERO-EMISSION VEHICLES AND PLUG-IN HYBRID ELECTRIC VEHICLES, IN THE PASSENGER CAR, LIGHT-DUTY TRUCK AND MEDIUM-DUTY VEHICLE CLASSES" Adopted: August 25, 2022 and 40 CFR Part 86

i) Procedure to Determine Mass Emissions of the Fuel-fired Heater

The vehicle is not equipped with a fuel-fired heating system.

ii) Battery Pre-conditioning Procedures (if necessary)

For CS emission test： Driving UDDS and confirm SOC.
For CD electricity consumption test： Not Applicable.

Issue Date : 08-21-2025
Revised Date :

12.06.00 Advanced Technology System Test Modes for Plug-in Hybrid Electric Vehicle

4) Vehicle Safety

i) Information on Safe Vehicle Operation

- High-voltage cable is orange color.
- Do not touch those cables, high voltage components labeled high voltage caution and their connectors without high voltage insulated wear.

ii) Information on Safe Handling of Battery System

Wear insulated gloves & boots, when working on high voltage cables, components and their connectors.
- If you work on high voltage cables, components and their connectors, you must perform the procedures below:
  Don't connect charging connector to vehicle inlet until battery maintenance is complete.
  Change vehicle operation mode to OFF. And don't change operation mode to READY and charge.
  Open bonnet and tailgate, and keep open until remove high voltage service plug.
  Push power switch once without depressing the brake pedal, and then long push power switch for a minimum of 5 second without depressing the brake pedal.
  Close driver's and passenger's doors, and then wait for a minimum of 5 min.
  Check multi-information display lights and electrical parking switch indicator are off.
  Remove cable from negative (-) terminal of 12V battery, and then wait for a minimum of 5 min.
  Remove high voltage service plug.
- If high voltage battery is damaged, there is a risk of short circuit to vehicle body due to leakage of electrolyte and it is necessary to be aware of electric shock.
- When damaged, the battery may emit white fumes (vaporized electrolyte) due to short circuit.

iii) Description of Emergency Procedures

- In case an accident occurs, follow the procedures below:
  (1) Move vehicle to a safe place and turn the key off.
  (2) Give priority to life-saving measures.
  (3) Call emergency (911).

12.07.00 Test Instructions and Vehicle Operation for Testing for Plug-in Hybrid Electric Vehicle

12.07.01 Test Instructions

1. Vehicle must be moved between prep/test sequences utilizing a vehicle crab, with motor off.

2. SOC level must be adjusted to 20.4% after prep for CS mode UDDS testing.
   Please contact Mitsubishi Motors R & D of America staff to verify how to measure SOC.

3. UDDS CS testing performed using 2-bag test procedure.

4. Highway/US06 CS testing performed using one driving schedule as a prep, then one driving schedule to measure emissions.

5. UDDS CD testing performed using 10 total cycles. Expected engine starts during 8th cycle, so CVS should be operated at beginning of 8th cycle.

6. Highway CD testing performed using 7 total cycles. Expected engine starts during 6th cycle, so CVS should be operated at beginning of 6th cycle.

   Note: The engine may start on an earlier cycle due to battery deterioration.
   The CVS may be operated continuously if engine start timing is unknown.

7. Canister loading and purge
   Purge : 300BV (660L), speed is 22.7L/min.
   Loading : 70g 100% butane, speed is 10gal/min.
   (See the figure in right)
   Bench purge(for ORVR) : 600L with 0.8 cfm.

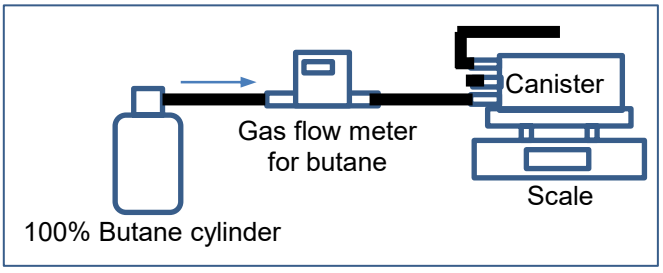


Figure: One of loading method to meet the requirement.

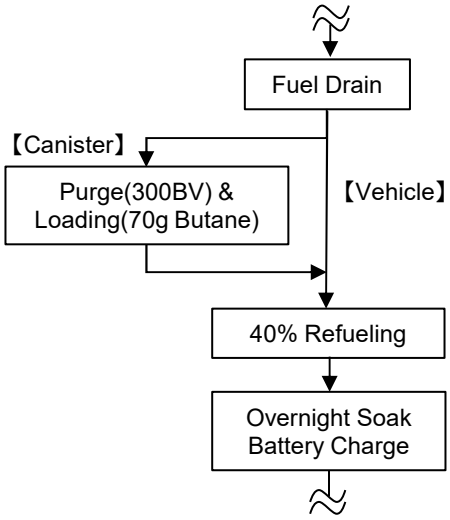
Issue Date : 08-21-2025
Revised Date :

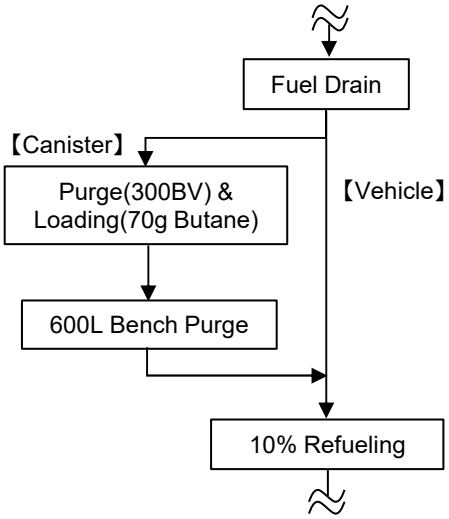
12.07.00 Test Instructions and Vehicle Operation for Testing for Plug-in Hybrid Electric Vehicle

12.07.01 Test Instructions

8. Canister preconditioning

Emission test & EVAP Test (2day/3day DBL)





9. Refueling up to 40% fuel tank volume.

10. Remove the coupler of DRLs (daytime running lights) to turn it off during testing.

Issue Date : 08-21-2025
Revised Date :

12.07.00 Test Instructions and Vehicle Operation for Testing for Plug-in Hybrid Electric Vehicle

12.07.01 Test Instructions

Approval Letter

MITSUBISHI MOTORS

MITSUBISHI MOTORS CORPORATION
1-21, Shibaura 3-chome, Minato-ku, Tokyo 108-8410 Japan

- CONFIDENTIAL -

April 7, 2020
20VCE-A019

REVIEWED AND ACCEPTED
DATE 4/21/20 EPA REP

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

Dear Mr. Bunker:

Subject: Approval Request for Updated, Alternative Canister Loading Method for Mitsubishi Models with Non Integrated Refueling Canister Only (NIRCO) System

Mitsubishi Motors Corporation (MMC) requests approval of an updated, alternative canister loading method for evaporative emission testing (2-Day, 3-Day, and ORVR) as described in 40 CFR §86.132-96(n). The updated method (attached) is similar to the alternative canister loading method in the previously-approved, PHEV test procedure for the first-generation Outlander PHEV.

The main differences between the current and updated methods are the butane loading volume and purge volume, due to model changes between the first and next-generation Outlander PHEV. The updated method can be used during compliance and in-use testing of future Mitsubishi models with NIRCO systems.

MMC attests the updated method meets the compliance requirements described in 40 CFR 86.1066-971, 86.153-98, 86.132-96, and California Refueling Emission Standard and Test Procedure for 2001 and Subsequent Model Motor Vehicles.

[Applicability]
Next-generation, 2023MY Outlander PHEV and subsequent Mitsubishi vehicles equipped Non-Integrated Refueling Canister Only (NIRCO) systems

[Test Procedure Description]
Please see attachment

We request EPA review and approval of the updated, alternative canister loading method by April 21, 2020.

- CONFIDENTIAL -

20VCE-A019 Updated Alternative Canister Loading Method for Mitsubishi Models with (NIRCO) System

If you have any questions or comments, please contact Andy Mabutol (714-514-2102) at our MRDA California office.

Sincerely,

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

Enclosures: (8)

cc: Mr. Michael Block / Mr. Andy Mabutol — MRDA Regulatory Affairs & Certification
Mr. Pingan He / Mr. Randy Gibson — MRDA Emissions Testing

Issue Date : 08-21-2025
Revised Date :

12.07.00 Test Instructions and Vehicle Operation for Testing for Plug-in Hybrid Electric Vehicle

12.07.02 Vehicle Operation for Testing

1. Before Test

   (1) Do not press the brake pedal, press the Power Switch twice.

   (2) Then press the brake pedal and shift to N position.

   (3) Move to C/D with a vehicle crab.

   (4) After completion of vehicle setup, press the Power Switch once without pressing the brake pedal.
   This will turn the system off.

2. Start of Test (CS test)

   (1) Start front cooling fan.

   (2) Turn on CVS blower.

   (3) Press the brake pedal and the Power Switch once (READY is displayed).
   This is similar to "Engine Start."

   (4) Start drive schedule.

   (5) Press the brake pedal.
   Shift to "D" at test time = 15 seconds.

   (6) Start driving.

3. End of Test

   (1) Press the brake pedal and the Power Switch once, then system off.
   (Shift position is changed to "P" automatically.)

   (2) Stop the CVS blower and front cooling fan.

4. 10min soak

   (1) Vehicle system off condition is required.

Issue Date : 08-21-2025
Revised Date :

12.07.00 Test Instructions and Vehicle Operation for Testing for Plug-in Hybrid Electric Vehicle

12.07.03 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

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 $1.7m^2$, 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.

12.07.00 Test Instructions and Vehicle Operation for Testing for Plug-in Hybrid Electric Vehicle

12.07.04 Certification Mode

When driving on a chassis dynamometer, Certification Mode should be enabled to prevent false failure detection of the G-Sensor.
Please contact Mitsubishi Motors Regulatory Affairs and Certification Group for instructions on how to enable Certification Mode.

Approval Letter

- CONFIDENTIAL -

MITSUBISHI MOTORS

MITSUBISHI MOTORS CORPORATION
1-21, Shibaura 3-chome, Minato-ku, Tokyo 108-8410 Japan

REVIEWED AND ACCEPTED
DATE 7/1/2021 EPA REP

June 11, 2021
21VCE-A021

Mr. Byron Bunker, Director
Compliance Division
Office of Transportation and Air Quality
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105
Dear Mr. Bunker:

Subject: Approval Request to Use Certification Mode for Certification Testing
on 2023MY Mitsubishi Outlander PHEV

Mitsubishi Motors Corporation (MMC) requests approval to use certification mode for chassis dynamometer emissions certification testing on 2023MY Mitsubishi Outlander PHEV.

2023MY Outlander PHEV uses a G-Sensor to measure proper acceleration. The Vehicle Dynamics Control Module (VDCM) uses G-Sensor output for control of regenerative braking and friction braking. Failure of the G-Sensor may result in reduced regenerative braking performance.

2023MY Outlander PHEV calculates expected proper acceleration based on wheel speed sensor output. Expected proper acceleration is then compared to G-Sensor output. When driving on a chassis dynamometer, proper acceleration is nearly zero. Therefore, failure of the G-Sensor may be falsely detected during certification testing.

To prevent false failure detection of the G-Sensor, we request to disable the comparrison of actual and expected proper acceleration using a proprietary diagnostic tool. This disablement, refered to as certification mode, will remain active until turned off using the proprietary diagnostic tool.

If you have any questions or comments, please contact Andy Mabutol (714-514-2102) at MRDA.

Sincerely,

T. Sakagami

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

cc: Mr. Stephane Thiriez / Mr. Andy Mabutol MRDA

Issue Date : 08-21-2025
Revised Date :

13.00.00 PROJECTED SALES

Refer to Nissan's Application.

Issue Date : 08-21-2025
Revised Date :

14.00.00 REQUEST FOR CERTIFICATE

14.01.00 Request for Certificate

Test Group	TMTXT02.4H3Y
Evaporative/Refueling Family	TMTXR0174A4M

Mitsubishi requests that EPA issue a 2026 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 Code of Federal Regulations. This combination meets all certification requirements, and the application is current as of this date.

T. Miyata

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

Issue Date : 08-21-2025
Revised Date :

14.00.00 REQUEST FOR CERTIFICATE

14.02.00 Request for Executive Order

Test Group	TMTXT02.4H3Y
Evaporative/Refueling Family	TMTXR0174A4M

Mitsubishi requests that CARB issue a 2026 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 : 08-21-2025
Revised Date :

15.00.00 OTHER INFORMATION

15.01.00 Notice of Confidential Business Information

Refer to Common Application.

15.02.00 ORVR Notification

Refer to Common Application.

Issue Date : 08-21-2025
Revised Date :

15.00.00 OTHER INFORMATION

15.03.00 Fee Filing Form

EPA_MVECP_v1

US EPA Fee Form

Help and EPA Instructions

* Required Field

General Information

Date: 06/25/2025

Process Code *
Submit New Fee Filing Form

Manufacturer Code *
MTX

Manufacturer Name *
Mitsubishi Motors

Contact Name *
Andy Mabutol

Contact Email Address *
andy.mabutol@na.mitsubishi-motors.com

Contact Phone *
(714) 514-2102

Calendar Year complete application submitted to EPA *
2025

Amount Owed
$32,939.00

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 *
TMTXT02.4H3Y

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

Issue Date : 08-21-2025
Revised Date :

16.00.00 CALIFORNIA ARB INFORMATION

16.01.00 Test Procedure

16.02.00 Warranty Statement and Maintenance Schedule

16.03.00 Fill Pipe Access Zone Statement and Specifications

16.04.00 Request for Certificate

Refer to Common Section.

Issue Date : 08-21-2025
Revised Date :

16.05.00

E.O.# _____

2026 MY AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer	:	Mitsubishi Motors Corporation		
Durability Group	:	TMTXHHVGNDBB	Test Group	: TMTXT02.4H3Y
Evap. Families	:	TMTXR0174A4M		
Test Group Cert.	:	50S		
Vehicle Class	:	LDT3 (LVW: 5095 lbs; GVWR: 6063 lbs)		
Exhaust Std(CA/Federal)	:	LEV IV SULEV30 / Tier 3 Bin 30		
In-Use Exh/Evap Std	:	150K / 150K		
Fuel Usage / Type(s)	:	Dedicated / Gasoline		
Durability Service ACCUM	:	Bench(Mfr. ADP and SRC for PM)		
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	:	0.018 for IUVP		
Evap Standard(CA/Federal)	:	LEV IV (Option 2 with FEL) / Tier 3		
Evap Emis Test Procedure	:	California		
R/L Test Procedure	:	SHED		
Exhaust ECS	:	EGR, EGRC, WR-HO2S, WU-TWC, HO2S, TWC, 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	: 131@5,000RPM
Engine Location	:	Front		
Drive	:	4WD-FT		
OBD II Compliance	:	Full		
NMOG+NOx Flt Avg [g/mi]	:	Refer to Nissan's Application		
Zero-Evap NMOG Credit	:	N/A		
ZEV Vehicle Value	:	N/A		

Adjustable Parameters/Tamper Resistance : N/A

* : Refer to Statements of Compliance in Common Application Section 08.01.00.

Issue Date : 08-21-2025
Revised Date :

E.O.# _____

2026 MY AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer : Mitsubishi Motors Corporation
Durability Group : TMTXHHVGNDBB Test Group : TMTXT02.4H3Y
Evap. Families : TMTXR0174A4M

Veh Class(es) : LDT3

ZEV Vehicle Value : N/A

Fuel Type(s) : Electro-chemical Battery

Battery Type(s) : Lithium-ion (Cathode:NMC, Anode: C)

Total Battery Weight : 187.3 kg
Battery Specific Energy : 110 Wh/kg No. of Batteries cells per Vehicle : 96 Cells

Total Battery Voltage : 350 V

Charger(s) : On-board, Off-board and Conductive

Drive Motor(s) : DC Brushless No. of Drive Motor(s) : 2
Rated Motor Power for Front 40 kW
Rated Motor Power for Rear 40 kW

Drive : 4WD-FT

Regenerative Braking : All-Wheels
Driver Controlled Regenerative Braking : Yes Coast Regen Braking : Yes

Air Conditioning : Yes
Fuel Fired Heater : N/A

Issue Date : 08-21-2025
Revised Date :

16.05.00

E.O.# _____

2026 MY AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer : Mitsubishi Motors Corporation
Durability Group : TMTXHHVGNDBB
Test Group : TMTXT02.4H3Y
Evap. Families : TMTXR0174A4M
Emission Standards : LEV IV SULEV30, LDT3
Evap Standards : LEV IV(Option2), LDT3

Vehicle Models	Sales Area	Engine Disp.	Trans.	Tire Size	ETW	Target Coefficients			C/D Time
						A	B	C	
ROGUE PLUG-IN HYBRID	50-S	2.4L	A1	P255/45R20	5000	41.575	0.20266	0.023401	22.10

For Cold CO Testing

Vehicle Models	Sales Area	Engine Disp.	Trans.	Tire Size	ETW	Target Coefficients			C/D Time
						A	B	C	
ROGUE PLUG-IN HYBRID	50-S	2.4L	A1	P255/45R20	5000	45.733	0.22293	0.025741	20.09

Emission Test Mode

Test Cycle	PHEV Mode	Driver Selectable Mode	Avaiable Driver Selectable Modes
FTP/50F	Charge Sustaining	Power	Normal, Eco, Snow, Mud, Gravel
HWFET	Charge Incresing	Normal w/Charge	Tarmac, Power, EV Priority/Save/Charge
US06	Charge Sustaining	Normal	Regenerative Braking Level Selector, E-pedal
SC03	Charge Incresing	Normal w/Charge	
Cold CO	Charge Sustaining	Power	

Issue Date : 08-21-2025
Revised Date :

16.06.00

E.O.# _____

2026 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer : Mitsubishi Motors Corporation
Durability Group : TMTXHHVGNDBB
Evap. Families : TMTXR0174A4M
Test Group : TMTXT02.4H3Y
Standard : LEV IV SULEV30

	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 FTTP 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 Warranty Statement	16.02.01 **
14 High Price Warranty List	16.02.02 **
15 Maintenance Schedule	16.02.03 **
16 Fill Pipe Specifications	16.03.01 **
17 Gen Std, Increase in Emiss, Safety, Meets all Reqmts	16.04.01 **

	Section #
18 Prod Veh Same as Test veh	16.04.01 *
19 Emission Label Durability	
20 Driveability Statement	
21 50 Degree F Compliance	
22 I/M Test Results	16.07.00 **
23 ASM Test Results	16.08.00 **
24 Projected Sales	13.00.00 **
25 Phase-in schedule:	16.10.00 **
26 Smog and Global Warming Score	N/A
27 NMOG + NOx Fleet Average Calc.	16.12.00 **
28 EPA Certificate	To be issued
29 Manufacturer's RAF	N/A
30 AB965 Credits/Withdrawals	N/A
31 Equiv NMOG Proc--ARB Approval	N/A

Test Vehicle Information	Durability Data Vehicle	Emission Data Vehicle	Emission Data Vehicle(Evap. and ORVR)
Vehicle ID MY NEW, C/O or C/A (Test Group)	NG-29 23MY C/O *** (PMTXT02.4H3M) EG-95 23MY C/O **** (PMTXT02.4H3M)	EB23-DH11 23MY C/O (PMTXT02.4H3M)	EB23-DH13 23MY C/O (PMTXT02.4H3M)

NOTE :
* In Test Group Application
** In Common Section
*** Catalyst Durability

Issue Date : 08-21-2025
Revised Date :

E.O.# _____

2026 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Exhaust Emission (FTP and HWY)

Vehicle ID (Config.) : EB23-DH11 (00) ETW : 5250
Engine Code : 24DU-UEN Target Coefficient : A 41.575 / B 0.20266 / C 0.023401
T/M : A1 Test Fuel : LEV III Regular

Unit: g/mile

Status	Mile	FTP								
		NMOG+NOx	NMHC	NOx	CO	PM	CH4	N2O	CO2	HCHO
Cert. Level	150K	0.028	0.005*	0.02*	0.1	0.001	0.002	0.001	324	0.000
Standard	150K	0.030	-	-	1.0	0.001	0.030	0.010	-	0.004
Additive DF	150K	0.0068	-	-	0.09	0.0002	0.0017	0.0001	-	0.0000

* 4K NMOG/NMHC=1.10

Unit: g/mile

Status	Mile	HWY	
		NMOG+NOx	CO2
Cert. Level	150K	0.024	379
Standard	150K	0.030	-
Additive DF	150K	0.0068	-

NMOG/NMHC=1.03

Exhaust Emission(US06 and SC03)

Vehicle ID (Config.) : EB23-DH11 (00) ETW : 5250
Engine Code : 24DU-UEN Target Coefficient : A 41.575 / B 0.20266 / C 0.023401
T/M : A1 Test Fuel : LEV III Regular

Unit: g/mile

Status	Mile	US06			SC03	
		NMOG+NOx	CO	PM	NMOG+NOx	CO
Cert. Level	150K	0.027	1.1	0.001	0.012	0.1
Standard	150K	0.036	9.6	0.006	0.030	1.0
Additive DF	150K	0.0068	0.099	0.0002	0.0068	0.09

NMOG/NMHC=1.03

Issue Date : 08-21-2025
Revised Date :

E.O.# _____

2026 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Exhaust Emisssion(50 deg. F)

Vehicle ID (Config.) : EB23-DH11 (00) ETW : 5250
Engine Code : 24DU-UEN Target Coefficient : A 41.575 / B 0.20266 / C 0.023401
T/M : A1 Test Fuel : LEV III Regular

Unit: g/mile

Status	Mile	50 deg. F	
		NMOG+NOx	CO
Cert. Level	4K	0.019	0.0
Standard	4K	0.060	1.0

NMOG/NMHC=1.10

Exhaust Emission(Cold CO)

Vehicle ID (Config.) : EB23-DH11 (01) ETW : 5250
Engine Code : 24DU-UEN Target Coefficient : A 45.733 / B 0.22293 / C 0.025741
T/M : A1 Test Fuel : Tier 3 Regular

Unit: g/mile

Status	Mile	Cold CO
		CO
Cert. Level	50K	0.3
Standard	50K	12.5
Additive DF	50K	0.03

Evap. and Refueling Emission

Vehicle ID (Config.) : EB23-DH13 (03) ETW : 5000
Engine Code : 24DU-UEN Target Coefficient : A 35.609 / B 0.14323 / C 0.023926
T/M : A1 Test Fuel : LEV III Regular, Tier 3 Regular for ORVR

Unit: g/mile for R/L, g/test for 2day and 3day, g/gal for ORVR

Status	Mile	R/L	2day DBL+HSL	3day DBL+HSL	ORVR
Cert. Level	150K	0.01	0.278	0.339	0.08
Standard	150K	0.01	0.500*	0.500*	0.20
Additive DF	150K	0.003	0.0000	0.0000	0.000

* FEL

Notes) All tests were conducted at Mitsubishi Motors Corporation Test Facility.

Issue Date : 08-21-2025
Revised Date :

E.O.# _____

2026 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

M Manufacturer : Mitsubishi Motors Corporation
D Durability Group : TMTXHHVGNDBB
E Evap. Families : TMTXR0174A4M

Test Group : TMTXT02.4H3Y
Standard : LEV IV SULEV30

Range Test Results					
Vehicle ID	Trans. Type*	(Check One) __TW X ETW	(Check One) __DPA X RLHP Or dyno coeff.	City Range (miles)	System AC (Ecd, kWh)
EB23-DH11	A1	5250	14.7	56.077	19.9019
				Hwy Range (miles)	System AC (Ecd, kWh)
				50.721	19.4949

* : A1 - Fixed Single Speed

Battery Test Results : Specific Energy : Wh/kg 110

Fuel Fired Heater Test Results (Emission Results in grams/mile) :

NMHC	CO	NOx
N/A	N/A	N/A

Remarks :

---------- ARB USE ONLY ----------

Application :
Processed By : _____ Date : _____ Reviewed by : _____ Date : _____

Issue Date : 08-21-2025
Revised Date :

E.O.# _____

2026 MY AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer : Mitsubishi Motors Corporation Test Group : TMTXT02.4H3Y Test Fuel : Tier 2

Charge Depleting Test (UDDS)

Phase (Cycle)	CD/CS/T	END SOC (%)	AS-VOLT *1	Integrated Ampere Hour (Ah)	Distance (mile)	THC (g/mile)	NMHC (g/mile)	NMOG (g/mile)	CH4 (g/mile)	NOx (g/mile)	CO (g/mile)	CO2 (g/mile)	FE (mpg)
1	CD	87.60	388.3	6.048	7.451	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
2	CD	77.60	376.6	11.623	7.449	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
3	CD	67.90	366.0	17.068	7.454	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
4	CD	58.10	356.9	22.609	7.453	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
5	CD	47.40	349.4	28.604	7.456	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
6	CD	37.30	344.3	34.340	7.452	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
7	CD	26.30	339.8	40.520	7.447	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
8	T	20.20	337.3	43.897	7.457	0.0218	0.0208	0.0216	0.0011	0.0445	0.03	121	72.8
9	CS	20.20	339.1	43.867	7.446	0.0001	0.0000	0.0000	0.0005	0.0040	0.02	222	39.7
10	CS	20.30	339.3	43.810	7.443	0.0001	0.0000	0.0000	0.0003	0.0029	0.01	240	36.8

Charge Depleting Test (HFEDS)

Phase (Cycle)	CD/CS/T	END SOC (%)	AS-VOLT *1	Integrated Ampere Hour (Ah)	Distance (mile)	THC (g/mile)	NMHC (g/mile)	NMOG (g/mile)	CH4 (g/mile)	NOx (g/mile)	CO (g/mile)	CO2 (g/mile)	FE (mpg)
1	CD	83.00	380.7	8.627	10.254	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
2	CD	68.30	363.0	16.887	10.256	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
3	CD	53.20	349.0	25.470	10.255	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
4	CD	37.00	338.2	34.598	10.255	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0	0.0
5	T	20.70	329.9	43.847	10.249	0.0130	0.0126	0.0130	0.0005	0.0012	0.02	7	1247.3
6	CS	21.70	338.2	43.255	10.252	0.0106	0.0096	0.0099	0.0011	0.0006	0.11	253	34.8

*1: Average System Voltage

Issue Date : 08-21-2025
Revised Date :

16.06.01 Alternative Urban Charge-Depleting Emission Test

Manufacturer	:	Mitsubishi Motors Corporation			
Durability Group	:	TMTXHHVGNDBB	Test Group	:	TMTXT02.4H3Y
Evap. Families	:	TMTXR0174A4M	Standard	:	LEV IV SULEV30

In accordance with section E.5 of "CALIFORNIA TEST PROCEDURES FOR 2026 AND SUBSEQUENT MODEL YEAR ZERO-EMISSION VEHICLES AND PLUG-IN HYBRID ELECTRIC VEHICLES, IN THE PASSENGER CAR, LIGHT-DUTY TRUCK AND MEDIUM-DUTY VEHICLE CLASSES", Mitsubishi used alternative charge-depleting emission test.

AERu = 56.077 miles (more than four UDDS cycles were driven without any engine startups)

$$EAERu = \left(\frac{Mcs - Mcd}{Mcs}\right) \times Rcdcu = \left(\frac{1791 - 121}{1791}\right) \times 59.6 = 55.57 \text{ miles}$$

Rcdcu	=	59.6 miles	
Yc	=	255 g/miles	on Charge Sustaining-Cold Test
Yh	=	219 g/miles	on Charge Sustaining-Hot Test
Dc	=	7.438 miles	on Charge Sustaining-Cold Test
Mcd*	=	121 g/miles	

$$Mcs = Yc + Yh \times \left(\frac{(Rcdcu - Dc)}{Dc}\right) = 255 + 219 \times \left(\frac{(59.6 - 7.438)}{7.438}\right) = 1791 \text{ g/miles}$$

* Mcd is calculated in accordance with section G 11.1 of MY18-25 ZEV and HEV test procedure and the use of this method was approved by CARB(Reference No. CLC-2024-199).

AERu/EAERu = 56.077 / 55.57 = 1.00 > 0.98

Issue Date : 08-21-2025
Revised Date :

16.06.02 PHEV Vehicle Value and PHEV NMOG+NOx Contribution Factor

Manufacturer	:	Mitsubishi Motors Corporation			
Durability Group	:	TMTXHHVGNDBB	Test Group	:	TMTXT02.4H3Y
Evap. Families	:	TMTXR0174A4M	Standard	:	LEV IV SULEV30

1) PHEV Vehicle Value

This vehicle cannot earn PHEV vehicle value based on 13 CCR 1962.4(e)(1).

2) PHEV NMOG+NOx Contribution Factor

Per 13 CCR 1961.4 (d)(1)(B)4, PHEV factor of ROGUE PLUG-IN HYBRID was calculated as described below.

Urban AER = 56.077 miles
Highway AER = 50.721 miles
Certification Range Value = 54 miles

$ZVMT_F$ = Certification Range Value/100 + 0.2

= 0.74

$PHEV_{factor}$ = Std-0.005 x $ZVMT_F$ -0.005 x US06RF

= 0.030-0.005 x 0.74

= 0.026

Issue Date : 08-21-2025
Revised Date :

16.07.00 I/M Testing

16.08.00 ASM Testing

16.09.00 California Projected Sales

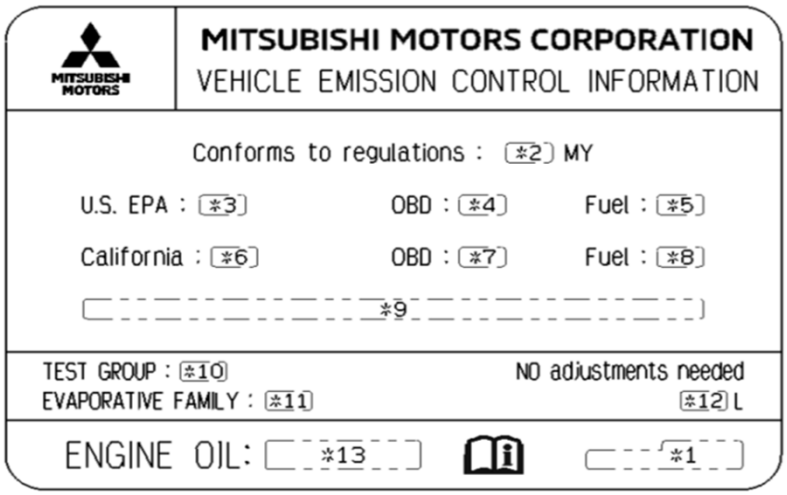
16.10.00 California OBD II Phase-in Schedule

Refer to Common Application.

Issue Date : 08-21-2025
Revised Date :

16.11.00 Label

16.11.01 Vehicle Emission Control Information Label (Sample)



14805W690P	2026	T3B30 LDT3	Ⅱ	Electric/Gasoline	LEV Ⅳ SULEV30 LDT3	Ⅱ	Electric/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,EGRC,WR-HO2S,WU-TWC,HO2S,TWC,SFI	TMTXT02.4H3Y	TMTXR0174A4M	2.4	SAE 0W-20
*9	*10	*11	*12	*13
EMISSION CONTROL SYSTEM	TEST GROUP	EVAPORATIVE FAMILY	ENGINE DISPLACEMENT	ENGINE OIL

Issue Date : 08-21-2025
Revised Date :

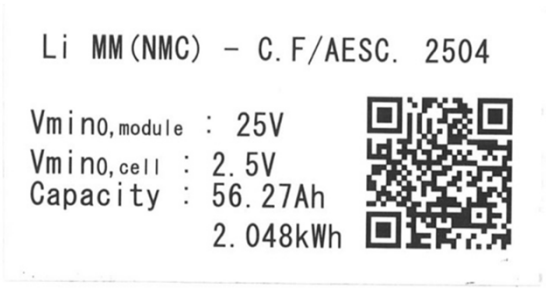
16.11.00 Label

16.11.01 Battery Label (Sample)

Vehicle Label (affixed to driver's side door jamb)

Battery Pack Label (affixed to battery pack surface)

Battery Module Label (affixed to battery moduke surface)



Issue Date : 08-21-2025
Revised Date :

16.12.00 Fleet Average Projection Information

Refer to Nissan's application.

Issue Date : 08-21-2025
Revised Date :

16.13.00 Attestation in accordance with 13 CCR 1961.4

Applicable Test Group: TMTXT02.4H3Y

In accordance with 13 CCR 1961.4, Mitsubishi attests that:

all vehicles in this test group meet HCHO standards for the full useful life, and
all vehicles in this test group meet SC03 NMOG+NOx and CO standards for the full useful life.

By: 
Name: Toshiyuki Miyata
Ttile: General Manager, Certification & Regulation Compliance Department
Date: August 21, 2025

Issue Date : 08-21-2025
Revised Date :

17.00.00 SERVICE OF PROCESS

See Common Section.

Issue Date : 08-21-2025
Revised Date :

18.00.00 REFERENCES

18.01.00 Certification Change

See Common Section.

Issue Date : 08-21-2025
Revised Date :