

TOYOTA

Application For Certification - Part 1 2026 Model Year

Durability Group : TTYXHHGNNE25
Evap/refueling Families : TTYXR0165J42
Test Group : TTYXJ02.5H3X
Durability Group Description : Four Stroke, Otto Cycle, Gasoline/Electricity Fueled,
Ported FI, Catalyst code : 3-IIZ58 +3-IIq2
Test Group Description : 2.5 Liter I4
LDV (RAV4 PHEV AWD GR-S)
LDT2 (RAV4 PHEV AWD,
RAV4 PHEV AWD WOODLAND EDITION)
Applicable Standards : Federal State: Tier3 -Bin 30-LDV/LDT1
California: LEVIV-SULEV30-PC/LDT1
Carlines Covered : RAV4 PHEV AWD, RAV4 PHEV AWD GR-S,
RAV4 PHEV AWD WOODLAND EDITION
Engine Series : A25A-FXS
Vehicles Tested :

Vehicle I.D.	Config.	Test	Test Number
26-AP4H	00	FTP	TTYX10092531
26-AP4H	00	HWY	TTYX10092533
26-AP4H	00	SFTP (US06)	TTYX10092535
26-AP4H	00	SFTP (SC03)	TTYX10092534
24-AL1H	00	EVAP	RTYX10079330, RTYX10079367
24-AL1H	00	Running Loss	RTYX10079366
21-AP2H	00	Refueling	MTYX10063476
26-AP4H	00	C.CO,C.HC	TTYX10092532

EPA Response Requested By : February 13, 2026
For Questions, Contact : Lisa Florida 734-695-2697

Note :

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1. **Correspondence and Communications**

Please refer to the FOI common file.

2. **Durability Group Description**

Durability Group Name : TTYXHHGNNE25

Please refer to the common file for details.

3. **Evaporative/Refueling Family Description**

Evaporative/Refueling Family Name : TTYXR0165J42

Please refer to the FOI common file for details.

4. **Durability Procedure Description**

4.1 Exhaust Durability Test Procedure

4.2 Durability Showing

4.3 Evap/refueling Durability Test Procedure

Please refer to the CBI common file.

4.4 Exhaust Emission Deterioration Factors

4.5 Evap/refueling Emission Deterioration Factors

4.6 Equivalency Factor

Please refer to the Certification Summary Information Report in Section 7 or FOI common file.

5. Test Group Description

- 5.1 Test group name : TTYXJ02.5H3X
- 5.2 Engine displacements covered : 2,487 cm³ (151.8 CID)
- 5.3 Arrangement and number of cylinders : I4
- 5.4 Vehicle class (es) covered : LDV(RAV4 PHEV AWD GR-S)
LDT2(RAV4 PHEV AWD,
RAV4 PHEV AWD WOODLAND EDITON)
- 5.5 Federal emission standards class : Tier3–Bin30-LDV/LDT1
- 5.6 California emission standards class : LEVIV-SULEV30 -PC/LDT1
- 5.7 Applicable emission standards :
Please refer to Certification Summary Information Report in Section 7.
- 5.8 Special test procedures : please refer to section16 in CBI common file
- 5.9 Identification of the propulsion system :
Powertrain(traction motor), Thermal management, Charging equipment,
Voltage Conversion, Energy storage system, Electric Control Unit
- 5.10 Identification of the energy storge system : high voltage battery pack

6. Test Vehicle Description

DDV: Utilizing good engineering judgement that considered vehicle curb weight, road load coefficients, catalyst heat stress, we judged 26MY RAV4 PHEV is the representative DDV in this Durability Group. RAV4 PHEV was chosen as representative DDV because it has the same engine (A25A-FXS), same ECS, and the exact same catalyst specification.

EDV: Utilizing good engineering judgement that considered vehicle curb weight, road load coefficients, catalyst heat stress, and CD, CS emission results, we judged 26MY RAV4 PHEV is the representative EDV in this Test Group. RAV4 PHEV was chosen as representative EDV because it has the same engine (A25A-FXS), same ECS, and the exact same catalyst specification.

For complete vehicle description, refer to Certification Summary Information Report Sheet, enclosed in Section 7 of this application.

Battery and Vehicle Pre-Conditioning Procedures

The HV battery and vehicle does not require any pre-conditioning to enable the vehicle system.

Vehicle Break-in Range

Break in Period of Vehicle	Break in mile of Vehicle
N/A	2,000 mile

Certification Summary Information Report

Manufacturer	Toyota Motor Corporation	Manufacturer Code	TYX
Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	12/09/2025 08:12:39 AM
Model Year	2026		

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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 & ported injection	No
Drive Source #2:	Electric Motor		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Electricity	--	No
Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV, LDT2
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	TTYXHHGNNE25	Durability Group Equivalency Factor	1.4
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TTYXV02.0E4A
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	12/25/2024 09:42:26 PM				
Integrated ORVR?	No	Fuel(s)	Gasoline, Electricity				
Multiple Fuel Storage	Fuels Stored Together						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	EVOH				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	165	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	No	Applicability of Evaporative Canister Bleed Test	--				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Toyota Motor Corporation	1 - TOYOTA	168 - RAV4 PHEV AWD GR-S	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Toyota Motor Corporation	1 - TOYOTA	169 - RAV4 PHEV AWD WOODLAND EDITION	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Toyota Motor Corporation	1 - TOYOTA	168 - RAV4 PHEV AWD GR-S	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Toyota Motor Corporation	1 - TOYOTA	159 - RAV4 PHEV AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Toyota Motor Corporation	1 - TOYOTA	159 - RAV4 PHEV AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Toyota Motor Corporation	1 - TOYOTA	169 - RAV4 PHEV AWD WOODLAND EDITION	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Engine Description			
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	0W-16
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	N
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
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	186
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	Intake and exhaust		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	1	Number of Air/Fuel Sensors	2
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated air fuel	Air/Fuel Sensor # 2 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y				Evaporative/Refueling Family		TTYXR0165J42		
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
Electricity	TTYX10092531	TTYX10092535	TTYX10092534	TTYX10092532	TTYX10092533	--	--	--	--	--
Gasoline	TTYX10092531	TTYX10092535	TTYX10092534	TTYX10092532	TTYX10092533	205.5	38.1	146.7	33.0	--
SFTP LEV-III Official Test Numbers										
Test Group Fuel	FTP	US06	SC03							
Electricity	TTYX10092531	TTYX10092535	TTYX10092534							
Gasoline	TTYX10092531	TTYX10092535	TTYX10092534							
Hybrid Electric Vehicle And Fuel Cell Information										
Rechargeable Energy Storage System	Battery(s)				Rechargeable Energy Storage System, if Other		--			
Battery Type	Lithium Ion				Number of Battery Packs		1			
Total Voltage of Battery Packs	355				Battery Energy Capacity		58			
Battery Specific Energy	116				Battery Charger Type		On-Board			
Number of Capacitors	--				Capacitor Rating (In Farads)		--			
Mfr Capacitor Comments	--									
Hydraulic System Description	--									
Regenerative Braking Type	Electrical Regen Brake				Driver Controlled Regenerative Braking		No			
Regenerative Braking Source	Both									
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	2				Rated Motor/Generator Power		151			
Motor/Generator Type 1	AC Synchronous				Rated Motor/Generator Power		41			
Motor/Generator Type 2	AC Synchronous									
Mfr Fuel Cell Description	--				Usable H2 Fill Capacity (kg)		--			
Fuel Cell On-Board H2 Storage Capacity (kg)	--									
Mfr Hybrid Electric/ Electric Vehicle Comments	Batteries are charged from an external power supply through the charger. The Battery Specific Energy value varies depending on whether DC charging is available or not. The entered value corresponds to the value without DC charging. The value with DC charging is 118.									

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42									
Emission Data Vehicle Information												
Vehicle ID / Configuration	21-AP2H / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	MTYXT02.5P33	Original Evaporative/Refueling Family	MTYXR0165J82									
Original Test Vehicle Model Year	2021											
Vehicle Model												
Represented Test Vehicle Make	TOYOTA	Represented Test Vehicle Model	RAV4 PRIME AWD									
Leak Family Details												
Leak Family Identifier	--	Leak Family Name	--									
Drive Sources and Fuel System Details												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	Yes											
Odometer Correction -- Initial	14	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	01	Rated Horsepower	177									
Displacement (liters)	2.487											
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)	4300	Equivalent Test Weight (pounds)	4500									
GVWR (lbs)	5530	N/V Ratio	22									
Axle Ratio	3.41											
Transmission Type	Continuously Variable	# of Transmission Gears	1									
Transmission Lockup	No	Creeper Gear	No									

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	28.089	0.14349	0.025579	12.716	0.02442	0.025499	13.2
US06	28.089	0.14349	0.025579	12.716	0.02442	0.025499	N/A

Emission Control Device Comments --
Manufacturer Test Vehicle Comments T/M MODE IS SPORT

Test #	MTYX10063476	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	MTYX10063424	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/30/2020	Fuel	Gasoline
Fuel Batch ID	1G9-01	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	5016	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	0.0043324	--

Manufacturer Test Comments --

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	0.004	0.000	0.00	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.004	0.000	0.00	0.20	Pass

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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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	32.963	0.34363	0.024479	15.69	0.13738	0.02495	14.8
Cold CO	36.259	0.37799	0.026927	16.107	0.02488	0.02802	N/A
US06	32.963	0.34363	0.024479	15.69	0.13738	0.02495	N/A

Emission Control Device Comments

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Manufacturer Test Vehicle Comments

DRIVE MODE IS SPORT

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	RTYX10079330	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	RTYX10079329	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/15/2023	Fuel	Gasoline
Fuel Batch ID	2M2A03	Fuel Calibration Number	3
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4163	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	0	--
FE BAG 1 (Bag 1 Fuel Economy)	999	999
CO2 BAG 2 (Bag 2 Carbon Dioxide)	0	--
FE BAG 2 (Bag 2 Fuel Economy)	999	999
CO2 BAG 3 (Bag 3 Carbon Dioxide)	0	--
FE BAG 3 (Bag 3 Fuel Economy)	999	999
MFR FE (Manufacturer Fuel Economy)	999	999
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1381	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments HSL=0.0143, 1ST DBL=0.1238, 2ND DBL=0.0842, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0086GRAM)

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	0.1381	0.0000	0.138	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1381	0.0000	0.138	0.300	Pass

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	RTYX10079367	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	RTYX10079365	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	03/20/2023	Fuel	Gasoline
Fuel Batch ID	2L2-10	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4273	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	0	--
FE BAG 1 (Bag 1 Fuel Economy)	999	999
CO2 BAG 2 (Bag 2 Carbon Dioxide)	0	--
FE BAG 2 (Bag 2 Fuel Economy)	999	999
CO2 BAG 3 (Bag 3 Carbon Dioxide)	0	--
FE BAG 3 (Bag 3 Fuel Economy)	999	999
MFR FE (Manufacturer Fuel Economy)	999	999
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1866	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments HSL=0.0338, 1ST DBL=0.1528, 2ND DBL=0.0837, 3RD DBL=0.0798, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0086GRAM)

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	0.1866	0.0000	0.187	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1866	0.0000	0.187	0.300	Pass

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	RTYX10079366	Test Procedure	37 - California Fuel Running Loss
Exhaust Test # for this Evap Test	RTYX10079365	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	03/20/2023	Fuel	Gasoline
Fuel Batch ID	2L2-10	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4273	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	0	--
FE BAG 1 (Bag 1 Fuel Economy)	999	999
CO2 BAG 2 (Bag 2 Carbon Dioxide)	0	--
FE BAG 2 (Bag 2 Fuel Economy)	999	999
CO2 BAG 3 (Bag 3 Carbon Dioxide)	0	--
FE BAG 3 (Bag 3 Fuel Economy)	999	999
MFR FE (Manufacturer Fuel Economy)	999	999
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0017952	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments --

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	0.002	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.002	0.000	0.00	0.01	Pass

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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Emission Data Vehicle Information

Vehicle ID / Configuration	26-AP4H / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TTYXJ02.5H3X	Original Evaporative/Refueling Family	TTYXR0165J42
Original Test Vehicle Model Year	2026		
Vehicle Model			
Represented Test Vehicle Make	TOYOTA	Represented Test Vehicle Model	RAV4 PHEV AWD GR-S

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
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	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	01	Rated Horsepower	186
Displacement (liters)	2.487		
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)	4430	Equivalent Test Weight (pounds)	4750
GVWR (lbs)	5705	N/V Ratio	24.5
Axle Ratio	3.44		
Transmission Type	Continuously Variable	# of Transmission Gears	1
Transmission Lockup	No	Creeper Gear	No

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y			Evaporative/Refueling Family			TTYXR0165J42
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	35.281	0.0688	0.027616	13.659	0.05703	0.026354	14.4	
Cold CO	38.809	0.07568	0.030377	13.133	-0.13802	0.030066	N/A	
US06	35.281	0.0688	0.027616	13.659	0.05703	0.026354	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	DRIVE MODE IS NORMAL							

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	TTYX10092531	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/05/2025	Fuel	Gasoline
Fuel Batch ID	2A5-01	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4057	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	249.6348786	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.1857234	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	999	
CH4 BAG 1 (Bag 1 Methane)	0.0076434	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0508416	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	87.8645013	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0238006	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	999	
CH4 BAG 2 (Bag 2 Methane)	0.0027727	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0024949	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	226.471827	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0472583	--	
FE BAG 3 (Bag 3 Fuel Economy)	999	999	
CH4 BAG 3 (Bag 3 Methane)	0.0036838	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0039179	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	82.4306262	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0354699	--	
FE BAG 4 (Bag 4 Fuel Economy)	999	999	
CH4 BAG 4 (Bag 4 Methane)	0.0021381	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0013	--	
METHANE (CH4 - Methane)	0.0038454	--	
CO (Carbon Monoxide)	0.0672582	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.36	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.11	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.7	--	
MFR FE (Manufacturer Fuel Economy)	999	999	
NOX (Nitrogen Oxide)	0.0012153	--	
N2O (Nitrous Oxide)	0.0002916	--	
HC-NM (Non-methane Hydrocarbon)	0.0114111	--	
NMOG (Non-methane organic gases)	0.0125555	--	
PM (Particulate Matter)	0.0000995	--	
HC-TOTAL (Total Hydrocarbon)	0.014926	--	

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	158

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	157.8821094	--

Manufacturer Test Comments

Bag1:NMOG = HC-NM x 1.1036 Bag2,Bag4:NMOG = HC-NM x 1.1235 Bag3:NMOG = HC-NM x 1.0505

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	CO	0.07	--	--	--	0.04	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.14	--	--	--	0.04	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	158	--	--	--	0.057	--	158	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0038	--	--	--	0.0020	--	0.006	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0003	--	--	--	0.0000	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0126	1	1.10	--	0.0044	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0138	1	1.10	--	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0143	1	1.03	--	0.0047	--	0.014	0.040	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0012	--	--	--	0.0003	--	0.002	999.999	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	0.07	--	--	--	0.04	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0126	1	1.10	--	0.0044	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0138	1	1.10	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0012	--	--	--	0.0003	--	0.002	999.999	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.

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	TTYX10092532	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/12/2025	Fuel	Gasoline
Fuel Batch ID	2M3A01	Fuel Calibration Number	17
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4146	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	373.3462619	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.285672	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	999	
CH4 BAG 1 (Bag 1 Methane)	0.0396714	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.4163045	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	261.3777352	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.2189203	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	999	
CH4 BAG 2 (Bag 2 Methane)	0.0009025	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0006723	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	255.4932037	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.084872	--	
FE BAG 3 (Bag 3 Fuel Economy)	999	999	
CH4 BAG 3 (Bag 3 Methane)	0.0018857	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0005402	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	197.1830509	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.1452777	--	
FE BAG 4 (Bag 4 Fuel Economy)	999	999	
CH4 BAG 4 (Bag 4 Methane)	0.001673	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0	--	
METHANE (CH4 - Methane)	0.0094413	--	
CO (Carbon Monoxide)	0.3816085	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.69	--	
DT-EER (Drive Trace Energy Economy Rating)	0.21	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.07	--	
MFR FE (Manufacturer Fuel Economy)	999	999	
NOX (Nitrogen Oxide)	0.001828	--	
N2O (Nitrous Oxide)	0.0008601	--	
HC-NM (Non-methane Hydrocarbon)	0.0785161	--	
NMOG (Non-methane organic gases)	0.0866455	--	
HC-TOTAL (Total Hydrocarbon)	0.0873253	--	

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	264.0297641	--

Manufacturer Test Comments

Bag1:NMOG = HC-NM x 1.1036 Bag2,Bag4:NMOG = HC-NM x 1.1235 Bag3:NMOG = HC-NM x 1.0505

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	0.38	--	--	--	0.01	--	0.4	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.08	--	--	--	0.00	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV SULEV30	CO	0.38	--	--	--	0.01	--	0.4	10.0	Pass

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	TTYX10092533	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/05/2025	Fuel	Gasoline
Fuel Batch ID	2A5-01	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4072	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)
CO BAG 1 (Bag 1 Carbon Monoxide)	0.0480017	--
CH4 BAG 1 (Bag 1 Methane)	0.0005923	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0004294	--
METHANE (CH4 - Methane)	0.0005923	--
CO (Carbon Monoxide)	0.0480017	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.73	--
DT-EER (Drive Trace Energy Economy Rating)	-0.07	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.2	--
MFR FE (Manufacturer Fuel Economy)	999	999
NOX (Nitrogen Oxide)	0.0003368	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0004169	--
NMOG (Non-methane organic gases)	0.0004294	--
HC-TOTAL (Total Hydrocarbon)	0.0009583	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	172

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	171.6657389	--

Manufacturer Test Comments

NMOG = HC-NM x 1.03

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y				Evaporative/Refueling Family				TTYXR0165J42		
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	CREE	172	--	--	--	0.057	--	172	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0004	1	1.03	--	0.0044	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0007	1	1.03	--	--	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0003	--	--	--	0.0003	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0004	1	1.03	--	0.0044	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0007	1	1.03	--	--	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0003	--	--	--	0.0003	--	0.001	999.999	Pass

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

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	TTYX10092535	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/05/2025	Fuel	Gasoline
Fuel Batch ID	2A5-01	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4093	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	272.1716854	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.1930661	--
FE BAG 1 (Bag 1 Fuel Economy)	999	999
CH4 BAG 1 (Bag 1 Methane)	0.0036634	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0166936	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	234.506855	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1595323	--
FE BAG 2 (Bag 2 Fuel Economy)	999	999
CH4 BAG 2 (Bag 2 Methane)	0.0026069	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0063493	--
METHANE (CH4 - Methane)	0.0028409	--
CO (Carbon Monoxide)	0.1669607	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.24	--
DT-EER (Drive Trace Energy Economy Rating)	-0.25	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.75	--
MFR FE (Manufacturer Fuel Economy)	999	999
NOX (Nitrogen Oxide)	0.0025138	--
N2O (Nitrous Oxide)	0.0003384	--
HC-NM (Non-methane Hydrocarbon)	0.0083891	--
NMOG (Non-methane organic gases)	0.0086408	--
PM (Particulate Matter)	0.0003593	--
HC-TOTAL (Total Hydrocarbon)	0.0109858	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	242.8503455	--

Manufacturer Test Comments

NMOG = HC-NM x 1.03

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y				Evaporative/Refueling Family				TTYXR0165J42		
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	0.0004	--	--	--	0.0000	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.17	--	--	--	0.04	--	0.2	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0086	1	1.03	--	0.0044	--	0.013	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0111	1	1.03	--	--	--	0.016	0.036	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0025	--	--	--	0.0003	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0004	--	--	--	0.0000	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	TTYX10092534	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	10/10/2025	Fuel	Gasoline
Fuel Batch ID	2A5-01	Fuel Calibration Number	3
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4920	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)	0.0024268	--
CO (Carbon Monoxide)	0.067682	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.21	--
DT-EER (Drive Trace Energy Economy Rating)	0.03	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.21	--
MFR FE (Manufacturer Fuel Economy)	999	999
NOX (Nitrogen Oxide)	0.001266	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0030657	--
NMOG (Non-methane organic gases)	0.0031577	--
HC-TOTAL (Total Hydrocarbon)	0.0053303	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	213.5821096	--

Manufacturer Test Comments NMOG = HC-NM x 1.03

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y				Evaporative/Refueling Family				TTYXR0165J42		
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	CO	0.07	--	--	--	0.04	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0032	1	1.03	--	0.0044	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0045	1	1.03	--	--	--	0.009	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0013	--	--	--	0.0003	--	0.002	999.999	Pass

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
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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	35.281	0.0688	0.027616	15.34	-0.00868	0.027273	14.4
US06	35.281	0.0688	0.027616	15.34	-0.00868	0.027273	N/A

Emission Control Device Comments

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Manufacturer Test Vehicle Comments

DRIVE MODE IS NORMAL

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	TTYX10092576	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	09/23/2025	Fuel	N/A
Fuel Batch ID	2D5A01	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4354	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	18.3882
Charge Depleting Range (Calculated miles)	84.346	Charge Depleting Range (Actual miles)	84.346
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	80.837	Equivalent All Electric Range (miles)	84.025
Number of Charge Depleting Bags/Phases Conducted	13	Transition Bag/Phase Number	12
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.451
	Average System Voltage		433
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.28
	Drive Trace Energy Economy Rating		-0.12
	Drive Trace Inertia Work Ratio Rating		0.5
	Integrated Amp-hours		3.584
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		1.551872
	System Start State of Charge Watt-hours		0
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.449
	Average System Voltage		427.5
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.54
	Drive Trace Energy Economy Rating		-0.11
	Drive Trace Inertia Work Ratio Rating		0.79
	Integrated Amp-hours		7.113
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		3.0605195
	System Start State of Charge Watt-hours		1.551872
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.449
	Average System Voltage		420.6
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.43
	Drive Trace Energy Economy Rating		0.02
	Drive Trace Inertia Work Ratio Rating		0.56
	Integrated Amp-hours		10.6642
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		4.5541542
	System Start State of Charge Watt-hours		3.0605195
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.46
	Average System Voltage		412.9
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.44
	Drive Trace Energy Economy Rating		0.02
	Drive Trace Inertia Work Ratio Rating		0.94
	Integrated Amp-hours		14.2285
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		6.0258537
	System Start State of Charge Watt-hours		4.5541542
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.454
	Average System Voltage		405.2
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.35
	Drive Trace Energy Economy Rating		-0.08
	Drive Trace Inertia Work Ratio Rating		0.64
	Integrated Amp-hours		17.8852
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		7.5075485
	System Start State of Charge Watt-hours		6.0258537
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.444
	Average System Voltage		396.8
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.25
	Drive Trace Energy Economy Rating		-0.35
	Drive Trace Inertia Work Ratio Rating		0.53
	Integrated Amp-hours		21.5984
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		8.9809463
	System Start State of Charge Watt-hours		7.5075485
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #7

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.463
	Average System Voltage		389.1
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		-0.2
	Drive Trace Energy Economy Rating		-0.47
	Drive Trace Inertia Work Ratio Rating		-0.29
	Integrated Amp-hours		25.4012
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		10.4606158
	System Start State of Charge Watt-hours		8.9809463
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.454
	Average System Voltage		383.4
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		-0.13
	Drive Trace Energy Economy Rating		-0.4
	Drive Trace Inertia Work Ratio Rating		-0.16
	Integrated Amp-hours		29.2468
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		11.9350188
	System Start State of Charge Watt-hours		10.4606158
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #9

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.451
	Average System Voltage		379.4
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.49
	Drive Trace Energy Economy Rating		-0.08
	Drive Trace Inertia Work Ratio Rating		0.89
	Integrated Amp-hours		33.1486
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		13.4153617
	System Start State of Charge Watt-hours		11.9350188
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #10

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.448
	Average System Voltage		376.2
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.31
	Drive Trace Energy Economy Rating		-0.26
	Drive Trace Inertia Work Ratio Rating		0.58
	Integrated Amp-hours		37.0756
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		14.8926991
	System Start State of Charge Watt-hours		13.4153617
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #11

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.453
	Average System Voltage		373.4
	CH4 - Methane		0.0032
	Carbon Monoxide		0.13
	Carbon dioxide		39
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.32
	Drive Trace Energy Economy Rating		-0.05
	Drive Trace Inertia Work Ratio Rating		0.78
	Integrated Amp-hours		40.2181
	Manufacturer Fuel Economy		219.703837
	Nitrogen Oxide		0.002
	Nitrous Oxide		0.001
	Non-methane Hydrocarbon		0.028
	Non-methane organic gases		0.0308
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		16.0661086
	System Start State of Charge Watt-hours		14.8926991
	Total Hydrocarbon		0.031

Charge Depleting Bag/Phase #12

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		7.452
	Average System Voltage		373.3
	CH4 - Methane		0.0034
	Carbon Monoxide		0.1
	Carbon dioxide		117
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		0.46
	Drive Trace Energy Economy Rating		0.05
	Drive Trace Inertia Work Ratio Rating		1.08
	Integrated Amp-hours		41.2172
	Manufacturer Fuel Economy		73.6799538
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0.0046
	Non-methane organic gases		0.0051
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		16.4390726
	System Start State of Charge Watt-hours		16.0661086
	Total Hydrocarbon		0.008

Charge Depleting Bag/Phase #13

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.446	
	Average System Voltage	373.9	
	CH4 - Methane	0.0041	
	Carbon Monoxide	0.08	
	Carbon dioxide	148	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	0.62	
	Drive Trace Energy Economy Rating	-0.02	
	Drive Trace Inertia Work Ratio Rating	1.06	
	Integrated Amp-hours	41.1931	
	Manufacturer Fuel Economy	58.2711035	
	Nitrogen Oxide	0.0004	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0.0104	
	Non-methane organic gases	0.0115	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	System End State of Charge Watt-hours	16.4300616	
	System Start State of Charge Watt-hours	16.4390726	
	Total Hydrocarbon	0.014	
Manufacturer Test Comments	The state of charge unit input in kilo-watt-hours. 4000MILES. URBAN CD-RANGE TEST. NMOG=HC-NM x 1.1012. Changed TestFuelTypeID from 48 to 61 and FuelBatchID from 2A5-01 to 2D5A01. Calculate E10 fuel economy using 0.81 R factor for PHEV calculator		

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Test #	TTYX10092577	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	09/30/2025	Fuel	N/A
Fuel Batch ID	2D5A01	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Toyota Motor Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4512	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	239.5	Recharge Event Energy (kiloWatt-hours)	17.9972
Charge Depleting Range (Calculated miles)	71.775	Charge Depleting Range (Actual miles)	71.775
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	64.351	Equivalent All Electric Range (miles)	71.148
Number of Charge Depleting Bags/Phases Conducted	9	Transition Bag/Phase Number	8
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.252
	Average System Voltage		427.9
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		1.36
	Drive Trace Energy Economy Rating		-0.1
	Drive Trace Inertia Work Ratio Rating		1.71
	Integrated Amp-hours		6.17456
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		2.6420942
	System Start State of Charge Watt-hours		0
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.252
	Average System Voltage		416.9
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		1.53
	Drive Trace Energy Economy Rating		-0.25
	Drive Trace Inertia Work Ratio Rating		1.92
	Integrated Amp-hours		12.3056
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		5.1981248
	System Start State of Charge Watt-hours		2.6420942
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.256
	Average System Voltage		403.1
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		3.91
	Drive Trace Energy Economy Rating		-0.12
	Drive Trace Inertia Work Ratio Rating		4.95
	Integrated Amp-hours		18.6902
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		7.7717571
	System Start State of Charge Watt-hours		5.1981248
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.254
	Average System Voltage		390
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		2.37
	Drive Trace Energy Economy Rating		-0.16
	Drive Trace Inertia Work Ratio Rating		2.96
	Integrated Amp-hours		25.374
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		10.3784391
	System Start State of Charge Watt-hours		7.7717571
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.254
	Average System Voltage		379.3
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		4.46
	Drive Trace Energy Economy Rating		-0.1
	Drive Trace Inertia Work Ratio Rating		5.76
	Integrated Amp-hours		31.8901
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		12.8499958
	System Start State of Charge Watt-hours		10.3784391
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.255
	Average System Voltage		372.5
	CH4 - Methane		0
	Carbon Monoxide		0
	Carbon dioxide		0
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		2.41
	Drive Trace Energy Economy Rating		-0.19
	Drive Trace Inertia Work Ratio Rating		2.93
	Integrated Amp-hours		38.7271
	Manufacturer Fuel Economy		0
	Nitrogen Oxide		0
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0
	Non-methane organic gases		0
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		15.3967783
	System Start State of Charge Watt-hours		12.8499958
	Total Hydrocarbon		0

Charge Depleting Bag/Phase #7

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.252
	Average System Voltage		371.5
	CH4 - Methane		0.0026
	Carbon Monoxide		0.11
	Carbon dioxide		128
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		2.77
	Drive Trace Energy Economy Rating		-0.15
	Drive Trace Inertia Work Ratio Rating		3.44
	Integrated Amp-hours		40.7532
	Manufacturer Fuel Economy		67.3265638
	Nitrogen Oxide		0.0019
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0.0196
	Non-methane organic gases		0.0202
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		16.1494745
	System Start State of Charge Watt-hours		15.3967783
	Total Hydrocarbon		0.022

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name		Unrounded Test Result
	Actual Distance Driven (miles)		10.253
	Average System Voltage		374.7
	CH4 - Methane		0.0012
	Carbon Monoxide		0.05
	Carbon dioxide		178
	Carbon-Related Exhaust Emissions		0
	Drive Trace Absolute Speed Change Rating		2.89
	Drive Trace Energy Economy Rating		-0.09
	Drive Trace Inertia Work Ratio Rating		3.68
	Integrated Amp-hours		40.7419
	Manufacturer Fuel Economy		48.4829116
	Nitrogen Oxide		0.0004
	Nitrous Oxide		0
	Non-methane Hydrocarbon		0.0003
	Non-methane organic gases		0.0003
	Non-methane organic gases plus Nitrogen Oxides		999.999
	Optional Carbon-Related Exhaust Emissions		0
	System End State of Charge Watt-hours		16.1452404
	System Start State of Charge Watt-hours		16.1494745
	Total Hydrocarbon		0.001

Charge Depleting Bag/Phase #9

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.255	
	Average System Voltage	374.7	
	CH4 - Methane	0.0006	
	Carbon Monoxide	0.05	
	Carbon dioxide	171	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	2.92	
	Drive Trace Energy Economy Rating	-0.14	
	Drive Trace Inertia Work Ratio Rating	3.71	
	Integrated Amp-hours	40.7641	
	Manufacturer Fuel Economy	50.4666456	
	Nitrogen Oxide	0.0002	
	Nitrous Oxide	0	
	Non-methane Hydrocarbon	0.0005	
	Non-methane organic gases	0.0005	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Optional Carbon-Related Exhaust Emissions	0	
	System End State of Charge Watt-hours	16.1535587	
	System Start State of Charge Watt-hours	16.1452404	
	Total Hydrocarbon	0.001	
Manufacturer Test Comments	The state of charge unit input in kilo-watt-hours. 4000MILES. HWY CD-RANGE TEST. NMOG=HC-NM x 1.03. Changed TestFuelTypeID from 48 to 61 and FuelBatchID from 2A5-01 to 2D5A01. Calculate E10 fuel economy using 0.81 R factor for PHEV calculator		

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Fuel Properties			
Fuel Batch ID	2A5-01	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	09/30/2025
Fuel Batch Calibration Effective Date	09/01/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.528	Fuel Carbon Mass Fraction (E10)	0.825
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	2D5A01	Fuel Calibration Number	2
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	04/19/2025
Fuel Batch Calibration Effective Date	09/01/2025	Fuel Batch Calibration Ineffective Date	09/30/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.735
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18529
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.863	Weight Fraction CO2	--
Fuel Batch ID	2M2A03	Fuel Calibration Number	3
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/01/2022
Fuel Batch Calibration Effective Date	03/01/2023	Fuel Batch Calibration Ineffective Date	03/31/2023
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17847
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	2L2-10	Fuel Calibration Number	2
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	11/18/2022
Fuel Batch Calibration Effective Date	03/01/2023	Fuel Batch Calibration Ineffective Date	03/31/2023
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.74
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17848
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	2M3A01	Fuel Calibration Number	17
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	09/30/2025
Fuel Batch Calibration Effective Date	09/01/2025	Fuel Batch Calibration Ineffective Date	12/22/2023
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	0.825
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.735
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.552	Fuel Carbon Mass Fraction (E10)	0.825
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	1G9-01	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/13/2019
Fuel Batch Calibration Effective Date	01/01/2020	Fuel Batch Calibration Ineffective Date	01/31/2020
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.74
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17841
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	2A5-01	Fuel Calibration Number	3
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/31/2025
Fuel Batch Calibration Effective Date	10/01/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.528	Fuel Carbon Mass Fraction (E10)	0.825

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42						
Consolidated List of Standards									
Exhaust Standards									
Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert						
Vehicle Class	LDV/Passenger Car	Standard Level	California LEV-IV SULEV30						
Fuel	Gasoline	Test Procedure	CA fuel 50 Deg(F) exhaust test						
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	1.0
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008
4,000 miles	NMOG	--	1	1.10	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	1	1.10	--	--	1	--	0.060
4,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region				Federal	Cert/In-Use Code		Cert		
Vehicle Class				LDV/Passenger Car	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
150,000 miles	CREE	--	--	--	--	--	--	0.057	999.9999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0044	999.999
150,000 miles	NMOG+NOX	--	1	1.03	--	--	--	0.0047	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999
Cert Region				California + CAA Section 177 states	Cert/In-Use Code		Cert		
Vehicle Class				LDV/Passenger Car	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	--	--	--	--	--	--	0.04	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0044	999.999
150,000 miles	NMOG+NOX	--	1	1.03	--	--	--	0.0047	0.036
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y			Evaporative/Refueling Family			TTYXR0165J42		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 30		
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.04	1.0	
150,000 miles	CO-COMP	--	--	--	--	--	--	0.04	4.2	
150,000 miles	CREE	--	--	--	--	--	--	0.057	999.9999	
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004	
150,000 miles	METHANE	--	--	--	--	--	--	0.0020	0.030	
150,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010	
150,000 miles	NMOG	--	1	1.10	--	--	--	0.0044	999.999	
150,000 miles	NMOG+NOX	--	1	1.10	--	--	--	0.0047	0.030	
150,000 miles	NMOG+NOX-COMP	--	1	1.03	--	--	--	0.0047	0.040	
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV30		
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.04	1.0	
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004	
150,000 miles	NMOG	--	1	1.10	--	--	--	0.0044	999.999	
150,000 miles	NMOG+NOX	--	1	1.10	--	--	--	0.0047	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.001	

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y			Evaporative/Refueling Family			TTYXR0165J42		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.0000	0.006	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.04	1.0	
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0044	999.999	
150,000 miles	NMOG+NOX	--	1	1.03	--	--	--	0.0047	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	--	--	--	--	--	--	0.01	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.3	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			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	1.03	--	--	--	0.0044	999.999	
150,000 miles	NMOG+NOX	--	1	1.03	--	--	--	0.0047	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999	

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	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	--	--	--	--	--	--	0.01	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family	TTYXR0165J42	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Spitback		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	4,000 miles	SPITBACK	--	1.0	--

Evaporative/Refueling Family	TTYXR0165J42	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000

Evaporative/Refueling Family	TTYXR0165J42	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Evaporative/Refueling Family	TTYXR0165J42	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)
Cert/In-Use Code	Cert	Standard Level	
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42		
Evaporative/Refueling Family	TTYXR0165J42	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap		
Test Procedure	California Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000
Evaporative/Refueling Family	TTYXR0165J42	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
Evaporative/Refueling Family	TTYXR0165J42	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	California Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.01	0.000
Evaporative/Refueling Family	TTYXR0165J42	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap		
Test Procedure	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
Evaporative/Refueling Family	TTYXR0165J42	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family	TTYXR0165J42
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		
Certification Region			

Certification Summary Information Report

Test Group	TTYXJ02.5H3Y	Evaporative/Refueling Family		TTYXR0165J42
CA	California + CAA Section 177 states	FA	Federal	
Exhaust Emission Standard Level				
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125	

Certification Summary Information Report

Test Group		TTYXJ02.5H3Y	Evaporative/Refueling Family		TTYXR0165J42
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		

7. Test Results

Test group: TTYXJ02.5H3X

1. Litmus test result

Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	City Litmus Value	City Litmus Threshold	Highway Litmus Value	Highway Litmus Threshold
Gasoline	TTYX10092531	TTYX10092535	TTYX10092534	TTYX10092532	TTYX10092533	39.8	39.1	33.9	34.1

2. Interim/In-Use Standard

	Federal	California
FTP	Not applicable	PM
FTP (QDA)	-	Not applicable
SFTP (Composite)	Not applicable	-
SFTP (US06)	-	Not applicable

8. **Emission testing waiver statements**

Please refer to the FOI common file for the following test waiver statements:

- High Altitude Exhaust Emissions
- High Altitude Evap/Refueling Emissions
- 91 RON fuel testing
- Formaldehyde (HCHO)
- Spitback
- Tier 3/LEV IV Evaporative Leak Standard
- LEV IV Partial Soak

9. **OBD System Description**

Please refer to OBD documents.

Toyota states that the OBD application meets the requirements of 40 CFR 86.1806-17 and 86.1844-01(d)(9) and is considered part of the Part 1 certification application.

10. **Description of Alternate-fueled Vehicles**

Please refer to the FOI common file.

11. AECD Descriptions

11.1 AECD and EI-AECD Descriptions

Confidential information

11.2 SFTP / Lean Best Torque (LBT) Air fuel Ratio Information

Please refer to the CBI common file.

12. Description of Vehicles Covered by Certificate and Test Parameters

12.1 Vehicle parameters

Durability Group : TTYXHHGNNE25
 Test Group : TTYXJ02.5H3X
 Evap./Refueling Family : TTYXR0165J42
 Emission Control System : DFI+SFI,EGR,EGRC,WR-HO2S(2),TWC(2)

Car line	Model name	Model code	Engine Code	Valves /cyl	Engine Disp. (L)	Sales Area	Transmission*2/ Overdrive	SIL	Tire*1	N/V	ETW (lb.)	Fuel tank volume (L)	Rated HP
RAV4 PHEV AWD	TOYOTA RAV4 PLUG-IN HYBRID XSE AWD	AXAP64L-ANXPBA	01	4	2.487	50	PE10-A (S6-3 SS) / N/A	N/A	235/50R20 AS	24.5	4750	55	186@6000
	TOYOTA RAV4 PLUG-IN HYBRID SE AWD	AXAP64L-ANXSBA	01	4	2.487	50	PE10-A (S6-3 SS) / N/A	N/A	235/60R18 AS	24.5	4750	55	186@6000
RAV4 PHEV AWD GR-S	TOYOTA RAV4 PLUG-IN HYBRID GR-SPORT AWD	AXAP64L-ANXZBA	01	4	2.487	50	PE10-A (S6-3 SS) / N/A	N/A	235/50R20 AS	24.5	4750	55	186@6000
			01	4	2.487	50	PE10-A (S6-3 SS) / N/A	N/A	235/50R20 SM	24.5	4750	55	186@6000
RAV4 PHEV AWD WOODLAND EDITION	TOYOTA RAV4 PLUG-IN HYBRID WOODLAND AWD	AXAP64L-ANXVBA	01	4	2.487	50	PE10-A (S6-3 SS) / N/A	N/A	235/65R18 AS	24.5	4750	55	186@6000

Note*1: AS : All-season tire
 SM : Summer tire
 *2: The number after “-“ indicates the number of transmission mode.

12.2 Test Parameters

Please refer to the FOI common file.

13. Projected Sales and Compliance Plans

Please refer to the CBI common file.

15. Other Information

15.1 Fee filing form

16. Confidential Information

Please refer to the CBI common file.

17. California ARB Information

- 17.1 Statement of Compliance
- 17.2 High-Altitude Test Requirements
- 17.3 Compliance with fuel fill pipe specifications
- 17.4 Compliance with the location requirement of the vent tube opening in the fill pipe
- 17.5 Supplemental information and data for compliance with the enhanced evaporative requirements for California
- 17.6 New unique or changed emission control technology
- 17.7 Service literature

Please refer to the FOI common file.

In addition to the Statement of Compliance in the FOI Common file above, pursuant to 13 CCR §1961.4(d)(4), Toyota states that the vehicles meet the SC03 NMOG+NOx and CO exhaust emissions for vehicles tested using the SC03 test procedures incorporated in the "California 2026 and Subsequent Model Year Criteria Pollutant Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

17.8.1 Emission Control Information Labels

TOYOTA	VEHICLE EMISSION CONTROL INFORMATION	
	TOYOTA MOTOR CORPORATION	
Conforms to regulations 2026	TEST GROUP : TTYXJ02.5H3X EVAP FAMILY : TTYXR0165J42	
U. S. EPA : T3B30 LDV/LDT2	OBD : CA II	Fuel : Gasoline
California : SULEV30 PC/LDT2	OBD : CA II	/Electricity
DFI+SFI, EGR, EGRC, WR-HO2S(2), TWC(2)		
No adjustments needed.		
25390	A25A-FXS	KF

17.8.2 Battery Labels

EV BATTERY INFORMATION 00001
 BIN:082PE994218045E990000001
 CHEM. ID:L IMM(NRMC)-C. F/TMC. 2409
 PACK MINIMUM VOLTAGE:260V
 CELL MINIMUM VOLTAGE:2.5V
 PACK CAPACITY:58 Ah
 VIN:12345678912345678
 URL
 TOYOTA MOTOR CORPORATION




G9600-42180	EV	193kg	RN
BATTERY ASSY, TRACTION			
082PE994218045E990000001			
IND:09-09-2024	P:260V		
LB3F-FX1	C:2.5V		
BML0F			
22.68kWh			
58Ah			
ID	LIMM(NRMC)-C.F/TMC.2409	URL	
TOYOTA MOTOR CORPORATION			



17.9 Service Information Availability

17.10 Identification of AB71-Qualified Vehicles (Mail-Out #MSO-2000-04)

Please refer to the FOI common file.

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

Manufacturer: TOYOTA Exh Test Group: TTYXJ02.5H3X Evap Fam: TTYXR0165J42
 All Eng Codes in Eng Fam: CA ___ 49S ___ 50S x AB965 ___ , ORVR: YES x NO ___
 Exh Std: CA LEVIV: ULEV125 ___ ULEV70 ___ ULEV60 ___ US EPA Tier3 x
 ULEV50 ___ ULEV40 ___
 SULEV30 x SULEV25 ___ SULEV20 ___ SULEV15 ___
 Evap Std: LEVIII (Option 1) ___ LEVIII (Option 2) ___ LEVIV x
 Veh Class(es): PC x*1 LDT1 ___ LDT2 x*2 MDV1 ___ MDV2 ___ MDV3 ___ MDV4 ___ MDV5 ___
 Single Cert Std for Multi-Class Eng Fam: PC/LDT1 (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Fuel Type(s): Dedicated x Flex-Fuel ___ Dual-Fuel ___ Bi-Fuel ___ Gasoline x Diesel ___
 CNG ___ LNG ___ LPG ___ M85 ___ Other (specify) _____
 Exh Emiss Test Fuel(s): Indo ___ CBG x CNG ___ LPG ___ M85 ___ Other (specify) _____
 Diesel: 13 CCR 2282 ___ 40 CFR 86.113-90 ___ 40 CFR 86.113-94 ___
 Evaporative Emission Test Procedure: California x Federal x
 Service Accum: Std AMA ___ Mod AMA ___ Mfr ADP x Other (specify) _____
 NMOG Test Procedure: N/A ___ Std ___ Equip x R/L Test Proc: SHED x Pt Source ___
 Engine Configuration: I-4 Displacement: 2.5 Liters 151.8 Cubic Inches
 Valves per Cylinder: 4 Rated HP: 186@6,000 RPM
 Engine: Front x Mid ___ Rear ___ Drive: FWD ___ RWD ___ 4WD-FT x 4WD-PT ___
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): DFI+SFI,EGR,EGRC,WR-HO2S(2),TWC(2)
 (use abbreviations per SAE J1930 JUN93)

Note *1: RAV4 PHEV AWD GR-S

*2: RAV4 PHEV AWD, RAV4 PHEV AWD WOODLAND EDITION

Section #		Section #	
1	Authorized Representative	FOI-1.2	22 Gen std, increase in Emiss,
2	Fuel Specifications	-	Safety, Meets all Reqm
3	Test Equipment	-	23 Driveability Statement
4	Test Procedure	-	24 Adjustable Parameters
5	Mileage Accumulation Route	CBI-4	25 Tamper Resistance Method(s)
6	Emission Warranty Statement	Part2 FOI-6.00.01	26 Fill Pipe Specifications
7	Maint: Cert/Req'd/Recm'd	-	27 High Altitude Compliance
8	Emiss Label/Vac Hose Diag	-	28 OBD Sys incl Marked Revisions
9	Evap Control System	FOI-3	29 I & M Test Procedure & Data
10	Engine Parameters	5	30 50 Degree F Compliance
11	Fuel System	-	31 Manufacturer's RAF
12	Ignition System	-	32 Phase-In Plans
13	Exhaust Control System	FOI-5	33 NMOG+NOx Fleet Average
14	Proj Sales(LDT/MDV Split)	CBI-17.1	Calculation
15	Vehicle Description	12.1	34 AB965 Credits/Withdrawals
16	Evap Bench Test Procedure	-	35 EPA Certificate
17	R/L Temp & Press Profiles	FOI-4.3	36 Equip NMOG Proc-ARB Approval
18	EDV Selection	-	NMOG/NMHC=
19	Prod Veh same as Test Veh	FOI-17.1	FTP=1.10, SFTP&HWY=1.03
20	Emission Label Durability	-	
		Durability	Emission
		Data	Vehicle
21	Test Vehicle Information	Data	Vehicle
	C/O or C/A MY ID	26D-AP1H	26-AP4H
	Vehicle Log Page(s)	-	6
	Zero Mile Book Page(s)	-	7
	Maint Logs & Engr Eval	-	-
		Emission	Emission
		Data	Vehicle
		Data	Vehicle
		C/O	21-AP2H
		C/O	24-AL1H

Continued on next page.

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

Projected Emissions/ Evaporative

Manufacturer: TOYOTA

Exhaust Test Group: TTYXJ02.5H3X

Evaporative Family: TTYXR0165J42

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

Attestation of compliance with California Inspection and Maintenance emission standards

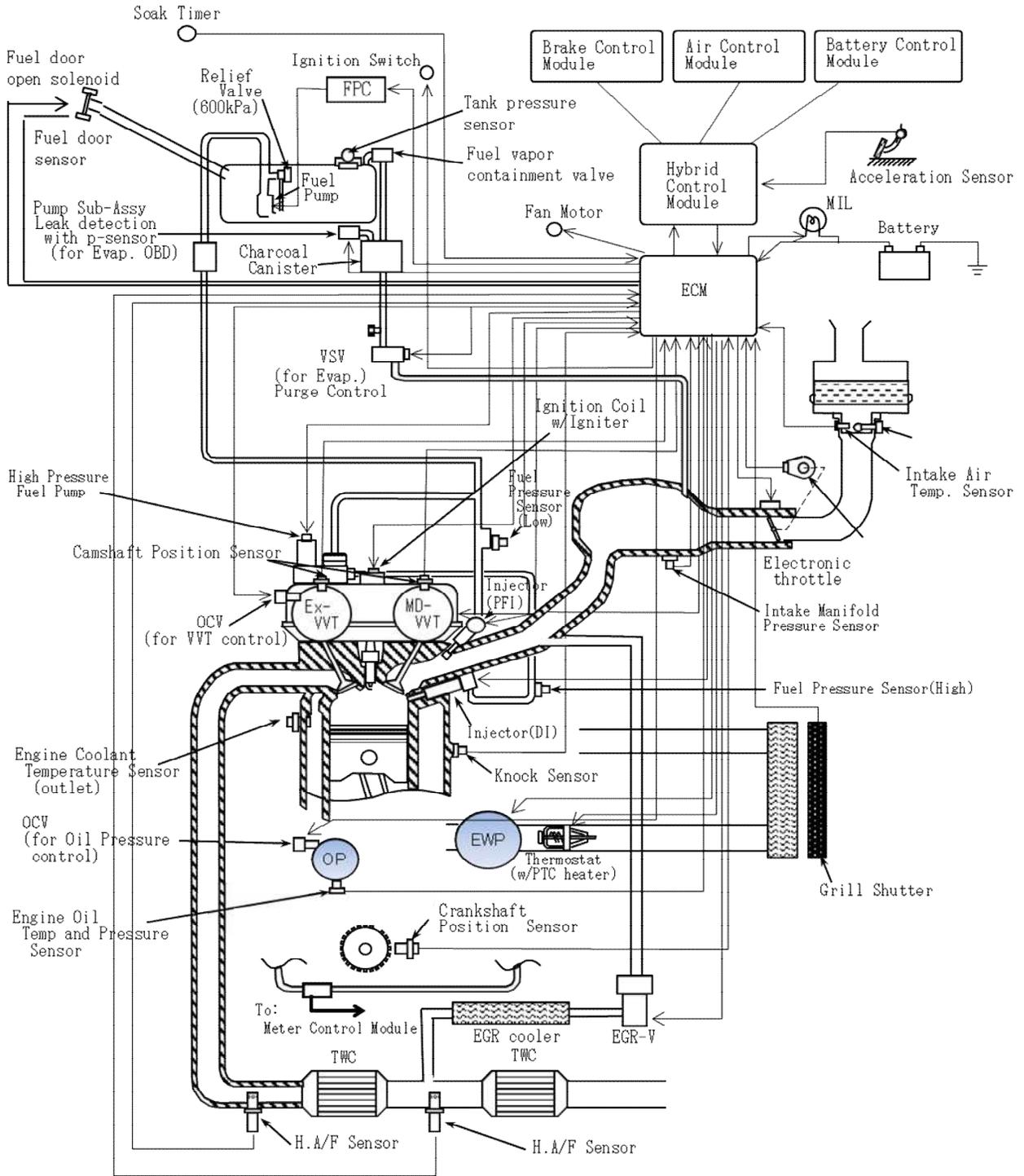
Toyota states that the models in this test group comply with the California Inspection and Maintenance emission requirements base on our good engineering evaluation.

- 17.12 Test group and Evaporative family sales for California
- 17.13 California Phase-in Compliance
- 17.14 Compliance with OBD-II Phase-in Requirements
- 17.15 Hybrid Electric Vehicle information (if applicable)
- 17.16 Warranty information (draft)

Please refer to the CBI common file.

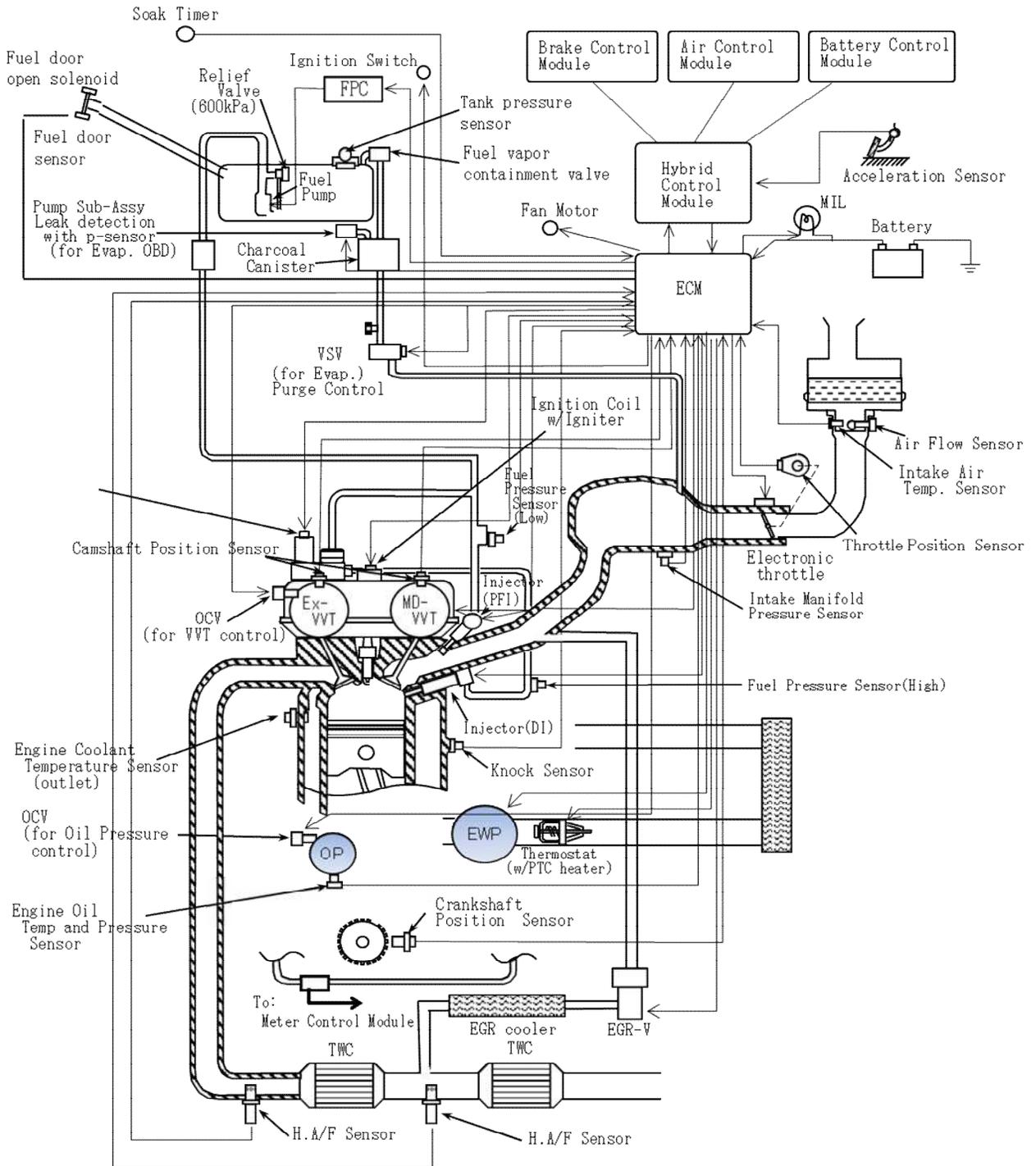
17.17 Engine Control System Schematic

<RAV4 PHEV AWD, RAV4 PHEV AWD WOODLAND EDITION>



17.17 Engine Control System Schematic

<RAV4 PHEV AWD GR-S>



- 17.18 Vehicle Safety
- 01 All Information for Safe Operation of Vehicle
 - 02 Information on Safe Handling of Battery System
 - 03 Description of Emergency Procedure
 - 04 Emergency

Please refer to the owner's manual

18. Information on Service of Process

Please refer to Section 1 of the FOI common file.