



27th August 2025

Mr. William Ott
Compliance Division
Office of Transportation and Air Quality
Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105
U.S.A.

Ref. No. LCE-25/140

Dear Mr. William Ott:

Subject: Submission of Application for Certification for Light-Duty Vehicles

Mazda Motor Corporation is submitting the Part I Initial Common Section and Part I Applications for Certification for the 2026 model year light-duty Vehicles below:

Carline	Test Group	Evap./Refueling Family	Standard	EPA Test
MAZDA MX-5 2.0L	TTKXV02.0FFB	TTKXR0095GCP	Federal Tier3-Bin125 California LEV IV-ULEV125	---

We would appreciate your cooperation in the issue of your certificate of conformity for our 2026MY Vehicles listed above at an early date.

If you have any comments or questions regarding the material submitted, please contact Mr. David Robertson of Mazda North American Operations at 313-600-0619 or by email at DRobertson@mazdausa.com.

Sincerely yours,

for
Tomo Ataka
General Manager
Environmental & Safety Engineering Department
Mazda Motor Corporation

Attachment

CC: Mazda North American Operations - Wixom Center
Mazda North American Operations - Irvine R&D
Mazda North American Operations - Washington DC

Mazda Motor Corporation

Application For Certification - Part 1

2026 Model Year

Durability Group:
TTKXGPGNNWB7

Evap. Family:
TTKXR0095GCP

Test Group:
TTKXV02.0FFB

Durability Group Description:
Otto Cycle, Four Stroke, Piston, Gasoline Fueled, Direct Fuel Injection,
Catalyst Code: Warm-up; PEJ5 / Underfloor; PSC7

Test Group Description:
2.0 Liter, I4 Engine, LDV

Applicable Standards:
Federal: Tier3-Bin125
California: LEV IV-ULEV125

Carlines Covered:
MAZDA MX-5

Vehicles Tested:

8EBPEU31-020	Config. 1	FTP	JTKX10051323	HWY	JTKX10051324
		US06	JTKX10051325	SC03	JTKX10051326
		Cold-FTP	JTKX10051327		
0EBPEPUS1-008	Config. 0	Evap(3day)	LTKX10061947	Evap(RL)	LTKX10061946
		ORVR	LTKX10061902		
		Canister Bleed	LTKX10061901		

EPA Response Requested by: November 25, 2025
CARB Response Requested by: November 25, 2025

For Questions, Contact:
EPA: David Robertson, 313-600-0619,
CARB: Tomohiro Taketani, 949-727-6588

Mazda Motor Corporation

2026 Model Year Application for Certification

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Please refer to individual test group's application section 6&7 test result (Certification Summary Information Report).

5. TEST GROUP DESCRIPTION**5-1. Description of Test Group per §86.1827-01**

Car Line	MAZDA MX-5
Test Group Name	TTKXV02.0FFB
Engine Displacements Covered	2.0L
Arrangement and Number of Cylinders	I4
Vehicle Class(es) Covered	LDV
Emission Standards Class	Federal Tier3-Bin125 California LEV IV-ULEV125
Applicable Emission Standards	Refer to section 6 & 7 of this application document

6&7. TEST VEHICLE DESCRIPTION & TEST RESULTS

- Exhaust Emission Test Results

Exhaust emission test results are carry across from 2018MY MAZDA CX-5 2.0L 2WD.

MAZDA MX-5 2.0L and MAZDA CX-5 2.0L share the same exhaust emission control system. In this case, Mazda has used its good engineering judgment to determine the worst case based on the amount of the exhaust gas volume during the emission mode. The highest amount of the exhaust gas volume represents the worst case since it emits the most exhaust emission. Mazda has determined that the amount of exhaust gas volume with MAZDA CX-5 2WD is the largest based on the Road Load Horsepower. Therefore, we selected it as the worst case.

Carline	MAZDA MX-5 Soft Top		MAZDA MX-5 Soft Top		MAZDA MX-5 RHT	MAZDA MX-5 RHT	MAZDA CX-5 2WD
Engine Displacement (liter)	2.0		2.0		2.0	2.0	2.0
Catalyst	warm-up and underfloor catalysts		warm-up and underfloor catalysts		warm-up and underfloor catalysts	warm-up and underfloor catalysts	warm-up and underfloor catalysts
ETW (lbs)	2750		2750		2750	2875	3625
Transmission	M6		S6 With Drive Selection		M6	S6 With Drive Selection	M6
Tire	195/50 R16	205/45 R17	195/50 R16	205/45 R17	205/45 R17	205/45 R17	P225/65 R17
Road Load Horsepower (hp)	11.7	11.7	11.8	11.8	11.7	12.0	13.4
Emission Data Vehicle							X (18MY)
Emission Durability Data Vehicle							X(18MY)

- Evaporative Emission Test Results

Evaporative Emission Test Results are carryover from 2020MY MAZDA MX-5 2.0L for EDV and 2019MY MAZDA 3 2.5 w/ cylinder deactivation (CD) for DDV.

MAZDA MX-5 2.0Ls share the same evaporative emission system. In this case, Mazda has determined that their evaporative performance is equivalent among them. We selected one with the highest Road Load Horsepower in 2020MY. In 2024MY one of the sub-configuration, MX-5 RHT S6 205/45 R17, increased its ETW from 2750 to 2875. However, Mazda has engineer judged that the evaporative performance is equivalent because the influence by the ETW difference is within testing variability.

MX-5 2.0L and MAZDA 3 2.5L w/ CD share the same evaporative emission system except for the working capacity (W/C) of the canister, difference in the size and the material of the fuel tank with regards to the deterioration of the evaporative emission control system. In this case, Mazda has used its good engineering judgment to determine the worst case based on the W/C of the canister, the size and material of the fuel tank. The larger ratio of size of the fuel tank vs W/C of the canister, the more deterioration of the evaporative emission system. Plastic deteriorates more than steel. Therefore, we selected the 2019MY MAZDA 3 2.5L w/ CD as the worst case for evaporative durability.

Carline	MAZDA MX-5 Soft Top		MAZDA MX-5 Soft Top		MAZDA MX-5 RHT	MAZDA MX-5 RHT	MAZDA 3 5-Door
Engine Displacement (liter)	2.0		2.0		2.0	2.0	2.5 w/ CD
Transmission	M6 2WD		S6 2WD With Drive Selection		M6 2WD	S6 2WD With Drive Selection	S6 2WD
Tire	195/50 R16	205/45 R17	195/50 R16	205/45 R17	205/45 R17	205/45 R17	215/45 R18
W/C of Canister					95		98
Fuel Tank Volume (liter)					45		50
Ratio of Fuel Tank Volume vs. W/C					0.47		0.51
Fuel Tank Material					Steel		Plastic
Emission Data Vehicle				X(20MY)			
Emission Durability Data Vehicle							X(19MY)

Manufacturer	Mazda Motor Corporation	Manufacturer Code	TKX
Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	08/07/2025 07:52:33 PM
Model Year	2026		

Test Group Information

CSI Type	New	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	Spark Ignition Direct fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	--	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	TTKXGPGNNWB7	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	--
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TTKXV02.5CDI
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	The test group:TTKXV02.0FFB is not selected as OBD demonstration vehicle. OBD Demonstration Vehicle Test Group above is required field. Therefore, 2026MY MAZDA CX-30 2.5L-DI w/o cylinder deactivation selected as OBD demonstration vehicle is indicated.		
Mfr Test Group Comments	Durability group equivalency factor = ABC/SRC For Tier3 E10 regular gasoline, the following ratios are applied. NMOG / NMHC = Calculated with the test fuel (for the FTP test cycle) NMOG / NMHC = 1.03 (for the HWY, US06 and SC03 test cycles)		
Mfr Exhaust / Evap Standards Comments	--		

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	08/06/2025 09:15:21 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	Steel				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	Carbon HC trap in air induction system, HC absorber				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	95	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	--						
Leak Family Details							
Leak Family Indicator	No						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Mazda Motor Corporation	1 - MAZDA	50 - MX-5	Federal	2-Wheel Drive, Rear	Semi-Automatic	6	Yes
Mazda Motor Corporation	1 - MAZDA	50 - MX-5	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Mazda Motor Corporation	1 - MAZDA	50 - MX-5	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	6	Yes
Mazda Motor Corporation	1 - MAZDA	50 - MX-5	Federal	2-Wheel Drive, Rear	Manual	6	No
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	GF-6 0W-20				
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	N				

Test Group	TTKXV02.0FFB		Evaporative/Refueling Family		TTKXR0095GCP
After Treatment Device(s) (ATD)					
ATD Number	ATD Type	ATD Precious Metal		Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium		Ceramic	Monolith
2	Three-way catalyst	Platinum + Rhodium		Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments					
--					
Direct Ozone Reduction (DOR) Device					
Not Equipped					
Mfr Emission Control Device Comments					
--					
Engine Configuration Number 1					
Engine Displacement (liters)	2.0		Engine Rated Horsepower		181
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	This technology optimizes the valve timing by using computer control to continuously switch the intake and exhaust valve opening/closing timing according to driving conditions.				
Variable Valve Lift?	No				
Variable Valve Lift System Description	--				
Number of Knock Sensors	1		Number of Air/Fuel Sensors		2
Air/Fuel Sensor # 1 Type	Heated air fuel		Air/Fuel Sensor # 1 Description		--
Air/Fuel Sensor # 2 Type	Heated oxygen		Air/Fuel Sensor # 2 Description		--
Mfr Air/Fuel Sensor Comments	--				
Exhaust Gas Recirculation	Yes		Cooled Exhaust Gas Recirculation		No
EGR Type	Variable Valve Timing Control		Exhaust Gas Recirculation Description if 'Other'		--
Closed Loop Air Injection System	No				
Air Injection Type	Not Applicable		Air Injection Type if 'Other'		--
Mfr Engine Configuration Comments	--				

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		JTKX10051323	JTKX10051325	JTKX10051326	JTKX10051327	JTKX10051324	29.3	228.2	39.0	286.1	--

Calculated result with R factor "0.81" with E10 fuel is;

24.7 22.9 30.0 27.9

For details, please refer to PEPU-34

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Emission Data Vehicle Information

Vehicle ID / Configuration	0EBPEPUS1-008 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	LTKXV02.0FFA	Original Evaporative/Refueling Family	LTKXR0095GCP
Original Test Vehicle Model Year	2020		

Vehicle Model

Represented Test Vehicle Make	MAZDA	Represented Test Vehicle Model	MX-5
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Leak Family Details

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

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	1.032
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	OPEPUSAAA	Rated Horsepower	181
Displacement (liters)	2		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	2403	Equivalent Test Weight (pounds)	2750
GVWR (lbs)	2789	N/V Ratio	29.8
Axle Ratio	3.58		
Transmission Type	Automatic	# of Transmission Gears	6
Transmission Lockup	Yes	Creeper Gear	No

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	32.914	0.11588	0.019952	16.195	-0.03255	0.019911	11.8

Emission Control Device Comments --

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Manufacturer Test Vehicle Comments 20MY MX-5 ST 2.0L ETW 2750 S6 205/45 R17 0 EM

Test #	LTKX10061947	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	LTKX10061945	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/11/2019	Fuel	Gasoline
Fuel Batch ID	1936G3	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	2929	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1974892	--

Manufacturer Test Comments 20MY MX-5 ST 2.0L 2WD 2750 S6 205/45 R17 0 3Day-Evap EM

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	0.1975	0.0326	0.230	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1975	0.0326	0.230	0.300	Pass

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Test #	LTKX10061902	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	LTKX10061900	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	07/12/2019	Fuel	Gasoline
Fuel Batch ID	1902T3	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	2492	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0392685	--

Manufacturer Test Comments 20MY MX-5 ST 2.0L 2WD 2750 S6 205/45 R17 0 ORVR EM

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	0.039	0.000	0.04	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.039	0.000	0.04	0.20	Pass

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Test #	LTKX10061946	Test Procedure	37 - California Fuel Running Loss
Exhaust Test # for this Evap Test	LTKX10061945	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/11/2019	Fuel	Gasoline
Fuel Batch ID	1936G3	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	2911	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

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	--

Manufacturer Test Comments 20MY MX-5 ST 2.0L 2WD 2750 S6 205/45 R17 0 Running Loss EM

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	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Test #	LTKX10061901	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	06/10/2019	Fuel	Gasoline
Fuel Batch ID	1933G3	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	MAHLE		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4000	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.0096	--

Manufacturer Test Comments 20MY MX-5 ST 2.0L 2WD 2750 S6 205/45 R17 0 LEV3 ULEV125 BETP EM

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0096	0.0000	0.010	0.020	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0096	0.0000	0.010	0.020	Pass

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	28.132	0.30237	0.022969	11.99	0.09355	0.023316	13.4
Cold CO	31.258	0.33597	0.025522	7.527	0.04861	0.026141	N/A
US06	28.132	0.30237	0.022969	11.99	0.09355	0.023316	N/A

Emission Control Device Comments

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Manufacturer Test Vehicle Comments

18MY CX-5 2.0L 2WD ETW 3625 M6 P225/65 R17 1 EM

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Test #	JTKX10051323	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/12/2017	Fuel	Gasoline
Fuel Batch ID	1707T3	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2200	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	287.514	--
FE BAG 1 (Bag 1 Fuel Economy)	30.1773	30.1773
CO2 BAG 2 (Bag 2 Carbon Dioxide)	297.893	--
FE BAG 2 (Bag 2 Fuel Economy)	29.3279	29.3279
CO2 BAG 3 (Bag 3 Carbon Dioxide)	257.777	--
FE BAG 3 (Bag 3 Fuel Economy)	33.8534	33.8534
METHANE (CH4 - Methane)	0.0059212	--
CO (Carbon Monoxide)	0.2292	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.3775014	--
DT-EER (Drive Trace Energy Economy Rating)	-0.5757559	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.339229	--
MFR FE (Manufacturer Fuel Economy)	30.625	30.625
NOX (Nitrogen Oxide)	0.0303702	--
N2O (Nitrous Oxide)	0.0004306	--
HC-NM (Non-methane Hydrocarbon)	0.007759	--
NMOG (Non-methane organic gases)	0.0085166	--
PM (Particulate Matter)	0.0001824	--
HC-TOTAL (Total Hydrocarbon)	0.013453	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	285.4008058	999

Certification Summary Information Report

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	284.722	--

Manufacturer Test Comments 18MY CX-5 2.0L 2WD ETW 3625 M6 P225/65 R17 1 EM

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0.0059	--	--	--	0.0204	--	0.026	0.035	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0004	--	--	--	0.0010	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.23	--	--	--	0.07	--	0.3	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.52	--	--	--	0.07	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0085	--	--	--	0.0234	--	0.032	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0389	--	--	--	--	--	0.062	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0659	--	--	--	0	--	0.066	0.120	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0304	--	--	--	0.0000	--	0.030	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0002	--	--	--	0.0001	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.23	--	--	--	0.07	--	0.3	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	METHANE	0.0059	--	--	--	0.0204	--	0.026	0.035	Pass
CA	150,000 miles	California LEV-IV ULEV125	N2O	0.0004	--	--	--	0.0010	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0085	--	--	--	0.0234	--	0.032	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0389	--	--	--	--	--	0.062	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0304	--	--	--	0.0000	--	0.030	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0002	--	--	--	0.0001	--	0.000	0.003	Pass

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

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Test #	JTKX10051327	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/14/2017	Fuel	Gasoline
Fuel Batch ID	1703CX	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2302	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	343.033	--
FE BAG 1 (Bag 1 Fuel Economy)	24.9769	24.9769
CO2 BAG 2 (Bag 2 Carbon Dioxide)	318.344	--
FE BAG 2 (Bag 2 Fuel Economy)	27.1113	27.1113
CO2 BAG 3 (Bag 3 Carbon Dioxide)	269.525	--
FE BAG 3 (Bag 3 Fuel Economy)	31.9251	31.9251
METHANE (CH4 - Methane)	0.0092938	--
CO (Carbon Monoxide)	0.23591	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.5048588	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4874505	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.2736548	--
MFR FE (Manufacturer Fuel Economy)	27.769	27.769
NOX (Nitrogen Oxide)	0.0247011	--
N2O (Nitrous Oxide)	0.0003897	--
HC-NM (Non-methane Hydrocarbon)	0.0279931	--
NMOG (Non-methane organic gases)	0.0307663	--
HC-TOTAL (Total Hydrocarbon)	0.03716	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	310.051	--

Manufacturer Test Comments

18MY CX-5 2.0L 2WD ETW 3625 M6 P225/65 R17 1 EM

Certification Summary Information Report

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 125	CO	0.24	--	--	--	0.02	--	0.3	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.03	--	--	--	0.02	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV125	CO	0.24	--	--	--	0.02	--	0.3	10.0	Pass
CA	120,000 miles	California LEV-IV ULEV125	HC-NM	0.03	--	--	--	0.02	--	0.0	0.3	Pass

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Test #	JTKX10051324	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/12/2017	Fuel	Gasoline
Fuel Batch ID	1707T3	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2213	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0067225	--
CO (Carbon Monoxide)	0.07157	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4247138	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1158639	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.017335	--
MFR FE (Manufacturer Fuel Economy)	41.9922	41.9922
NOX (Nitrogen Oxide)	0.0066631	--
N2O (Nitrous Oxide)	0.0000594	--
HC-NM (Non-methane Hydrocarbon)	0.0042152	--
NMOG (Non-methane organic gases)	0.0043416	--
HC-TOTAL (Total Hydrocarbon)	0.010846	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	208.1433726	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	208.111	--

Manufacturer Test Comments

18MY CX-5 2.0L 2WD ETW 3625 M6 P225/65 R17 1 EM

Certification Summary Information Report

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0043	--	1.03	--	0.0234	--	0.028	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0110	--	1.03	--	--	--	0.034	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0067	--	--	--	0.0000	--	0.007	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0043	--	1.03	--	0.0234	--	0.028	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0110	--	1.03	--	--	--	0.034	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0067	--	--	--	0.0000	--	0.007	99.999	Pass

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

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Test #	JTKX10051325	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/12/2017	Fuel	Gasoline
Fuel Batch ID	1707T3	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2238	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	436.903	--
FE BAG 1 (Bag 1 Fuel Economy)	19.8855	19.8855
CO2 BAG 2 (Bag 2 Carbon Dioxide)	268.728	--
FE BAG 2 (Bag 2 Fuel Economy)	32.3334	32.3334
METHANE (CH4 - Methane)	0.0149514	--
CO (Carbon Monoxide)	0.91409	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.0312842	--
DT-EER (Drive Trace Energy Economy Rating)	-0.8860384	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.036425	--
MFR FE (Manufacturer Fuel Economy)	28.4159	28.4159
NOX (Nitrogen Oxide)	0.0205012	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0363529	--
NMOG (Non-methane organic gases)	0.0374435	--
PM (Particulate Matter)	0.0004631	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.056854	--
HC-TOTAL (Total Hydrocarbon)	0.0511	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	306.032	--

Certification Summary Information Report

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Manufacturer Test Comments 18MY CX-5 2.0L 2WD ETW 3625 M6 P225/65 R17 1 EM

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 125	PM	0.0005	--	--	--	0.0001	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.91	--	--	--	0.07	--	1.0	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0374	--	1.03	--	0.0234	--	0.061	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0579	--	1.03	--	--	--	0.081	0.150	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0205	--	--	--	0.0000	--	0.020	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0005	--	--	--	0.0001	--	0.001	0.006	Pass

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Test #	JTKX10051326	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/12/2017	Fuel	Gasoline
Fuel Batch ID	1707T3	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2256	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0054176	--
CO (Carbon Monoxide)	0.30624	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0531599	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4100339	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.0224975	--
MFR FE (Manufacturer Fuel Economy)	24.8655	24.8655
NOX (Nitrogen Oxide)	0.0322411	--
N2O (Nitrous Oxide)	0.000064	--
HC-NM (Non-methane Hydrocarbon)	0.0020406	--
NMOG (Non-methane organic gases)	0.0021019	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.034282	--
HC-TOTAL (Total Hydrocarbon)	0.007386	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	350.677	--

Manufacturer Test Comments

18MY CX-5 2.0L 2WD ETW 3625 M6 P225/65 R17 1 EM

Test Group		TTKXV02.0FFB				Evaporative/Refueling Family				TTKXR0095GCP		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-IV ULEV125	CO	0.31	--	--	--	0.07	--	0.4	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0021	--	1.03	--	0.0234	--	0.026	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0343	--	1.03	--	--	--	0.058	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0322	--	--	--	0.0000	--	0.032	99.999	Pass

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Fuel Properties			
Fuel Batch ID	1703CX	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	03/24/2016
Fuel Batch Calibration Effective Date	09/11/2017	Fuel Batch Calibration Ineffective Date	03/10/2018
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.737
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17852
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	1707T3	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/29/2016
Fuel Batch Calibration Effective Date	09/11/2017	Fuel Batch Calibration Ineffective Date	03/10/2018
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17834
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	1902T3	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/06/2016
Fuel Batch Calibration Effective Date	05/06/2019	Fuel Batch Calibration Ineffective Date	11/05/2019
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.747
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17839
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	1936G3	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	04/07/2019
Fuel Batch Calibration Effective Date	08/26/2019	Fuel Batch Calibration Ineffective Date	02/25/2020
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17832
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	1933G3	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	05/07/2019
Fuel Batch Calibration Effective Date	07/23/2019	Fuel Batch Calibration Ineffective Date	01/22/2021
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17849
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Both
Vehicle Class	LDV/Passenger Car	Standard Level	California LEV-IV ULEV125
Fuel	Gasoline	Test Procedure	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	2.1
150,000 miles	METHANE	--	--	--	--	--	--	0.0204	0.035
150,000 miles	N2O	--	--	--	--	--	--	0.0010	0.010
150,000 miles	NMOG	--	--	--	--	--	--	0.0234	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 125
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	--	--	--	--	--	--	0.02	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.02	0.3

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Both
Vehicle Class	LDV/Passenger Car	Standard Level	California LEV-IV ULEV125
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	--	--	--	--	--	--	0.07	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0234	99.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.150
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006

Certification Summary Information Report

Test Group		TTKXV02.0FFB			Evaporative/Refueling Family			TTKXR0095GCP		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125		
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	0	999.9999	
120,000 miles	METHANE	--	--	--	--	--	--	0.0204	0.035	
120,000 miles	N2O	--	--	--	--	--	--	0.0010	0.010	
150,000 miles	CO	--	--	--	--	--	--	0.07	2.1	
150,000 miles	CO-COMP	--	--	--	--	--	--	0.07	4.2	
150,000 miles	NMOG	--	--	--	--	--	--	0.0234	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.120	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	0	999.9999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0234	99.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.125	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999	

Certification Summary Information Report

Test Group	TTKXV02.0FFB				Evaporative/Refueling Family			TTKXR0095GCP		
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both		
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV ULEV125		
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	--	--	--	--	--	--	0.07	2.1	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0234	99.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.125	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999	

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both		
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV ULEV125		
Fuel	Gasoline				Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0234	99.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.125	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999	

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both		
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV ULEV125		
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	--	--	--	--	--	--	0.02	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.02	0.3	

Cert Region	Federal				Cert/In-Use Code			Both		
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 125		
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	--	--	--	--	--	--	0.0001	0.006	

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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Evaporative/Refueling Standards

Evaporative/Refueling Family	TTKXR0095GCP	Cert Region	Federal		
Cert/In-Use Code	Both	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	0.000

Evaporative/Refueling Family	TTKXR0095GCP	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0.0000

Evaporative/Refueling Family	TTKXR0095GCP	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0326

Evaporative/Refueling Family	TTKXR0095GCP	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both	Standard Level	California LEV-IV Zero Evap (Option 2)		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Evaporative/Refueling Family	TTKXR0095GCP	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both	Standard Level	California LEV-IV Zero Evap (Option 2)		
Test Procedure	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0326

Certification Summary Information Report

Test Group	TTKXV02.0FFB		Evaporative/Refueling Family	TTKXR0095GCP	
Evaporative/Refueling Family	TTKXR0095GCP		Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0.0000
Evaporative/Refueling Family	TTKXR0095GCP		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000
Evaporative/Refueling Family	TTKXR0095GCP		Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
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	0.000

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family	TTKXR0095GCP
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			

Test Group	TTKXV02.0FFB	Evaporative/Refueling Family		TTKXR0095GCP
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	

Test Group		TTKXV02.0FFB	Evaporative/Refueling Family		TTKXR0095GCP
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	

6&7. TEST VEHICLE DESCRIPTION & TEST RESULTS (contd.)

Test Vehicle				Required Test					Test Result											
model	engine	T/M	vehicle ID	FTP	HWY	US06	SC03	Cold-CO	FTP Total	FTP Bag1	FTP Bag2	FTP Bag3	HWY	US06 Total	US06 City	US06 HWY	SC03	Cold-CO Bag1	Cold-CO Bag2	Cold-CO Bag3
CX-5	2.0L	M6	8EBPEU31-020	☆	☆	☆	☆	☆	30.6	30.2	29.3	33.9	42.0	28.4	19.9	32.3	24.9	25.0	27.1	31.9

FTP Total	30.6
FTP Bag1	30.2
FTP Bag2	29.3
FTP Bag3	33.9
HWY Total	42.0
US06 Bag1	19.9
US06 Bag2	32.3
SC03 Total	24.9
Cold-CO Bag1	25.0
Cold-CO Bag2	27.1
Cold-CO Bag3	31.9

StartFC	0.00140
StartFuel75	0.01301
StartFuel20	0.03115
RunningFC	0.035301468
City 5-cycle	24.66006439
↓	
CTY 5-cycle F/E	24.7
CTY Total	30.6
CTY MPG	23.8080
CTY MPG×0.96	22.8556
↓	
CTY MPG F/E	22.9

StartFC	0.00010
StartFuel75	0.01301
StartFuel20	0.03115
RunningFC	0.030108459
HWY 5-cycle	29.963
↓	
HWY 5-cycle F/E	30.0
HWY Total	42.0
HWY MPG	29.4010
HWY MPG×0.95	27.9310
↓	
HWY MPG F/E	27.9

These tests were conducted with E10 fuel and F/E were calculated with R factor "0.81".
 Our calculation result is showing below.
 (In case of the tests were conducted with E10 fuel, litmus judge does not calculate properly on the EV-CIS.
 Please refer to 6&7-PEPU-6.)

CTY			HWY		
5-cycle	vs	MPG	5-cycle	vs	MPG
24.7	≥	22.9	30.0	≥	27.9

F/E calculation method is
MPG

Vehicle Information for Durability Vehicle (Exhaust DDV)

Verify Processing Report

Total Datasets Submitted: 1
Accepted Datasets: 1
Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission**Test Vehicle Information Details**

Information Process Code : N
EPA Manufacturer Code : TKX
Vehicle Identification Text : 8DBPEU31-018
Vehicle Configuration Number : 0

Vehicle Configuration Details**Vehicle Description Details**

Manufacturer Vehicle Configuration Number : 0
Test Group Name : JTKXT02.0FBA
Evaporative Refueling Family Name : JTKXR0120GAL
Model Year : 2018
Actual Test Vehicle Make Text : MAZDA
Actual Test Vehicle Model Text : CX-5

Drive Source Details

Drive Source Identifier : C
Fuel Identifier : G

Test Drive Code : F
Shift Indicator Light Usage Identifier : 5
Aged Component Usage Identifier : 150

Odometer Correction Details

Correction Initial Value : 0.0
Correction Factor Value : 0.991
Correction Sign Identifier : -
Correction Units Code : M

Engine Code Text : 8PEU3AAA
Engine Rated Horsepower Value : 156
Engine Displacement Value : 2.0

Air Aspiration Details

Air Aspiration Method Identifier : NA

Vehicle Specifications Details

Curb Weight Value : 3322
Equivalent Test Weight Value : 3625
Gross Vehicle Weight Rating Value : 4286
NV Ratio Value : 38.9
Axle Ratio Value : 4.71

Transmission Specifications Details

Light Duty Transmission Type Identifier : M
Transmission Lockup Indicator : N
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 6

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 28.132
Target CoefficientB Value : 0.30237
Target CoefficientC Value : 0.022969
Set CoefficientA Value : 10.333
Set CoefficientB Value : 0.12505
Set CoefficientC Value : 0.022992

Manufacturer Comment Text : 18MY CX-5 2.0L 2WD ETW 3625 M6 P225/65 R17 0
EM DF

EPA Generated Test Vehicle Details

Original Receipt Date : 20171218
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3804
Loaded Vehicle Weight Value : 3622
Total Road Load Horsepower Value : 13.4

Transaction Status Details

Transaction Status Identifier : ACCEPTED

Vehicle Information for Durability Vehicles (Evaporative DDV)

Verify Processing Report

Total Datasets Submitted: 1
Accepted Datasets: 1
Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission**Test Vehicle Information Details**

Information Process Code : C
EPA Manufacturer Code : TKX
Vehicle Identification Text : 9DBPYUDS1-001
Vehicle Configuration Number : 0

Vehicle Configuration Details**Vehicle Description Details**

Manufacturer Vehicle Configuration Number : 0
Test Group Name : KTKXV02.5CDA
Evaporative Refueling Family Name : KTKXR0098GDP
Model Year : 2019
Actual Test Vehicle Make Text : MAZDA
Actual Test Vehicle Model Text : Mazda3

Drive Source Details

Drive Source Identifier : C
Fuel Identifier : G

Test Drive Code : F
Shift Indicator Light Usage Identifier : 1
Aged Component Usage Identifier : 150

Odometer Correction Details

Correction Initial Value : 0.0
Correction Factor Value : 1.280
Correction Sign Identifier : -
Correction Units Code : M

Engine Code Text : 9PYUDSAAA
Engine Rated Horsepower Value : 186
Engine Displacement Value : 2.5

Air Aspiration Details

Air Aspiration Method Identifier : NA

Charge Air Cooler Identifier : N

Vehicle Specifications Details

Curb Weight Value : 3091
Equivalent Test Weight Value : 3375
Gross Vehicle Weight Rating Value : 4069
NV Ratio Value : 29.1
Axle Ratio Value : 3.59

Transmission Specifications Details

Light Duty Transmission Type Identifier : A
Transmission Lockup Indicator : Y
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 6

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 27.590
Target CoefficientB Value : 0.26167
Target CoefficientC Value : 0.017288
Set CoefficientA Value : 7.030
Set CoefficientB Value : 0.14410
Set CoefficientC Value : 0.017279

Manufacturer Comment Text : 19MY Mazda3 5HB 2.5L W/Cylinder Deactivation
2WD ETW 3375 S6 215/45 R18 0 Evap DF 150K

EPA Generated Test Vehicle Details

Original Receipt Date : 20180809
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3580
Loaded Vehicle Weight Value : 3391
Total Road Load Horsepower Value : 11.2

Transaction Status Details

Transaction Status Identifier : ACCEPTED

Vehicle Information for Durability Vehicles (Evaporative DDV)

Verify Processing Report

Total Datasets Submitted: 1
 Accepted Datasets: 1
 Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : C
 EPA Manufacturer Code : TKX
 Vehicle Identification Text : 9DBPYUDS1-001
 Vehicle Configuration Number : 1

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 1
 Test Group Name : KTKXV02.5CDA
 Evaporative Refueling Family Name : KTKXR0098GDP
 Model Year : 2019
 Actual Test Vehicle Make Text : MAZDA
 Actual Test Vehicle Model Text : Mazda3

Drive Source Details

Drive Source Identifier : C
 Fuel Identifier : G

Test Drive Code : F
 Shift Indicator Light Usage Identifier : 1
 Aged Component Usage Identifier : 4

Odometer Correction Details

Correction Initial Value : 0.0
 Correction Factor Value : 1.280
 Correction Sign Identifier : -
 Correction Units Code : M

Engine Code Text : 9PYUDSAAA
 Engine Rated Horsepower Value : 186
 Engine Displacement Value : 2.5

Air Aspiration Details

Air Aspiration Method Identifier : NA

Charge Air Cooler Identifier : N

Vehicle Specifications Details

Curb Weight Value : 3091
Equivalent Test Weight Value : 3375
Gross Vehicle Weight Rating Value : 4069
NV Ratio Value : 29.1
Axle Ratio Value : 3.59

Transmission Specifications Details

Light Duty Transmission Type Identifier : A
Transmission Lockup Indicator : Y
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 6

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 27.590
Target CoefficientB Value : 0.26167
Target CoefficientC Value : 0.017288
Set CoefficientA Value : 7.360
Set CoefficientB Value : 0.15271
Set CoefficientC Value : 0.017267

Manufacturer Comment Text : 19MY Mazda3 5HB 2.5L W/Cylinder Deactivation
2WD ETW 3375 S6 215/45 R18 1 Evap DF 4K

EPA Generated Test Vehicle Details

Original Receipt Date : 20180809
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3580
Loaded Vehicle Weight Value : 3391
Total Road Load Horsepower Value : 11.2

Transaction Status Details

Transaction Status Identifier : ACCEPTED

Vehicle Information for Durability Vehicles (Evaporative DDV)

Verify Processing Report

Total Datasets Submitted: 1
Accepted Datasets: 1
Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission**Test Vehicle Information Details**

Information Process Code : C
EPA Manufacturer Code : TKX
Vehicle Identification Text : 9DBPYUDS1-002
Vehicle Configuration Number : 0

Vehicle Configuration Details**Vehicle Description Details**

Manufacturer Vehicle Configuration Number : 0
Test Group Name : KTKXV02.5CDA
Evaporative Refueling Family Name : KTKXR0098GDP
Model Year : 2019
Actual Test Vehicle Make Text : MAZDA
Actual Test Vehicle Model Text : Mazda3

Drive Source Details

Drive Source Identifier : C
Fuel Identifier : G

Test Drive Code : F
Shift Indicator Light Usage Identifier : 1
Aged Component Usage Identifier : 150

Odometer Correction Details

Correction Initial Value : 0.0
Correction Factor Value : 1.304
Correction Sign Identifier : -
Correction Units Code : M

Engine Code Text : 9PYUDSAAA
Engine Rated Horsepower Value : 186
Engine Displacement Value : 2.5

Air Aspiration Details

Air Aspiration Method Identifier : NA

Charge Air Cooler Identifier : N

Vehicle Specifications Details

Curb Weight Value : 3091
Equivalent Test Weight Value : 3375
Gross Vehicle Weight Rating Value : 4069
NV Ratio Value : 29.1
Axle Ratio Value : 3.59

Transmission Specifications Details

Light Duty Transmission Type Identifier : A
Transmission Lockup Indicator : Y
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 6

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 27.590
Target CoefficientB Value : 0.26167
Target CoefficientC Value : 0.017288
Set CoefficientA Value : 8.396
Set CoefficientB Value : 0.14017
Set CoefficientC Value : 0.017323

Manufacturer Comment Text : 19MY Mazda3 5HB 2.5L W/Cylinder Deactivation
2WD ETW 3375 S6 215/45 R18 0 Evap DF 150K

EPA Generated Test Vehicle Details

Original Receipt Date : 20180809
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3580
Loaded Vehicle Weight Value : 3391
Total Road Load Horsepower Value : 11.2

Transaction Status Details

Transaction Status Identifier : ACCEPTED

Vehicle Information for Durability Vehicles (Evaporative DDV)

Verify Processing Report

Total Datasets Submitted: 1
 Accepted Datasets: 1
 Rejected Datasets: 0

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : C
 EPA Manufacturer Code : TKX
 Vehicle Identification Text : 9DBPYUDS1-002
 Vehicle Configuration Number : 1

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 1
 Test Group Name : KTKXV02.5CDA
 Evaporative Refueling Family Name : KTKXR0098GDP
 Model Year : 2019
 Actual Test Vehicle Make Text : MAZDA
 Actual Test Vehicle Model Text : Mazda3

Drive Source Details

Drive Source Identifier : C
 Fuel Identifier : G

Test Drive Code : F
 Shift Indicator Light Usage Identifier : 1
 Aged Component Usage Identifier : 4

Odometer Correction Details

Correction Initial Value : 0.0
 Correction Factor Value : 1.304
 Correction Sign Identifier : -
 Correction Units Code : M

Engine Code Text : 9PYUDSAAA
 Engine Rated Horsepower Value : 186
 Engine Displacement Value : 2.5

Air Aspiration Details

Air Aspiration Method Identifier : NA

Charge Air Cooler Identifier : N

Vehicle Specifications Details

Curb Weight Value : 3091
Equivalent Test Weight Value : 3375
Gross Vehicle Weight Rating Value : 4069
NV Ratio Value : 29.1
Axle Ratio Value : 3.59

Transmission Specifications Details

Light Duty Transmission Type Identifier : A
Transmission Lockup Indicator : Y
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 6

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 27.590
Target CoefficientB Value : 0.26167
Target CoefficientC Value : 0.017288
Set CoefficientA Value : 9.273
Set CoefficientB Value : 0.14308
Set CoefficientC Value : 0.017256

Manufacturer Comment Text : 19MY Mazda3 5HB 2.5L W/Cylinder Deactivation
2WD ETW 3375 S6 215/45 R18 1 Evap DF 4K

EPA Generated Test Vehicle Details

Original Receipt Date : 20180809
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 3580
Loaded Vehicle Weight Value : 3391
Total Road Load Horsepower Value : 11.2

Transaction Status Details

Transaction Status Identifier : ACCEPTED

6&7. TEST VEHICLE DESCRIPTION & TEST RESULTS (Contd.)

Please refer to Final GHG report for the GHG CREE in-use emission standards.

12. DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE AND TEST PARAMETERS

12-1. Vehicle Parameters

Carline	MAZDA MX-5					
Model Name	MAZDA MX-5 Soft Top			MAZDA MX-5 RHT		
Vehicle Classification	LDV					
Emission Control System	TWC/WU-TWC/HO2S/WR-HO2S/DFI					
Engine Code	9PEPU3AAA		0PEPUSAAA		9PEPU3AAB	4PEPUSAAA
Number of Valves per Cylinder	4					
Engine Displacement (L)	2.0					
Sales Area	Federal / California					
Transmission	M6		S6 With Drive Selection		M6	S6 With Drive Selection
Overdrive	No		Yes		No	Yes
Regenerative Braking System	Not Applicable					
Grill Shutter	Not Applicable					
SIL	Applicable		Not Applicable		Applicable	Not Applicable
Tire Size	195/50 R16	205/45 R17	195/50 R16	205/45 R17	205/45 R17	205/45 R17
N/V Ratio	41.9	40.9	30.5	29.8	40.9	29.8
ETW (lbs)	2750		2750		2750	2875
CW (lbs)	2366 / 2372 *1		2405/ 2412 *1		2467/ 2476 *1	2513/ 2520 *1
GVW (lbs)	2745		2789		2862	2892
Fuel Tank Volume (L)	45.0(including the dead volume) 44.7(excluding the dead volume)					
Canister Working Capacity (g)	95					
Canister Bed Volume	707g (2005.4cc)					
Power (hp) / rpm	181/7000					
Torque (lb-ft) / rpm	151/4000					

*1: For Canada

14. REQUEST FOR CERTIFICATION

Request for Certificate

Test Group: TTKXV02.0FFB
Evaporative/Refueling Family: TTKXR0095GCP

Mazda Motor Corporation requests that EPA/CARB issue a **2026** model year certificate of conformity and Executive Order for the above specified test group and evaporative/refueling family combination more fully described in this application.

This is a 50 States test group request. This combination complies with the following application emission standards:

Federal: low altitude X high altitude X
California: X

This combination meets all certification requirements, and the application is current as of the 27th day of August, 2025.



For
Tomo Ataka
General Manager
Environmental & Safety Engineering Department
Mazda Motor Corporation

17. CALIFORNIA ARB INFORMATION

17-1. California Fill Pipe Specifications

CARB APPLICATION FORM FOR COMPLIANCE WITH THE FILL PIPE REQUIREMENTS

Manufacturer: Mazda Motor Corporation Model Year: 2026MY

Terms and symbols used below are the same as those defined in "Specifications for Fill Pipes and Openings of 2015 and Subsequent Motor Vehicle Fuel Tanks", amended May 31, 2019 (CARB Fill Pipe Spec.) (Refer to ISO-13331-1995(E), as adopted June 1, 1995).

General Specification		ARB Specification	ISO-13331 Reference or Noted Otherwise	Manufacture Specification ¹
				MAZDA MX-5
1	Angle α in degrees	$-10^\circ < \alpha < 20^\circ$	2.8 & 3.4/Fig 2a & 3a	2.83° +0.6°/-0.73°
2	Spill Prevention in degrees (angle btwn. centerline of test spout in its resting position and the horiz. plane).	30° (MIN)	3.5	42.6° +0.7°/-0.6°
3	Test nozzle penetration of restrictor	2.25 cm or 22.5 mm(MIN)	3.4	3.44cm +0.18/-0.18
4	Angle β in degrees	none	2.9/Fig 2b & 3b	-0.59° +0.71/-0.5
Fill Pipe Specification				
1	Fill Pipe face surface in TIR	0.025 cm or 0.25 mm(MAX)	3.1/Fig 1	0.025cm(max)
2a	Fill Pipe face outside diameter: unless meets criteria in 2b. Below	5.75 cm or 57.5 mm(MAX)	3.1/Fig 1	6.00cm +0.05/-0.04 (SAE J1114)
		5.20 cm or 52.0 mm(MIN)	3.1/Fig 1	
2b	Fill Pipe face outside sealing diameter: criteria: new fill pipe head design starting MY 2024	5.79 cm or 57.9 mm(MAX)	3.1/Fig 1	n/a
		5.20 cm or 52.0 mm(MIN)	CARB Fill Pipe Spec.	
3	Internal locking lip in degrees of the inside circumference	100° (MIN)	3.2/Fig 2 and 3	281° ±23
	degrees extending each side of ref. plane	35° (MIN) LS ²	3.2/Fig 2 and 3	81.0° ±6
		RS ²	3.2/Fig 2 and 3	200.0° ±23
4	Height of lip measured from fill pipe inside wall; or	0.25 cm or 2.5 mm(MIN)	3.2	0.32cm ±0.04
	height of lip measured from fill pipe outside wall for outside diameters between 5.20 and 5.75 cm.	0.85 cm or 8.5 mm(MIN)	3.2	
5a	Depth of lip (D) in centimeters	0.4 < D < 1.3	3.2	0.96cm ±0.04
5b	Depth of lip (D) in centimeters: criteria: new fill pipe head design starting MY 2024	0.4 < D < 1.1	CARB Fill Pipe Spec.	n/a
Offset				
	Offset A	none	3.3.1/Fig 5 shown as "f"	0.21cm ±0.02
	Offset B	none	3.3.1/Fig 5 shown as "g"	0
6a	Fill Pipe Face Clearance (Axial): unless meets criteria in 6b. Below	0.25 cm or 2.5 mm (MIN)	Fig 5 shown as "2.5"	2.5mm(min)
6b	Fill Pipe Face Clearance (Axial): criteria: new fill pipe head design starting MY 2024	40 degrees out to 12 mm depth	CARB Fill Pipe Spec.	n/a
7a	Fill Pipe Face Clearance (Radial): unless meets criteria in 7b. Below	≥40 mm	Fig 5 shown as "R40"	40mm(min)
7b	Fill Pipe Face Clearance (Radial): criteria: new fill pipe head design starting MY 2024	≥ 43 mm	CARB Fill Pipe Spec.	n/a
8	Fill Pipe Face Inside Diameter	49.8 mm(MAX)	Fig 1	46.8mm ±0.5
9	Bench Leak Test: Phase in schedule in CARB	2.5 L/Min (MAX) at 500 Pa Vacuum		0.10 L/Min
10	Capped or Capless			Capped
11	Seal (Mechanical or Liquid)			L
12	Disruption in the Fill Pipe Face			none
13	ORVR Design (I / NI / NIRCO / NO) ³			Integrated (I)
14	Type (Threaded or Bayonet)		Fig 1	Threaded
15	Usage of Design (Models or Evaporative Family(s))			TTKXR0095GCP
16	Total vehicle model year sales			For the sales information, please refer to the Common Section "16-5. Projected Sales". Test Group: TTKXV02.0FFB
17	Open Vent or Holes			none
18	New or C/O			C/O
19	Reference number for C/O model			NA1J-42210-A
20	Fill Pipe Drawing Number (if New)			-
21	Fill Pipe Supplier Name (if New)			-

¹: dimension should include adverse tolerance condition

²: LS = Left side of reference plane, RS = Right side of reference plane

³ ORVR Design : Integrated (I)/Non-Integrated(NI)/Non-Integrated Refueling Canister Only (NIRCO)/Non-ORVR(NO)

Item 17 is from ARB's Questionnaire sent to Manufacturers in March, 2015.

For the fill pipe sealing surface shape, pursuant to CCR Title13 S2235 and the referenced requirement "Specifications for Fill Pipes and Openings of 2015 and Subsequent Model Motor Vehicle Fuel Tanks", as adopted by CARB on March 22, 2012, Mazda has elected to comply with the SAE J1114 standard in lieu of section 3.1 of ISO-13331-1995(E) as allowed in "Specifications for Fill Pipes and Openings of 2015 and Subsequent Model Motor Vehicle Fuel Tanks", section III.

17-2. NMOG/NMHC and HCHO/NMHC Ratio

NMOG / NMHC = Calculated with the test fuel (for the FTP test cycle)

NMOG / NMHC = 1.03 (for the HWY, US06 and SC03 test cycles)

17.4 Certification Summary Sheet

2026 MODEL YEAR AIR RESOURCES BOARD CERTIFICATION SUMMARY SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES						E.O. #	
						Page	1/1
Manufacturer	Mazda Motor Corporation				Test Group	TTKXV02.0FFB	
Evap. Family	TTKXR0095GCP	Evap. STD	LEV4 Opt1	LEV4 Opt2	X (FEL:0.300)		
ORVR	Yes	X		No			
Engine Code Types	CA		49S	50S	X		
Vehicle Class(es)-Select all that apply	PC	X	LDT1	LDT2		MDV1	
	MDV2		MDV3	MDV4			
LEV4 Pooling Option							
FTP NMOG+NOx	Option1		Option2	X			
Evap	Option1		Option2	X	N/A		
Exhaust Std	LEV4 ULEV125	X	LEV4 ULEV70		LEV4 ULEV60		LEV4 ULEV50
	LEV4 ULEV40		LEV4 SULEV30		LEV4 SULEV20		LEV4 SULEV15
	U.S. EPA		Tier3 Bin125				
SFTP Std	LEV4		LEV4(INTERIM CERT US06)	X			
	U.S. EPA		Tier3 Bin125				
Exhaust Useful Life	120K	X(Cold NMHC Only)		150K		X	
Evap Useful Life	120K			150K		X	
FTP interim in-use Std	PM		QUICK-DRIVE AWAY		QUICK-DRIVE AWAY&PM		NOT APPLICABLE X
SFTP interim in-use Std	NMOG+NOx(US06)		PM(US06)		NMOG+NOx AND PM(US06)		NOT APPLICABLE X
Fuel Usage	Dedicated	X	Flex-Fuel		Dual-Fuel		Bi-Fuel
Fuel Type(s)	Gasoline	X	CNG		M85		Diesel
	LPG		E85		Electricity		Other (specify)
Exh Emission Test Fuel	Cert Ph2		Tier2 Unleaded		E10-CARB		E10-EPA X
	E85-CARB		E85-EPA		Diesel		Other (specify)
NMOG Test Proc	Std	X	Equip		N/A		
Ratios (NMOG w/o RAF)	NMOG/NMHC(FTP)	calculated with the test fuel		NMOG/NMHC(HWY_US06_SC03)	1.03		HCHO/NMHC
E10 Evap	Measured			x1.08 factor	X		
Durability Service Accumulation	Whole-Veh Full Mi		Whole-Veh Accel Mi		Mfr Bench		X
	Other						
Evap Emis Test Proc	CA	X		FED			
R/L Test Proc	SHED			Pt Source		X	
Exhaust ECS (Use abbreviations per SAE J1930)	1. TWC/WU-TWC/HO2S/WR-HO2S/DFI						
	2.						
Engine Configuration				Valves per cylinder	4		
Displacement (Liters)	1. 2.0L			Rated HP/RPM	1. 181/7000		
	2.				2.		
Engine location	Front	X	Mid		Rear		
Drive	FWD		RWD	X	4WD-FT		4WD-PT

Contents	Sect/Page #	Contents	Sect/Page #
1 Authorized Representative	1-1	22 Gen Std, Increase in Emis, Safety Meets all Reqmts	8
2 Fuel Specification	-	23 Driveability Statements	8
3 Test Equipment	-	24 Adjustable Parameters	12
4 Test procedure	12-2-1	25 Tamper Resistance Method(s)	-
5 Mileage Accumulation Route	16-2	26 Fill Pipe Specifications	17-1
6 Emission Warranty Statement	17-3	27 High Altitude Compliance	8
7 Maint - Cert/Req'd/Recm'	-	28 OBD Sys Incl Marked Revisions	16-3
8 Emiss Label/Vac Hose Dia	17-6	29 I & M Test Procedure & Data	8
9 Evap Control System	6, 12-1	30 50 Degree F Compliance	16-5
10 Engine Parameters	6, 12-1	31 Manufacturer's RAF	-
11 Fuel System	6	32 Phase-In Schedule	16-5
12 Ignition System	6, Part II	33 NMOG Fleet Average Calculation	16-5
13 Exhaust Control System	6, 12-1	34 AB965 Credits/Withdrawals	-
14 Proj Sales (LDV/MDV Split)	13-1	35 EPA certificate	-
15 Vehicle Description	12-1	36 Equip NMOG Proc--ARB Approval	N/A
16 Evap Bench Test Procedure	16-2		
17 R/L Temp & Press Profiles	12-2-4		
18 EDV Selection			
19 Prod Veh same as Test Veh	8		
20 Emission Label Durability	8		
21 Test Vehicle Information	DDV (EM)	DDV (Evap)	EDV (EM)
	EDV (50° F)	EDV (Evap)	
C/O or C/A MY & ID	2018MY 8DBPEU31-018	2019MY 9DBPYUDS1-001 9DBPYUDS1-002	2018MY 8EBPEU31-020
			2018MY 8EBPEUS2-046
			2020MY 0EBPEPUS1-008
Vehicle Log Page (s)	-	-	-
Zero Mile Book Page (s)	N/A	N/A	N/A
Maint Logs & Engr Eval	-	-	-

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test Wt.	DPA or RLHP
9PEPU3AAA(50ST)*1	MAZDA MX-5 2.0L Soft Top	M6	2750	n/a
9PEPU3AAB(50ST)*1	MAZDA MX-5 2.0L RHT	M6	2750	n/a
0PEPUSAAA(50ST)	MAZDA MX-5 2.0L Soft Top	S6	2750	n/a
4PEPUSAAA(50ST)	MAZDA MX-5 2.0L RHT	S6	2875	n/a

*1 with Shift Indicator Light

50°F
Test Vehicle ID:8EBPEUS2-046(conducted by development vehicle)

High Altitude NMOG+NOx
Test Vehicle ID:8EBPEUS3-047(conducted by development vehicle)

Air Pollutant	NMOG+NOx (g/mi)	CO (g/mi)
4K CERT	0.069	0.5
4K STD	0.250	2.1

Air Pollutant	NMOG+NOx (g/mi)
UL CERT	0.060
UL STD	0.160

Detailed information for certification is also submitted by E-Cert.

17-5. Fuel Evaporative Emission Results

Evaporative Canister Bleed Test : 0.010 (g/test)
Emission Standard : 0.020 (g/test)

19. REVISIONS

No.	Date	Pages Affected	Description
-	8/27/2025	-	Issued.