



19th September 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-25/153

Dear Mr. William Ott:

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

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

Carline	Test Group	Evap./Refueling Family	Standard	EPA Test
MAZDA CX-5 2.5L w/o cylinder deactivation	TTKXT02.5CDJ	TTKXR0117GCQ	Federal Tier3-Bin30 California LEV IV-SULEV30	(EDV)Waived (FEDV)2025/10/30

We would appreciate your cooperation in the issue of your certificate of conformity for our 2026MY Trucks 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:

TTKXGPGNNVB7

Evap. Family:

TTKXR0117GCQ

Test Group:

TTKXT02.5CDJ

Durability Group Description:

Otto Cycle, Four Stroke, Piston, Gasoline Fueled, Direct Fuel Injection,
Catalyst Code: Warm-up; PYEW, Underfloor; PYFA

Test Group Description:

2.5 Liter, I4 Engine w/o cylinder deactivation, LDT

Applicable Standards:

Federal: Tier3-Bin30

California: LEV IV-SULEV30

Carlines Covered:

MAZDA CX-5 4WD

Vehicles Tested:

Vehicle ID	config.	test procedure	test purpose	test number
6EBPYUG8-031	2	FTP – 2day(25)	EM	TTKX10092142
6EBPYUG8-031	2	HWY(3)	EM	TTKX10092131
6EBPYUG8-031	2	US06(90)	EM	TTKX10092141
6EBPYUG8-031	2	SC03(95)	EM	TTKX10092137
6EBPYUG8-031	2	COLD-FTP(11)	EM	TTKX10092132
6EBPYUG8-031	2	Partial Soak (PS) - 10 minute(57)	EM	TTKX10092136
6EBPYUG8-031	2	Partial Soak (PS) - 40 minute(58)	EM	TTKX10092135
6EBPYUG8-031	2	Partial Soak (PS) - 3 to 12 hour(59)	EM	TTKX10092134
6EBPYUG8-031	2	Quick-Driveway (QD)(49)	EM	TTKX10092133
6EBPYUG8-031	2	EVAP-3DAY(38)	Evap	TTKX10092128
6EBPYUG8-031	2	EVAP-RL(37)	Evap	TTKX10092129
6EBPYUG8-031	2	ORVR(24)	Evap	TTKX10092139
7EFPYS1-032	0	EVAP CANISTER BLEED TEST(65)	Evap	HTKX10045490

EPA Response Requested by: November 18, 2025

CARB Response Requested by: November 18, 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

INDEX

For Mazda Models
except for MAZDA CX-50 2.5L Hybrid

For MAZDA CX-50 2.5L Hybrid

		Mazda's Common Section	Mazda's Individual test group's application	Mazda's Common Section	Mazda's Individual test group's application	Toyota's application
PART I						
1	Correspondence and Communications					
1-1	Liaison Information	x		x		
1-2	Certificate Information	x		x		
2	Durability Group Description					
2-1	Description of Durability Group determined per §86.1820-01	x		x		
2-2	Format of Durability Group Name	x		x		
2-3	List of Equivalency Factors	x		x		
2-4	Durability Vehicle Number and the Configuration Number	x		x		
3	Evaporative/Refueling Family Description					
3-1	Description of Evaporative/Refueling Family per §86.1821-01	x		x		
3-2	Format of Evaporative/Refueling Family Name	x		x		
3-3	Durability Vehicle Number and the Configuration Number	x		x		
4	Durability Test Procedure Description					
4-1	Description of Durability Test Procedure for Exhaust Emission	x				x
4-2	Description of Durability Test Procedure for Evaporative Emission	x				x
4-3	Description of Durability Test Procedure for Refueling Emission	x				x
4-4	List of DF		x		x	
5	Test Group Description					
5-1	Description of Test Group per §86.1827-01		x		x	
5-2	Format of Test Group Name	x		x		
6	Test Vehicle Description		x		x	
7	Test Results		x		x	
8	Statements of Compliance	x			x	
9	OBD System Description and Approval Letter	x		x		
10	Description of Alternate-Fueled Vehicles	x		x		
11	AECD Descriptions	x		x		x
12	Description of Vehicles Covered by Certificate and Test Parameters					
12-1	Vehicle Parameters		x		x	
12-2	Test Parameters					
12-2-1	Test Procedure	x				x
12-2-2	Shift Schedules	x		x		
12-2-3	Dyno Loading Information	x		x		
12-2-4	Evaporative Testing Parameters	x		x		
13	Projected Sales					
13-1	Projected Sales	x		x		
13-2	Final Sales (Final)	x		x		
14	Request for Certification		x		x	
15	Other Information					
15-1	Engine Oil Information	x		x		
15-2	Fee Filing Form	x		x		
15-3	Advanced Technology Systems for CO2 and Fuel Economy Performance	x		x		
15-4	Battery Performance Determination for PHEVs and EVs	x		x		
15-5	Fuel Fired Heater	x		x		
16	Confidential Information	x		x		x
17	California ARB Information					
17-1	California Fill Pipe Specifications		x		x	
17-2	NMOG/NMHC and HCHO/NMHC ratio		x		x	
17-3	California Warranty Statement	x		x		
17-4	Certification Summary Sheet		x		x	
17-5	Fuel Evaporative Emission Results		x		x	
17-6	Vehicle Emission Control Information Label	x		x		
17-7	Battery Label	x		x		
17-8	Scheduled Maintenance	x		x		
17-9	Identification and Description for Plug-in Hybrid required by 1962.4 (2)	x				
18	Information on Service of Process	x		x		
19	Revisions	x	x	x	x	
PART II						
1	Part Numbers	x		x		
2	Calibration Information	x		x		
3	Description of Vehicles Covered by Certificate and Test Parameters	x		x		
4	Final Sales (Final)	x		x		
5	Service Manuals and Service Bulletins	x		x		

4. DURABILITY TEST PROCEDURE DESCRIPTION

4-4. List of DF

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 CX-5 4WD
Test Group Name	TTKXT02.5CDJ
Engine Displacements Covered	2.5L
Arrangement and Number of Cylinders	I4
Vehicle Class(es) Covered	LDT
Emission Standards Class	Federal: Tier3-Bin30 California: LEV IV-SULEV30
Applicable Emission Standards	Refer to section 6&7 of this application document.

6&7. TEST VEHICLE DESCRIPTION & TEST RESULTS

- Exhaust Emission Test Results

2026MY MAZDA CX-5 4WD 2.5L w/o cylinder deactivation(CD) for this Test Group TTKXT02.5CDJ is a new model in terms of exhaust emission system.

Exhaust durability test results are carried across from 2026MY MAZDA CX-50 4WD 2.5L w/o CD.

MAZDA CX-5 4WD 2.5L w/o CD and MAZDA CX-50 4WD 2.5L w/o CD for the Test Group TTKXT02.5CDK share the same exhaust emission control system in terms of exhaust emission durability. In that 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 for the 225/60R18 tire with CX-50 4WD is larger than those for the CX-5's based on the Road Load Horsepower. Therefore, we selected it as the worst case.

Exhaust emission tests are conducted with 2026MY MAZDA CX-5 w/o CD for this Test Group TTKXT02.5CDJ, itself.

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 for the P225/55 R19 tire with CX-5 4WD is larger than those for the P225/65 R17 tire with CX-5 4WD based on the Road Load Horsepower. Therefore, we selected it as the worst case.

Carline	MAZDA CX-50 4WD			MAZDA CX-5 4WD	
Engine Displacement (liter)	2.5 w/o CD			2.5 w/o CD	
Catalyst	warm-up and underfloor catalysts			warm-up and underfloor catalysts	
ETW (lbs)	4000			4250	
Transmission	S6 4WD			S6 4WD	
Tire	225/65 R17	225/60R18	245/45 R20	P225/65 R17	P225/55 R19
Road Load Horsepower (hp)	13.5	14.614	14.612	13.2	13.4
Emission Durability Data Vehicle	X (26MY)				
Emission Data Vehicle					X

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

- Evaporative Emission Test Results

2026MY MAZDA CX-5 4WD 2.5L w/o CD is a new model in terms of evaporative emission system.

Evaporative durability tests are conducted with 2017MY MAZDA CX-5 4WD 2.5L w/o CD. 2026MY MAZDA CX-5 4WD 2.5L w/o CD and 2017MY MAZDA CX-5 4WD 2.5L w/o CD share the same evaporative emission system. Mazda has determined that there is no change in terms of its evaporative durability performance since 2017MY. In that case Mazda has used its good engineering judgment to determine the worst case based on the amount of the heat generation. Larger heat generation results in higher evaporative emission generation because the heat is absorbed by the fuel tank. Mazda has determined that the amount of heat generation for the P225/55 R19 with 2017MY MAZDA CX-5 4WD 2.5L w/o CD is the largest based on the Road Load Horsepower. Therefore, we selected it as the worst case.

Evaporative emission test results are conducted with 2026MY MAZDA CX-5 w/o CD for this Test Group TTKXT02.5CDJ, itself. Mazda has determined that the amount of exhaust gas volume for the P225/55 R19 tire with CX-5 4WD is larger than those for the P225/65 R17 tire with CX-5 4WD based on the Road Load Horsepower. Therefore, we selected it as the worst case.

Carline	MAZDA CX-5 4WD		MAZDA CX-5 4WD	
Engine Displacement (liter)	2.5 w/o CD		2.5 w/o CD	
Catalyst	warm-up and underfloor catalysts		warm-up and underfloor catalysts	
ETW (lbs)	4250		4000	
Transmission	S6 4WD		S6 4WD	
Tire	P225/65 R17	P225/55 R19	P225/65 R17	P225/55 R19
Road Load Horsepower (hp)	13.2	13.4	14.2	14.1 14.8*
Evaporative Emission Durability Data Vehicle				X(2017MY)
Evaporative Emission Data Vehicle		X		

*: for 2017MY Evaporative Emission Durability testing

Manufacturer	Mazda Motor Corporation	Manufacturer Code	TKX
Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	09/07/2025 07:49:06 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	LDT2
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	TTKXGPGNNVB7	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	TTKXT02.5CDJ
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	2026MY MAZDA CX-5 2.5L w/o cylinder deactivation selected as OBD demonstration vehicle is indicated.		
Mfr Test Group Comments	Durability group equivalency factor = ABC/SRC. Federal SFTP Composite NMOG+NOx Certification Levels The test group has individual DFs for FTP/SC03 and US06. Composite values are not calculated correctly in the EV-CIS since only the FTP DFs are applied for the calculation. The correct values are as follows: NMOG+NOx Composite: 0.018		
Mfr Exhaust / Evap Standards Comments	--		

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	07/21/2025 02:55:54 AM				
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)	117	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	56 - CX-5 4WD	California + CAA Section 177 states	4-Wheel Drive	Semi-Automatic	6	Yes
Mazda Motor Corporation	1 - MAZDA	56 - CX-5 4WD	Federal	4-Wheel Drive	Semi-Automatic	6	Yes
Engine Description							
Hybrid Type	--			Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition			Mfr Engine Description	--		
Engine Block Arrangement	Inline			Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No			Oil Viscosity/Classification	GF-6 0W-20		
Number of Cylinders/Rotors	4			Mechanically Variable Compression Ratio Indicator	N		

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
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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	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)	2.5	Engine Rated Horsepower	187
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 oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated air fuel	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	TTKX10092142	TTKX10092141	TTKX10092137	TTKX10092132	TTKX10092131	21.7	20.3	26.8	25.1	--	

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ						
Emission Data Vehicle Information									
Vehicle ID / Configuration	6EBPYUG8-031 / 2	Manufacturer Vehicle Configuration Number	2						
Original Test Group Name	TTKXT02.5CDJ	Original Evaporative/Refueling Family	TTKXR0117GCQ						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	MAZDA	Represented Test Vehicle Model	MAZDA CX-5						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	6PYUGCAA	Rated Horsepower	187						
Displacement (liters)	2.5								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Equipped, not shifted by SIL	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3856	Equivalent Test Weight (pounds)	4250						
GVWR (lbs)	4914	N/V Ratio	33.3						
Axle Ratio	4.62								
Transmission Type	Automatic	# of Transmission Gears	6						
Transmission Lockup	Yes	Creep Gear	No						

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
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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	33.422	0.16021	0.023498	15.225	0.09895	0.022343	13.4
Cold CO	37.136	0.17801	0.026108	14.765	0.03433	0.024597	N/A
US06	33.422	0.16021	0.023498	15.225	0.09895	0.022343	N/A

Emission Control Device Comments--

Manufacturer Test Vehicle Comments26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092132	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	08/01/2025	Fuel	Gasoline
Fuel Batch ID	2506CX	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2621	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																																																																																	
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>421.815</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.91063</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>20.6254</td><td>20.6254</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0258129</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.1620373</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>374.686</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.00829</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>23.3191</td><td>23.3191</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0004404</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>306.979</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.00167</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>28.4849</td><td>28.4849</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0017168</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0000214</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0060498</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1935</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.9207648</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.1276698</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.6630619</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>23.8663</td><td>23.8663</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0074125</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0001376</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.030571</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.033591</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.03634</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	421.815	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.91063	--	FE BAG 1 (Bag 1 Fuel Economy)	20.6254	20.6254	CH4 BAG 1 (Bag 1 Methane)	0.0258129	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1620373	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	374.686	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.00829	--	FE BAG 2 (Bag 2 Fuel Economy)	23.3191	23.3191	CH4 BAG 2 (Bag 2 Methane)	0.0004404	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	306.979	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.00167	--	FE BAG 3 (Bag 3 Fuel Economy)	28.4849	28.4849	CH4 BAG 3 (Bag 3 Methane)	0.0017168	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0000214	--	METHANE (CH4 - Methane)	0.0060498	--	CO (Carbon Monoxide)	0.1935	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.9207648	--	DT-EER (Drive Trace Energy Economy Rating)	0.1276698	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.6630619	--	MFR FE (Manufacturer Fuel Economy)	23.8663	23.8663	NOX (Nitrogen Oxide)	0.0074125	--	N2O (Nitrous Oxide)	0.0001376	--	HC-NM (Non-methane Hydrocarbon)	0.030571	--	NMOG (Non-methane organic gases)	0.033591	--	HC-TOTAL (Total Hydrocarbon)	0.03634	--		
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Test Group		TTKXT02.5CDJ				Evaporative/Refueling Family				TTKXR0117GCQ		
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 30	CO	0.19	--	--	--	0.04	--	0.2	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.03	--	--	--	0.00	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-IV SULEV30	CO	0.19	--	--	--	0.04	--	0.2	12.5	Pass
CA	120,000 miles	California LEV-IV SULEV30	HC-NM	0.03	--	--	--	0.00	--	0.0	0.3	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092133	Test Procedure	49 - Quick-Driveway (QD)
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/18/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2438	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																																																																																	
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>333.688</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.40022</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>26.2682</td><td>26.2682</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0059031</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0446836</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>342.322</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.01686</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>25.7115</td><td>25.7115</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.000332</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>286.788</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.02398</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>30.6379</td><td>30.6379</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0012796</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.001748</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.09834</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.2241632</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.111997</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.2885602</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>27.0431</td><td>27.0431</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0072309</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0002104</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0084499</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.009269</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.009923</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	333.688	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.40022	--	FE BAG 1 (Bag 1 Fuel Economy)	26.2682	26.2682	CH4 BAG 1 (Bag 1 Methane)	0.0059031	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0446836	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	342.322	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.01686	--	FE BAG 2 (Bag 2 Fuel Economy)	25.7115	25.7115	CH4 BAG 2 (Bag 2 Methane)	0.000332	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	286.788	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.02398	--	FE BAG 3 (Bag 3 Fuel Economy)	30.6379	30.6379	CH4 BAG 3 (Bag 3 Methane)	0.0012796	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.001748	--	CO (Carbon Monoxide)	0.09834	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2241632	--	DT-EER (Drive Trace Energy Economy Rating)	-0.111997	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.2885602	--	MFR FE (Manufacturer Fuel Economy)	27.0431	27.0431	NOX (Nitrogen Oxide)	0.0072309	--	N2O (Nitrous Oxide)	0.0002104	--	HC-NM (Non-methane Hydrocarbon)	0.0084499	--	NMOG (Non-methane organic gases)	0.009269	--	HC-TOTAL (Total Hydrocarbon)	0.009923	--		
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Test Group		TTKXT02.5CDJ				Evaporative/Refueling Family				TTKXR0117GCQ		
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 SULEV30	NMOG	0.0093	--	--	--	0.0046	--	0.014	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0165	--	--	--	--	--	0.026	0.042	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0072	--	--	--	0.0044	--	0.012	99.999	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092134	Test Procedure	59 - Partial Soak (PS) - 3 to 12 hour
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/16/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2401	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																																																																																
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	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--																																																																																
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	286.788	--																																																																																
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.02398	--																																																																																
	FE BAG 3 (Bag 3 Fuel Economy)	30.6379	30.6379																																																																																
	CH4 BAG 3 (Bag 3 Methane)	0.0012796	--																																																																																
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--																																																																																
	METHANE (CH4 - Methane)	0.0016007	--																																																																																
	CO (Carbon Monoxide)	0.05119	--																																																																																
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.9207637	--																																																																																
	DT-EER (Drive Trace Energy Economy Rating)	-0.4043681	--																																																																																
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.6643447	--																																																																																
	MFR FE (Manufacturer Fuel Economy)	27.4729	27.4729																																																																																
	NOX (Nitrogen Oxide)	0.0065965	--																																																																																
	N2O (Nitrous Oxide)	0.0002249	--																																																																																
	HC-NM (Non-methane Hydrocarbon)	0.0052478	--																																																																																
	NMOG (Non-methane organic gases)	0.0057565	--																																																																																
	HC-TOTAL (Total Hydrocarbon)	0.00658	--																																																																																
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>319.86</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	319.86	--																																																																											
	Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																																
	Carbon dioxide	319.86	--																																																																																
	Manufacturer Test Comments	26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM																																																																																	

Test Group		TTKXT02.5CDJ				Evaporative/Refueling Family				TTKXR0117GCQ		
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 SULEV30	NMOG	0.0058	--	--	--	0.0045	--	0.010	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0124	--	--	--	--	--	0.021	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0066	--	--	--	0.0044	--	0.011	99.999	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092135	Test Procedure	58 - Partial Soak (PS) - 40 minute
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/16/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2397	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																																																																																	
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>298.834</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.0256</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>29.404</td><td>29.404</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0036404</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0072386</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>342.322</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.01686</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>25.7115</td><td>25.7115</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.000332</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>286.788</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.02398</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>30.6379</td><td>30.6379</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0012796</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0012787</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.02063</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.017852</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.2526938</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.8376877</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>27.651</td><td>27.651</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0060549</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0001619</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0013689</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0015016</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.002397</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	298.834	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.0256	--	FE BAG 1 (Bag 1 Fuel Economy)	29.404	29.404	CH4 BAG 1 (Bag 1 Methane)	0.0036404	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0072386	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	342.322	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.01686	--	FE BAG 2 (Bag 2 Fuel Economy)	25.7115	25.7115	CH4 BAG 2 (Bag 2 Methane)	0.000332	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	286.788	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.02398	--	FE BAG 3 (Bag 3 Fuel Economy)	30.6379	30.6379	CH4 BAG 3 (Bag 3 Methane)	0.0012796	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.0012787	--	CO (Carbon Monoxide)	0.02063	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.017852	--	DT-EER (Drive Trace Energy Economy Rating)	-0.2526938	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.8376877	--	MFR FE (Manufacturer Fuel Economy)	27.651	27.651	NOX (Nitrogen Oxide)	0.0060549	--	N2O (Nitrous Oxide)	0.0001619	--	HC-NM (Non-methane Hydrocarbon)	0.0013689	--	NMOG (Non-methane organic gases)	0.0015016	--	HC-TOTAL (Total Hydrocarbon)	0.002397	--		
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																																	
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Manufacturer Test Comments	26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM																																																																																			

Test Group		TTKXT02.5CDJ			Evaporative/Refueling Family					TTKXR0117GCQ		
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 SULEV30	NMOG	0.0015	--	--	--	0.0022	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0076	--	--	--	--	--	0.013	0.023	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0061	--	--	--	0.0030	--	0.009	99.999	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092136	Test Procedure	57 - Partial Soak (PS) - 10 minute
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/16/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2393	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																																																																																
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>291.886</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.00474</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>30.1166</td><td>30.1166</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0013151</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>342.322</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.01686</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>25.7115</td><td>25.7115</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.000332</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>286.788</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.02398</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>30.6379</td><td>30.6379</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0012796</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0007962</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0163</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.093775</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.3251493</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.0398274</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>27.7388</td><td>27.7388</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0063405</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.000066</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.000535</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	291.886	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.00474	--	FE BAG 1 (Bag 1 Fuel Economy)	30.1166	30.1166	CH4 BAG 1 (Bag 1 Methane)	0.0013151	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	342.322	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.01686	--	FE BAG 2 (Bag 2 Fuel Economy)	25.7115	25.7115	CH4 BAG 2 (Bag 2 Methane)	0.000332	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	286.788	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.02398	--	FE BAG 3 (Bag 3 Fuel Economy)	30.6379	30.6379	CH4 BAG 3 (Bag 3 Methane)	0.0012796	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.0007962	--	CO (Carbon Monoxide)	0.0163	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.093775	--	DT-EER (Drive Trace Energy Economy Rating)	-0.3251493	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.0398274	--	MFR FE (Manufacturer Fuel Economy)	27.7388	27.7388	NOX (Nitrogen Oxide)	0.0063405	--	N2O (Nitrous Oxide)	0.000066	--	HC-NM (Non-methane Hydrocarbon)	0	--	NMOG (Non-methane organic gases)	0	--	HC-TOTAL (Total Hydrocarbon)	0.000535	--	
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																																
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>316.608</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	316.608	--																																																																											
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Manufacturer Test Comments	26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM																																																																																		

Test Group		TTKXT02.5CDJ				Evaporative/Refueling Family				TTKXR0117GCQ		
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 SULEV30	NMOG	0.0000	--	--	--	0.0005	--	0.000	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0063	--	--	--	--	--	0.009	0.015	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0063	--	--	--	0.0025	--	0.009	99.999	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092142	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/16/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2382	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																																																																																									
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>341.476</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.62406</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>25.7086</td><td>25.7086</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0056948</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0257174</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>342.322</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.01686</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>25.7115</td><td>25.7115</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.000332</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>286.788</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.02398</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>30.6379</td><td>30.6379</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0012796</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0017045</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.14473</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.0823804</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.3171316</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.9119958</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>26.8736</td><td>26.8736</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0065874</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0000689</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0048619</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0053332</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0000518</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.006294</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	341.476	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.62406	--	FE BAG 1 (Bag 1 Fuel Economy)	25.7086	25.7086	CH4 BAG 1 (Bag 1 Methane)	0.0056948	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0257174	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	342.322	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.01686	--	FE BAG 2 (Bag 2 Fuel Economy)	25.7115	25.7115	CH4 BAG 2 (Bag 2 Methane)	0.000332	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	286.788	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.02398	--	FE BAG 3 (Bag 3 Fuel Economy)	30.6379	30.6379	CH4 BAG 3 (Bag 3 Methane)	0.0012796	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.0017045	--	CO (Carbon Monoxide)	0.14473	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.0823804	--	DT-EER (Drive Trace Energy Economy Rating)	-0.3171316	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.9119958	--	MFR FE (Manufacturer Fuel Economy)	26.8736	26.8736	NOX (Nitrogen Oxide)	0.0065874	--	N2O (Nitrous Oxide)	0.0000689	--	HC-NM (Non-methane Hydrocarbon)	0.0048619	--	NMOG (Non-methane organic gases)	0.0053332	--	PM (Particulate Matter)	0.0000518	--	HC-TOTAL (Total Hydrocarbon)	0.006294	--	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>327.2373269</td><td>327</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	327.2373269	327
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																																									
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Manufacturer Test Comments26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM																																																																																												

Test Group		TTKXT02.5CDJ			Evaporative/Refueling Family					TTKXR0117GCQ		
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 30	CREE	327	--	--	--	0	--	327	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0017	--	--	--	0.0030	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0001	--	--	--	0.0004	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.14	--	--	--	0.13	--	0.3	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.23	--	--	--	0.10	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0053	--	--	--	0.0046	--	0.010	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0119	--	--	--	--	--	0.021	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0210	--	--	--	0	--	0.021	0.040	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0066	--	--	--	0.0044	--	0.011	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0001	--	--	--	0.0000	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.14	--	--	--	0.13	--	0.3	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	METHANE	0.0017	--	--	--	0.0030	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	N2O	0.0001	--	--	--	0.0004	--	0.000	0.010	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0053	--	--	--	0.0046	--	0.010	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0119	--	--	--	--	--	0.021	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0066	--	--	--	0.0044	--	0.011	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0001	--	--	--	0.0000	--	0.000	0.001	Pass

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

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092131	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/18/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2442	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0001648	--
CO (Carbon Monoxide)	0.03013	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.8382801	--
DT-EER (Drive Trace Energy Economy Rating)	0.089665	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.7058622	--
MFR FE (Manufacturer Fuel Economy)	37.2558	37.2558
NOX (Nitrogen Oxide)	0.0023186	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	236.0472798	236

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	236.024	--

Manufacturer Test Comments

26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM

Test Group		TTKXT02.5CDJ				Evaporative/Refueling Family				TTKXR0117GCQ		
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 30	CREE	236	--	--	--	0	--	236	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	1.03	--	0.0046	--	0.005	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0023	--	1.03	--	--	--	0.011	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0023	--	--	--	0.0044	--	0.007	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0000	--	1.03	--	0.0046	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0023	--	1.03	--	--	--	0.011	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0023	--	--	--	0.0044	--	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	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																											
Test #	TTKX10092128	Test Procedure	38 - CA fuel 3-day evap.																											
Exhaust Test # for this Evap Test	TTKX10092126	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline																											
Test Date	08/21/2025	Fuel	Gasoline																											
Fuel Batch ID	2521L4	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	2703	Odometer Units	M																											
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																											
State of Charge Delta	--																													
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																											
Test Results																														
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.2598602</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2598602	--																					
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																												
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2598602	--																												
Manufacturer Test Comments26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 3Day-Evap EM																														
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.2599</td><td>0.0000</td><td>0.260</td><td>0.400</td><td>Pass</td></tr><tr><td>CA</td><td>150,000 miles</td><td>California LEV-IV Zero Evap (Option 2)</td><td>HC-TOTAL-EQUIV</td><td>0.2599</td><td>0.0000</td><td>0.260</td><td>0.400</td><td>Pass</td></tr></table>				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	0.2599	0.0000	0.260	0.400	Pass	CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2599	0.0000	0.260	0.400	Pass
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	0.2599	0.0000	0.260	0.400	Pass																						
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2599	0.0000	0.260	0.400	Pass																						

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
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Test #	TTKX10092129	Test Procedure	37 - California Fuel Running Loss
Exhaust Test # for this Evap Test	TTKX10092126	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	08/21/2025	Fuel	Gasoline
Fuel Batch ID	2521L4	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	2686	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0002182	--

Manufacturer Test Comments

26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 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	0.01	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
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Test #	TTKX10092139	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	TTKX10092125	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/08/2025	Fuel	Gasoline
Fuel Batch ID	2501T3	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	--		
Test Start Odometer Reading	2668	Odometer Units	M
4WD Test Dyno	No	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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC (Hydrocarbon for Running Loss and ORVR)	0.0029712	--

Manufacturer Test Comments

26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 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	0.003	0.009	0.01	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.003	0.009	0.01	0.20	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092141	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/16/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2404	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ																																																																								
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>503.62</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.11708</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>17.4412</td><td>17.4412</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0022624</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.007323</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>304.516</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.13282</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>28.8125</td><td>28.8125</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0013458</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0038068</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0015484</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.12934</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.0672761</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.1204446</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.3202333</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>25.1819</td><td>25.1819</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0133667</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.000075</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0044501</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0045836</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0007655</td><td>--</td></tr><tr><td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td><td>0.0178168</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.005917</td><td>--</td></tr></table>			Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	503.62	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.11708	--	FE BAG 1 (Bag 1 Fuel Economy)	17.4412	17.4412	CH4 BAG 1 (Bag 1 Methane)	0.0022624	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.007323	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	304.516	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.13282	--	FE BAG 2 (Bag 2 Fuel Economy)	28.8125	28.8125	CH4 BAG 2 (Bag 2 Methane)	0.0013458	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0038068	--	METHANE (CH4 - Methane)	0.0015484	--	CO (Carbon Monoxide)	0.12934	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0672761	--	DT-EER (Drive Trace Energy Economy Rating)	-0.1204446	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3202333	--	MFR FE (Manufacturer Fuel Economy)	25.1819	25.1819	NOX (Nitrogen Oxide)	0.0133667	--	N2O (Nitrous Oxide)	0.000075	--	HC-NM (Non-methane Hydrocarbon)	0.0044501	--	NMOG (Non-methane organic gases)	0.0045836	--	PM (Particulate Matter)	0.0007655	--	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0178168	--	HC-TOTAL (Total Hydrocarbon)	0.005917	--
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Manufacturer Test Comments	26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM																																																																										

Certification Summary Information Report

Test Group		TTKXT02.5CDJ				Evaporative/Refueling Family				TTKXR0117GCQ		
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	0.0008	--	--	--	0.0001	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.13	--	--	--	0.03	--	0.2	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0046	--	1.03	--	0.0000	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0180	--	1.03	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0134	--	--	--	0.0000	--	0.013	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0008	--	--	--	0.0001	--	0.001	0.006	Pass

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Test #	TTKX10092137	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline
Test Date	07/17/2025	Fuel	Gasoline
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Mazda Miyoshi Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2424	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0015844	--
CO (Carbon Monoxide)	0.05411	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4072106	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0194044	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.1160363	--
MFR FE (Manufacturer Fuel Economy)	24.022	24.022
NOX (Nitrogen Oxide)	0.0070265	--
N2O (Nitrous Oxide)	0.0000809	--
HC-NM (Non-methane Hydrocarbon)	0.0005272	--
NMOG (Non-methane organic gases)	0.000543	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0075537	--
HC-TOTAL (Total Hydrocarbon)	0.002095	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	366.354	--

Manufacturer Test Comments

26MY MAZDA CX-5 2.5L w/o cylinder deactivation 4WD ETW 4250 S6 225/55 R19 2 EM

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
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Emission Data Vehicle Information

Vehicle ID / Configuration	7EFPYS1-032 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	HTKXT02.5FNM	Original Evaporative/Refueling Family	HTKXR0117GCQ
Original Test Vehicle Model Year	2017		
Vehicle Model			
Represented Test Vehicle Make	MAZDA	Represented Test Vehicle Model	CX-5

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	0.993
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	7PYSFAM	Rated Horsepower	187
Displacement (liters)	2.5		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3527	Equivalent Test Weight (pounds)	3875
GVWR (lbs)	4515	N/V Ratio	31.5
Axle Ratio	4.33		
Transmission Type	Automatic	# of Transmission Gears	6
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	29.645	0.25247	0.023253	6.182	0.23639	0.021997	13.4
US06	29.645	0.25247	0.023253	6.182	0.23639	0.021997	N/A

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	17MY CX-5 2.5L 2WD ETW 3875 S6 P225/65 R17 0 Federal FE								
Test #	HTKX10045490	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	08/08/2016	Fuel	Gasoline						
Fuel Batch ID	1607G3	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									
<table border="1"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0141</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL (Total Hydrocarbon)	0.0141	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL (Total Hydrocarbon)	0.0141	--							
Manufacturer Test Comments									
17MY CX-5 2.5L 2WD P225/65 R17 LEV3 SULEV30 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	0.0141	0.0000	0.014	0.020	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0141	0.0000	0.014	0.020	Pass	

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Fuel Properties			
Fuel Batch ID	2520L4	Fuel Calibration Number	1
Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline	Fuel Batch Calibration Date	03/27/2024
Fuel Batch Calibration Effective Date	07/01/2025	Fuel Batch Calibration Ineffective Date	01/31/2026
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 (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17830
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.446	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	2506CX	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	09/02/2021
Fuel Batch Calibration Effective Date	06/16/2025	Fuel Batch Calibration Ineffective Date	12/15/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17828
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.441	Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	2521L4	Fuel Calibration Number	1
Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline	Fuel Batch Calibration Date	03/27/2024
Fuel Batch Calibration Effective Date	08/20/2025	Fuel Batch Calibration Ineffective Date	02/19/2026
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 (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17830
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.446	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	2501T3	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/29/2019
Fuel Batch Calibration Effective Date	08/05/2025	Fuel Batch Calibration Ineffective Date	02/04/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17816
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.413	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	1607G3	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	04/04/2016
Fuel Batch Calibration Effective Date	08/08/2016	Fuel Batch Calibration Ineffective Date	02/07/2017
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 (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17850
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	--

Test Group	TTKXT02.5CDJ	Evaporative/Refueling Family	TTKXR0117GCQ
Consolidated List of Standards			
Exhaust Standards			
Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	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	--	--	--	--	--	--	0	999.9999
120,000 miles	METHANE	--	--	--	--	--	--	0.0030	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0004	0.010
150,000 miles	CO	--	--	--	--	--	--	0.13	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0.10	4.2
150,000 miles	NMOG	--	--	--	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	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	--	--	--	--	--	--	0	999.9999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999

Certification Summary Information Report

PYU5-43

Test Group		TTKXT02.5CDJ			Evaporative/Refueling Family			TTKXR0117GCQ	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			In-Use	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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
150,000 miles	CO	--	--	--	--	--	--	0.13	1.0
150,000 miles	METHANE	--	--	--	--	--	--	0.0030	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0004	0.010
150,000 miles	NMOG	--	--	--	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.002
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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	--	--	--	--	--	--	0.03	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0000	99.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			Partial Soak (PS) - 3 to 12 hour	
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	--	--	--	--	--	--	0.0045	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999

Certification Summary Information Report

PYU5-44

Test Group		TTKXT02.5CDJ			Evaporative/Refueling Family			TTKXR0117GCQ	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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	--	--	--	--	--	--	0.04	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.3

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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
150,000 miles	CO	--	--	--	--	--	--	0.13	1.0
150,000 miles	METHANE	--	--	--	--	--	--	0.0030	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0004	0.010
150,000 miles	NMOG	--	--	--	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.001

Certification Summary Information Report

PYU5-45

Test Group		TTKXT02.5CDJ			Evaporative/Refueling Family			TTKXR0117GCQ	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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	--	--	--	--	--	--	0.13	1.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			In-Use	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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	--	--	--	--	--	--	0.03	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0000	99.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0	0.036
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			Partial Soak (PS) - 40 minute	
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	--	--	--	--	--	--	0.0022	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.023
150,000 miles	NOX	--	--	--	--	--	--	0.0030	99.999

Certification Summary Information Report

Test Group		TTKXT02.5CDJ			Evaporative/Refueling Family			TTKXR0117GCQ	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			Quick-Driveway (QD)	
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	--	--	--	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.042
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			In-Use	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			Quick-Driveway (QD)	
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	--	--	--	--	--	--	0.0046	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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	--	--	--	--	--	--	0.04	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.3
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			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	--	--	--	--	--	--	0.0001	0.006

Test Group	TTKXT02.5CDJ				Evaporative/Refueling Family			TTKXR0117GCQ	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both	
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				Standard Level			California LEV-IV SULEV30	
Fuel	Gasoline				Test Procedure			Partial Soak (PS) - 10 minute	
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	--	--	--	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.015
150,000 miles	NOX	--	--	--	--	--	--	0.0025	99.999

Evaporative/Refueling Standards

Evaporative/Refueling Family		TTKXR0117GCQ		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	--		0.400	0.0000	

Evaporative/Refueling Family		TTKXR0117GCQ		Cert Region		California + CAA Section 177 states					
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)					
Test Procedure		Evap Canister Bleed Test									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL		--		0.020		0.0000	

Evaporative/Refueling Family		TTKXR0117GCQ		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	--		0.20	0.009	

Evaporative/Refueling Family		TTKXR0117GCQ		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		

Certification Summary Information Report

PYU5-48

Test Group		TTKXT02.5CDJ		Evaporative/Refueling Family		TTKXR0117GCQ	
Evaporative/Refueling Family		TTKXR0117GCQ		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	--	0.400	0.0000		
Evaporative/Refueling Family		TTKXR0117GCQ		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		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	0.000		
Evaporative/Refueling Family		TTKXR0117GCQ		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		TTKXR0117GCQ		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	--	0.20	0.009		

Test Group		TTKXT02.5CDJ	Evaporative/Refueling Family		TTKXR0117GCQ
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		TTKXT02.5CDJ		Evaporative/Refueling Family		TTKXR0117GCQ	
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		TTKXT02.5CDJ	Evaporative/Refueling Family		TTKXR0117GCQ
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		

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 :** 6DBPYUG3-014**Vehicle Configuration Number :** 0**Vehicle Configuration Details****Vehicle Description Details****Manufacturer Vehicle Configuration Number :** 0**Test Group Name :** TTKXT02.5CDK**Evaporative Refueling Family Name :** TTKXR0117GDQ**Model Year :** 2026**Actual Test Vehicle Make Text :** MAZDA**Actual Test Vehicle Model Text :** MAZDA CX-50**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 :** 0.981**Correction Sign Identifier :** -**Correction Units Code :** M**Engine Code Text :** 6PYUGBAA**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 :** 3786**Equivalent Test Weight Value :** 4000**Gross Vehicle Weight Rating Value :** 4861**NV Ratio Value :** 31.6**Axle Ratio Value :** 4.37**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 :** US06**Target CoefficientA Value :** 40.958**Target CoefficientB Value :** 0.06682**Target CoefficientC Value :** 0.026124**Set CoefficientA Value :** 18.196**Set CoefficientB Value :** -0.02335**Set CoefficientC Value :** 0.025385**Target Set Coefficient Details****Test Procedure Dynamometer Coefficients Category :** C-H-E**Target CoefficientA Value :** 40.958**Target CoefficientB Value :** 0.06682**Target CoefficientC Value :** 0.026124**Set CoefficientA Value :** 18.196**Set CoefficientB Value :** -0.02335**Set CoefficientC Value :** 0.025385

Manufacturer Comment Text : 26MY MAZDA CX-50 2.5L w/o cylinder deactivation 4WD ETW 4000 S6 225/60 R18 0 Ext DF 4K

EPA Generated Test Vehicle Details

Original Receipt Date : 20250530
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 4323
Loaded Vehicle Weight Value : 4086
Total Road Load Horsepower Value : 14.6

Transaction Status Details

Transaction Status Identifier : ACCEPTED

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 :** 6DBPYUG3-014**Vehicle Configuration Number :** 1**Vehicle Configuration Details****Vehicle Description Details****Manufacturer Vehicle Configuration Number :** 1**Test Group Name :** TTKXT02.5CDK**Evaporative Refueling Family Name :** TTKXR0117GDQ**Model Year :** 2026**Actual Test Vehicle Make Text :** MAZDA**Actual Test Vehicle Model Text :** MAZDA CX-50**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 :** 0.981**Correction Sign Identifier :** -**Correction Units Code :** M**Engine Code Text :** 6PYUGBAA**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 : 3786
Equivalent Test Weight Value : 4000
Gross Vehicle Weight Rating Value : 4861
NV Ratio Value : 31.6
Axle Ratio Value : 4.37

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 : 40.958
Target CoefficientB Value : 0.06682
Target CoefficientC Value : 0.026124
Set CoefficientA Value : 18.937
Set CoefficientB Value : -0.00493
Set CoefficientC Value : 0.025152

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 40.958
Target CoefficientB Value : 0.06682
Target CoefficientC Value : 0.026124
Set CoefficientA Value : 18.937
Set CoefficientB Value : -0.00493
Set CoefficientC Value : 0.025152

Manufacturer Comment Text : 26MY MAZDA CX-50 2.5L w/o cylinder deactivation 4WD
ETW 4000 S6 225/60 R18 1 Ext DF 150K

EPA Generated Test Vehicle Details

Original Receipt Date : 20250601
Hybrid Vehicle Indicator : N
Adjusted Loaded Vehicle Weight Value : 4323
Loaded Vehicle Weight Value : 4086
Total Road Load Horsepower Value : 14.6

Transaction Status Details

Transaction Status Identifier : ACCEPTED

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.

TestVehicleInformationSubmission

TestVehicleInformationDetails

InformationProcessCode : C

EPAManufacturerCode : TKX

VehicleIdentificationText : 7DBPYG1-016

VehicleConfigurationNumber : 0

VehicleConfigurationDetails

VehicleDescriptionDetails

ManufacturerVehicleConfigurationNumber : 0

TestGroupName : HTKXT02.5FNM

EvaporativeRefuelingFamilyName : HTKXR0117GCQ

ModelYear : 2017

ActualTestVehicleMakeText : MAZDA

ActualTestVehicleModelText : CX-5

DriveSourceDetails

DriveSourceIdentifier : C

FuelIdentifier : G

TestDriveCode : F

ShiftIndicatorLightUsageIdentifier : 1

AgedComponentUsageIdentifier : 150

OdometerCorrectionDetails

CorrectionInitialValue : 0

CorrectionFactorValue : 0.998

CorrectionSignIdentifier : -

CorrectionUnitsCode : M

EngineCodeText : 7PYGFAM

EngineRatedHorsepowerValue : 187

EngineDisplacementValue : 2.5

AirAspirationDetails

AirAspirationMethodIdentifier : NA

ChargeAirCoolerIdentifier : N

VehicleSpecificationsDetails

CurbWeightValue : 3655

EquivalentTestWeightValue : 4000

GrossVehicleWeightRatingValue : 4643

NVRatioValue : 33.3

AxleRatioValue : 4.62

TransmissionSpecificationsDetails

LightDutyTransmissionTypeIdentifier : A

TransmissionLockupIndicator : Y

TransmissionCreeperGearIndicator : N

TransmissionGearCount : 6

TargetSetCoefficientDetails

TestProcedureDynamometerCoefficientsCategory : C-H-E

TargetCoefficientAValue : 42.167

TargetCoefficientBValue : 0.22626

TargetCoefficientCValue : 0.023001

SetCoefficientAValue : 18.591

SetCoefficientBValue : 0.09816

SetCoefficientCValue : 0.022669

ManufacturerCommentText : 17MY CX-5 2.5L 4WD ETW 4000 S6 P225/55 R19 0 Evapo DF 001

EPAGeneratedTestVehicleDetails

OriginalReceiptDate : 20161011

HybridVehicleIndicator : N

AdjustedLoadedVehicleWeightValue : 4149

LoadedVehicleWeightValue : 3955

TotalRoadLoadHorsepowerValue : 14.8

TransactionStatusDetails

TransactionStatusIdentifier : ACCEPTED

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.

TestVehicleInformationSubmission

TestVehicleInformationDetails

InformationProcessCode : N**EPAManufacturerCode : TKX****VehicleIdentificationText : 7DBPYG1-017****VehicleConfigurationNumber : 0**

VehicleConfigurationDetails

VehicleDescriptionDetails

ManufacturerVehicleConfigurationNumber : 0**TestGroupName : HTKXT02.5FNM****EvaporativeRefuelingFamilyName : HTKXR0117GCQ****ModelYear : 2017****ActualTestVehicleMakeText : MAZDA****ActualTestVehicleModelText : CX-5**

DriveSourceDetails

DriveSourceIdentifier : C**FuelIdentifier : G****RechargeableEnergyStorageDeviceOtherText : 0****TestDriveCode : F****ShiftIndicatorLightUsageIdentifier : 1****AgedComponentUsageIdentifier : 150**

OdometerCorrectionDetails

CorrectionInitialValue : 0**CorrectionFactorValue : 0.996****CorrectionSignIdentifier : -****CorrectionUnitsCode : M****EngineCodeText : 7PYGFAM****EngineRatedHorsepowerValue : 187****EngineDisplacementValue : 2.5**

AirAspirationDetails

AirAspirationMethodIdentifier : NA**ChargeAirCoolerIdentifier : N**

VehicleSpecificationsDetails

CurbWeightValue : 3655**EquivalentTestWeightValue : 4000****GrossVehicleWeightRatingValue : 4643****NVRatioValue : 33.3****AxleRatioValue : 4.62**

TransmissionSpecificationsDetails

LightDutyTransmissionTypeIdentifier : A**TransmissionLockupIndicator : Y****TransmissionCreeperGearIndicator : N****TransmissionGearCount : 6**

TargetSetCoefficientDetails

TestProcedureDynamometerCoefficientsCategory : C-H-E**TargetCoefficientAValue : 42.167****TargetCoefficientBValue : 0.22626****TargetCoefficientCValue : 0.023001****SetCoefficientAValue : 18.003****SetCoefficientBValue : 0.07060****SetCoefficientCValue : 0.023336****ManufacturerCommentText : 17MY CX-5 2.5L 4WD ETW 4000 S6 P225/55 R19 0 Evapo DF 002**

EPAGeneratedTestVehicleDetails

OriginalReceiptDate : 20161009**HybridVehicleIndicator : N****AdjustedLoadedVehicleWeightValue : 4149****LoadedVehicleWeightValue : 3955****TotalRoadLoadHorsepowerValue : 14.8**

TransactionStatusDetails

TransactionStatusIdentifier : 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 CX-5 4WD	
Model Name	MAZDA CX-5	
Vehicle Classification	LDT	
Emission Control System	TWC/WU-TWC/DFI/HO2S/WR-HO2S	
Engine Code	6PYUGCAA	
Number of Valves per Cylinder	4	
Engine Displacement (liter)	2.5	
Sales Area	Federal / California	
Transmission	S6 4WD With Drive Selection	
Overdrive	Yes	
Regenerative Braking System	Not Applicable	
Grill Shutter	Applicable	
SIL	Applicable	
Tire Size	225/65 R17	225/55 R19
N/V Ratio	33.7	33.3
ETW (lbs)	4250	
CW (lbs)	3856, 3851*1	
GVW (lbs)	4914	
Fuel Tank Volume (L)	58.0 (including the dead volume) 57.3 (excluding the dead volume)	
Canister Working Capacity (g)	117	
Canister Bed Volume	805g (2300cc) & 28g (68cc)	
Power (hp) / rpm	187/6000	
Torque (lb-ft) / rpm	186/4000	

*1: for Canada

14. REQUEST FOR CERTIFICATION

Request for Certificate

Test Group: TTKXT02.5CDJ
Evaporative/Refueling Family: TTKXR0117GCQ

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 19th day of September 2025.



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

17. CALIFORNIA ARB INFORMATION

17-1. California Fill Pipe Specifications *1

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).

			Manufacture Specification ¹
			MAZDA CX-5
General Specification	ARB Specification	ISO-13331 Reference or Noted Otherwise	2.5L w/o cylinder deactivation
1 Angle α in degrees	$-10^\circ < \alpha < 20^\circ$	2.8 & 3.4/Fig 2a & 3a	$-3.3^\circ +0.7/-0.8$
2 Spill Prevention in degrees (angle btwn. centerline of test spout in its resting position and the horiz. plane).	30° (MIN)	3.5	$31.7^\circ +0.7/-0.8$
3 Test nozzle penetration of restrictor	2.25 cm or 22.5 mm(MIN)	3.4	$3.5\text{cm}\pm 0.2$
4 Angle β in degrees	none	2.9/Fig 2b & 3b	$-0.1^\circ\pm 0.4$
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: <i>unless meets criteria in 2b. Below</i>	5.75 cm or 57.5 mm(MAX)	3.1/Fig 1	$6.0\text{cm}+0.05/-0.04$ (SAE J1114)
	5.20 cm or 52.0 mm(MIN)	3.1/Fig 1	
2b Fill Pipe face <i>outside</i> sealing diameter: <i>criteria: new fill pipe head design starting MY 2024</i>	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 degrees extending each side of ref. plane	100° (MIN)	3.2/Fig 2 and 3	$281^\circ\pm 23$
	35° (MIN) LS ²	3.2/Fig 2 and 3	$87^\circ\pm 6$
	each side RS ²	3.2/Fig 2 and 3	$194^\circ\pm 23$
4 Height of lip measured from fill pipe inside wall; or height of lip measured from fill pipe outside wall for outside diameters between 5.20 and 5.75 cm.	0.25 cm or 2.5 mm(MIN)	3.2	$0.32\text{cm}\pm 0.04$
	0.85 cm or 8.5 mm(MIN)	3.2	
5a Depth of lip (D) in centimeters	$0.4 < D < 1.3$	3.2	$0.96\text{cm}\pm 0.04$
5b Depth of lip (D) in centimeters: <i>criteria: new fill pipe head design starting MY 2024</i>	$0.4 < D < 1.1$	CARB Fill Pipe Spec.	n/a
Offset			
Offset A	none	3.3.1/Fig 5 shown as "f"	$0.41\text{cm} +0.03/-0.02$
Offset B	none	3.3.1/Fig 5 shown as "g"	0cm
6a Fill Pipe Face Clearance (Axial): <i>unless meets criteria in 6b. Below</i>	0.25 cm or 2.5 mm (MIN)	Fig 5 shown as "2.5"	2.5mm(Min)
6b Fill Pipe Face Clearance (Axial): <i>criteria: new fill pipe head design starting MY 2024</i>	40 degrees out to 12 mm depth	CARB Fill Pipe Spec.	n/a
7a Fill Pipe Face Clearance (Radial): <i>unless meets criteria in 7b. Below</i>	≥ 40 mm	Fig 5 shown as "R40"	40mm(Min)
7b Fill Pipe Face Clearance (Radial): <i>criteria: new fill pipe head design starting MY 2024</i>	≥ 43 mm	CARB Fill Pipe Spec.	n/a
8 Fill Pipe Face Inside Diameter	49.8 mm(MAX)	Fig 1	$46.8\text{mm}\pm 0.5$
9 Bench Leak Test: Phase in schedule in CARB	2.5 L/Min (MAX) at 500 Pa Vacuum		0.10L/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))			TTKXR0117GCQ
16 Total vehicle model year sales			For the sales information, please refer to the Common Section "16-5. Projected Sales". Test Group: TTKXT02.5CDJ
17 Open Vent or Holes			None
18 New or C/O			C/O
19 Reference number for C/O model			KB7W-42280
20 Fill Pipe Drawing Number (if New)			-
21 Fill Pipe Supplier Name (if New)			-

¹: dimension should include adverse tolerance condition²: LS = Left side of reference plane, RS = Right side of reference plane³ 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", amended May 31, 2019, 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	TTKXT02.5CDJ		
Evap. Family	TTKXR0117GCQ	Evap. STD	LEV4 Opt1	LEV4 Opt2	X(FEL:0.400)		
ORVR	Yes	X		No			
Engine Code Types	CA		49S	50S	X		
Vehicle Class(es)-Select all that apply	PC		LDT1	LDT2	X		MDV1
	MDV2		MDV3	MDV4			
LEV4 Pooling Option							
FTP NMOG+NOx	Option1		Option2	X			
Evap	Option1		Option2	X	N/A		
Exhaust Std	LEV4 ULEV125		LEV4 ULEV70		LEV4 ULEV60		LEV4 ULEV50
	LEV4 ULEV40		LEV4 SULEV30	X	LEV4 SULEV20		LEV4 SULEV15
	U.S. EPA	Tier3 Bin30					
SFTP Std	LEV4	X	LEV4(INTERIM CERT US06)				
	U.S. EPA	Tier3 Bin30					
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	X		NOT APPLICABLE
SFTP Interim in-use Std	NMOG+NOx(US06)	X	PM(US06)	NMOG+NOx AND PM(US06)			NOT APPLICABLE
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	X		E10-EPA X(Cold-FTP only)
	E85-CARB		E85-EPA	Diesel			Other (specify)
NMOG Test Proc	Std	X	Equiv	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/DFI/HO2S/WR-HO2S						
	2.						
Engine Configuration	I4		Valves per cylinder	4			
Displacement (Liters)	1. 2.5L		Rated HP/RPM	1. 187/6000			
	2.			2.			
Engine location	Front	X	Mid	Rear			
Drive	FWD		RWD	4WD-FT	X		4WD-PT

Contents	Sect/Page #	Contents	Sect/Page #
1 Authorized Representative	1-1	22 Gen Std, Increase in Emiss, 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 Equiv 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) 2026MY 6DBPYUG3-014	DDV (Evap) 2017MY 7DBPYG1-016	EDV (EM) 2026MY 6EBPYUG8-031
	C/O or C/A MY & ID		EDV (50° F) 2026MY 6EBPYUGA-033
			EDV (Evap) 2026MY 6EBPYUG8-031
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
6PYUGCAA(50ST)	MAZDA CX-5 4WD 2.5L	S6	4250	n/a

50°F and High Altitude NMOG+NOx Cert Levels and Standards

50°F

Test Vehicle ID:6EBPYUGA-033(conducted by development vehicle)

Air Pollutant	NMOG+NOx (g/mi)	CO (g/mi)
4K CERT	0.052	0.4
4K STD	0.060	1.0

High Altitude NMOG+NOx

Test Vehicle ID:6EBPYUGD-036(conducted by development vehicle)

Air Pollutant	NMOG+NOx (g/mi)
UL CERT	0.019
UL STD	0.050

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

17-5. Fuel Evaporative Emission Results

Evaporative Canister Bleed Test	:	0.014 (g/test)
Emission Standard	:	0.020 (g/test)

19. REVISIONS

No.	Date	Pages Affected	Description
-	9/19/2025	-	Issued.