

# TOYOTA

## Application For Certification - Part 1 2016 Model Year

**Durability Group** : GTYXHHGNNF27  
**Evap/refueling Families** : GTYXR0130J72  
**Test Group** : GTYXV01.8PC4  
**Durability Group Description** : Four Stroke, Otto Cycle, Gasoline Fueled,  
: Ported FI, Catalyst code : 3-IIZ40+3-IIS38  
**Test Group Description** : 1.8Liter I4 LDV  
**Applicable Standards** : Federal State: Tier2-Bin3 -LDV  
: California : LEVIII-SULEV30 (AT PZEV) -PC  
**Carlines Covered** : PRIUS (Li)  
**Vehicles Tested** :

Vehicle I.D.	Config.	Test	Test Number
16-ZV1H	00	FTP	GTYX10037850
16-ZV1H	00	HWY	GTYX10037849
16-ZV1H	00	SFTP (US06)	GTYX10037848
16-ZV2H	04	SFTP (SC03)	GTYX10038697
16-ZV1H	00	EVAP	GTYX10037860, GTYX10037861
16-ZV1H	00	Running Loss	GTYX10037899
16-ZV1H	00	Refueling	GTYX10037863
16-ZV2H	04	C.CO,C.HC	GTYX10038688

**EPA Response Requested By : October 26, 2015**

**For Questions, Contact : Andrea Frederick 734-995-2586**

**Note :**

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1. **Correspondence and Communications**

Please refer to the FOI common file.

2. **Durability Group Description**

Durability Group Name : GTYXHHGNNF27

Please refer to the common file for details.

3. **Evaporative/Refueling Family Description**

Evaporative/Refueling Family Name : GTYXR0130J72

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 : GTYXV01.8PC4
- 5.2 Engine displacements covered : 1,798 cm<sup>3</sup> (109.7 CID)
- 5.3 Arrangement and number of cylinders : I4
- 5.4 Vehicle class (es) covered : LDV
- 5.5 Federal emission standards class : Tier2-Bin3 -LDV
- 5.6 California emission standards class : LEVIII-SULEV30 (AT PZEV) -PC
- 5.7 Applicable emission standards

Please refer to the Certification Summary Information Report in Section 7.

**6. Test Vehicle Description**

Please refer to section 7 for the following vehicles:

Vehicle ID	Config.	Vehicle Type	Tests Performed
16-ZV1H	00	Cert. Emission	FTP, HwFET, SFTP(US06), 2-Day Evap., 3-Day Evap., Refueling
16-ZV2H	04	Cert. Emission	SFTP(SC03), Cold CO, Cold HC





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**Certification Summary Information Report**

<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72			
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	09/24/2015				
<b>Integrated ORVR?</b>	No	<b>Fuel(s)</b>	Gasoline,Electricity				
<b>Multiple Fuel Storage</b>	Fuels Stored Together						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	EVOH				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	Yes	<b>Air Intake System Vapor Storage Device Description</b>	Carbon filter in the air cleaner box				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	N/A				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	130	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	N/A				
<b>Mfr Evaporative/Refueling Family Comments</b>	--						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	No						
<b>Canister Bleed Test Indicator</b>	No	<b>Applicability of Evaporative Canister Bleed Test</b>	--				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
Toyota Motor Corporation	1 - TOYOTA	61 - PRIUS Eco	Federal	2-Wheel Drive, Front	Continuously Variable	1	No
Toyota Motor Corporation	1 - TOYOTA	61 - PRIUS Eco	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	No
Toyota Motor Corporation	1 - TOYOTA	60 - PRIUS	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	No
Toyota Motor Corporation	1 - TOYOTA	60 - PRIUS	Federal	2-Wheel Drive, Front	Continuously Variable	1	No
<b>Engine Description</b>							
<b>Hybrid Type</b>	IC Engine/Electric Motor		<b>Hybrid Description</b>	--			
<b>Engine Type</b>	4-Stroke Spark Ignition		<b>Mfr Engine Description</b>	--			
<b>Engine Block Arrangement</b>	Inline		<b>Mfr Engine Block Arrangement Description</b>	--			
<b>Camless Valvetrain Indicator</b>	No		<b>Oil Viscosity/Classification</b>	0W-20			
<b>Number of Cylinders/Rotors</b>	4						

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

<b>Test Group</b>		GTYXV01.8PC4			<b>Evaporative/Refueling Family</b>			GTYXR0130J72								
<b>After Treatment Device(s) (ATD)</b>																
<b>ATD Number</b>		<b>ATD Type</b>		<b>ATD Precious Metal</b>		<b>Substrate Material</b>		<b>Substrate Construction</b>								
1		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
2		Three-way catalyst		Platinum + Rhodium		Ceramic		Monolith								
<b>Mfr After Treatment Device (ATD) Comments</b>																
--																
<b>Direct Ozone Reduction (DOR) Device</b>																
Not Equipped																
<b>Mfr Emission Control Device Comments</b>																
--																
<b>Engine Configuration Number 1</b>																
<b>Engine Displacement (liters)</b>		1.8			<b>Engine Rated Horsepower</b>		96									
<b>Number of Inlet Valves Per Cylinder</b>		2			<b>Number of Exhaust Valves Per Cylinder</b>		2									
<b>Air Aspiration Method</b>		Naturally Aspirated			<b>Number of Air Aspiration Devices</b>		N/A									
<b>Air Aspiration Device Configuration</b>		--			<b>Charge Air Cooler Type</b>		N/A									
<b>Cylinder Deactivation Description</b>		N/A			<b>Variable Valve Lift System</b>		N/A									
<b>Variable Valve Timing System Description</b>		Intake			<b>Variable Valve Lift System</b>		N/A									
<b>Number of Knock Sensors</b>		1			<b>Air/Fuel Sensor # 1 Description</b>		N/A									
<b>Air/Fuel Sensor # 1 Type</b>		Heated oxygen			<b>Air/Fuel Sensor # 2 Description</b>		N/A									
<b>Air/Fuel Sensor # 2 Type</b>		Heated air fuel			<b>Air Injection Type</b>		--									
<b>Mfr Air/Fuel Sensor Comments</b>		--			<b>EGR Type</b>		Electronic/Electric									
<b>Exhaust Gas Recirculation</b>		Yes			<b>Air Injection Type</b>		--									
<b>Cooled Exhaust Gas Recirculation</b>		Yes														
<b>Closed Loop Air Injection System</b>		No														
<b>Mfr Engine Configuration Comments</b>		--														
<b>Official Test Numbers</b>																
<b>Test Group Fuel</b>		<b>FTP</b>		<b>US06</b>		<b>SC03</b>		<b>Cold CO</b>		<b>Highway</b>		<b>EPA City Litmus Value</b>	<b>EPA City Litmus Threshold</b>	<b>EPA Highway Litmus Value</b>	<b>EPA Highway Litmus Threshold</b>	<b>CREE Weighting Factor</b>
Electricity		GTYX10037850		GTYX10037848		GTYX10038697		GTYX10038688		GTYX10037849		N/A	N/A	--	N/A	N/A
Gasoline		GTYX10037850		GTYX10037848		GTYX10038697		GTYX10038688		GTYX10037849		189.1	284.3	999.9	628.9	N/A
<b>SFTP LEV-III Official Test Numbers</b>																
<b>Test Group Fuel</b>		<b>FTP</b>			<b>US06</b>			<b>SC03</b>								
Electricity		GTYX10037850			GTYX10037848			GTYX10038697								
Gasoline		GTYX10037850			GTYX10037848			GTYX10038697								

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## Certification Summary Information Report

Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if Other</b>	--
<b>Battery Type</b>	Lithium Ion	<b>Number of Battery Packs</b>	1
<b>Total Voltage of Battery Packs</b>	207	<b>Battery Energy Capacity</b>	3.6
<b>Battery Specific Energy</b>	65.3	<b>Battery Charger Type</b>	On-Board
<b>Number of Capacitors</b>	N/A		
<b>Capacitor Rating (In Farads)</b>	--	<b>Mfr Capacitor Comments</b>	--
<b>Hydraulic System Description</b>			
<b>Regenerative Braking Type</b>	Electrical Regen Brake		
<b>Regenerative Braking Source</b>	Front Wheels	<b>Driver Controlled Regenerative Braking</b>	No
<b>Mfr Regenerative Braking Description</b>	--		
<b>Drive Motor(s)/Generator(s)</b>	1		
<b>Motor/Generator Type 1</b>	AC Induction	<b>Rated Motor/Generator Power</b>	37
<b>Mfr Fuel Cell Description</b>			
<b>Fuel Cell On-Board H2 Storage Capacity (kg)</b>	--	<b>Usable H2 Fill Capacity (kg)</b>	--
<b>Mfr Hybrid Electric/ Electric Vehicle Comments</b>			

7. Test Results

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Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72										
<b>Emission Data Vehicle Information</b>														
<b>Vehicle ID / Configuration</b>	16-ZV1H / 0													
<b>Vehicle Model</b>														
<b>Represented Test Vehicle Make</b>	TOYOTA		<b>Represented Test Vehicle Model</b>	PRIUS										
<b>Leak Family Details</b>														
<b>Leak Family Identifier</b>	--		<b>Leak Family Name</b>	--										
<b>Drive Sources and Fuel System Details</b>														
	<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>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>		Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity			
Drive Source and Fuel#	Drive Source	Fuel												
1	Combustion Engine	Gasoline												
2	Electric Motor	Electricity												
<b>Hybrid Indicator</b>	Y		<b>Multiple Fuel Combustion</b>	--										
<b>Multiple Fuel Storage</b>	--		<b>Rechargeable Energy Storage System Indicator</b>	Y										
<b>Fuel Cell Indicator</b>	N		<b>Rechargeable Energy Storage System, if 'Other'</b>	--										
<b>Rechargeable Energy Storage System</b>	Battery(s)													
<b>Off-board charge Capable Indicator</b>	N		<b># of Transmission Gears</b>	1										
<b>Transmission Type</b>	Continuously Variable		<b>Axle Ratio</b>	2.83										
<b>Engine Code</b>	01		<b>Rated Horsepower</b>	96										
<b>Displacement (liters)</b>	1.798		<b>Air Aspiration Method</b>	Naturally Aspirated										
<b>Equivalent Test Weight (pounds)</b>	3375		<b>SIL Usage</b>	Not equipped										
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front													
<b>Aged Emission Components</b>	4,000 (mi)													
<b>Dynamometer Coefficients:</b>														
	<b>Target Coefficients</b>			<b>Set Coefficients</b>			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>							
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>								
<b>City/Highway/Evap</b>	24.153	0.33502	0.014096	10.116	0.1598	0.015033								
<b>US06</b>	24.153	0.33502	0.014096	10.116	0.1598	0.015033	N/A							
<b>Manufacturer Test Vehicle Comments</b>	POWER SHIFT PATTERN													

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4	<b>Evaporative/Refueling Family</b>	GTYXR0130J72
<b>Test #</b>	GTYX10037850	<b>Test Procedure</b>	<b>35 - California fuel 3-day exhaust</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	09/04/2015	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Higashifuji Technical Center		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Results</b>			
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE MPG Equivalent Value</b>
	Bag 1 Carbon Dioxide	0	--
	Bag 1 Fuel Economy	999	999
	Bag 2 Carbon Dioxide	0	--
	Bag 2 Fuel Economy	999	999
	Bag 3 Carbon Dioxide	0	--
	Bag 3 Fuel Economy	999	999
	Bag 4 Carbon Dioxide	0	--
	Bag 4 Fuel Economy	999	999
	CH4 - Methane	0.002146	--
	Carbon Monoxide	0.0745335	--
	Drive Trace Absolute Speed Change Rating	0.59	--
	Drive Trace Energy Economy Rating	-0.05	--
	Drive Trace Inertia Work Ratio Rating	0.83	--
	Manufacturer Fuel Economy	999	999
	Nitrogen Oxide	0.0011416	--
	Nitrous Oxide	0.000327	--
	Non-methane Hydrocarbon	0.0102723	--
	Non-methane organic gas (California)	0.0112996	--
	Particulate Matter	0.0002468	--
	Total Hydrocarbon	0.0123289	--
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>
	Carbon-Related Exhaust Emissions	0	999
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
	Carbon dioxide	120.1908714	--
<b>Manufacturer Test Comments</b>	NMOG = HC-NM x 1.10		

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

Test Group		GTYXV01.8PC4		Evaporative/Refueling Family						GTYXR0130J72		
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 2 Bin 3	CO	0.07	--	--	--	0.07	--	0.1	2.1	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	CO-COMP	0.14	--	--	--	--	--	0.1	3.5	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	CREE	999	--	--	--	0.075	--	999	--	--
Fed	150,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX-COMP	0.014	--	--	--	--	--	0.01	0.62	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	METHANE	0.0021	--	--	--	0.0010	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	NMOG	0.0113	1	1.04	--	0.0047	--	0.016	0.055	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	NOX	0.001	--	--	--	0.0006	--	0.00	0.03	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	PM	0.000	--	--	--	0.0002	--	0.00	0.01	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.07	--	--	--	0.07	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.14	--	--	--	0.07	--	0.1	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0113	1	1.10	--	0.0047	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0124	1	1.10	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0147	1	1.03	--	0.0053	--	0.015	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0011	--	--	--	0.0006	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0002	--	--	--	0.0002	--	0.000	0.003	Pass

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

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4	<b>Evaporative/Refueling Family</b>	GTYXR0130J72
<b>Test #</b>	<b>GTYX10037849</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	09/04/2015	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Higashifuji Technical Center		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Results</b>			
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE MPG Equivalent Value</b>
	CH4 - Methane	0.001399	--
	Carbon Monoxide	0.0314332	--
	Drive Trace Absolute Speed Change Rating	1.45	--
	Drive Trace Energy Economy Rating	0.05	--
	Drive Trace Inertia Work Ratio Rating	1.76	--
	Manufacturer Fuel Economy	999	999
	Nitrogen Oxide	0.0000692	--
	Nitrous Oxide	0	--
	Non-methane Hydrocarbon	0.0029513	--
	Non-methane organic gas (California)	0.0030398	--
	Total Hydrocarbon	0.004292	--
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>
	Carbon-Related Exhaust Emissions	0	999
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
	Carbon dioxide	127.5819459	--
<b>Manufacturer Test Comments</b>	NMOG = HC-NM x 1.03		



7. Test Results

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Certification Summary Information Report

Test Group		GTYXV01.8PC4					Evaporative/Refueling Family				GTYXR0130J72	
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 2 Bin 3	CREE	999	--	--	--	0.075	--	999	--	--
Fed	150,000 miles	Federal Tier 2 Bin 3	NOX	0.000	--	--	--	0.0006	--	0.00	0.04	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0030	1	1.03	--	0.0047	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0031	1	1.03	--	--	--	0.008	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0001	--	--	--	0.0006	--	0.001	999.999	Pass

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

**Test #** GTYX10037860 **Test Procedure** 27 - California fuel 2-day evap  
**Exhaust Test # for this Evap Test** GTYX10037853 **Test Fuel Type** 46 - CARB LEV3 E10 Regular Gasoline  
**Test Date** 09/08/2015 **Fuel** Gasoline  
**Vehicle Class** N/A **DF Type** Mfr. Determined  
**Verify Test Lab ID** Higashifuji Technical Center  
**E10 Evaporative Test Measurement Method** Actual Total Hydrocarbon Equivalent Measurement (with speciation)  
**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Total Hydrocarbon equivalent - Evap only	0.1176	--

**Manufacturer Test Comments** HSL=0.0089, 1ST DBL=0.1088, 2ND DBL=0.0964, 1ST DBL IS ADD KEY OFF MONITOR LOSS(0.0017GRAM)

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal LEV-II Evap	HC-TOTAL-EQUIV	0.118	0.000	0.12	0.65	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1176	0.000	0.118	0.300	Pass

7. Test Results

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<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72							
<b>Test #</b>	GTYX10037861		<b>Test Procedure</b>	38 - CA fuel 3-day evap.							
<b>Exhaust Test # for this Evap Test</b>	GTYX10037852		<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline							
<b>Test Date</b>	09/15/2015		<b>Fuel</b>	Gasoline							
<b>Vehicle Class</b>	N/A		<b>DF Type</b>	Mfr. Determined							
<b>Verify Test Lab ID</b>	Higashifuji Technical Center										
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)										
<b>Test Results</b>											
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE MPG Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>Total Hydrocarbon equivalent - Evap only</td> <td>0.1316</td> <td>--</td> </tr> </tbody> </table>						Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value	Total Hydrocarbon equivalent - Evap only	0.1316	--
Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value									
Total Hydrocarbon equivalent - Evap only	0.1316	--									
<b>Manufacturer Test Comments</b>	HSL=0.0226, 1ST DBL=0.1090, 2ND DBL=0.0885, 3RD DBL=0.0851, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0017GRAM)										
<b>Certification Region</b>	<b>Useful Life</b>	<b>Standard Level</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Add DF</b>	<b>Certification Level</b>	<b>Standard</b>	<b>Pass/Fail</b>			
Fed	120,000 miles	Federal LEV-II Evap	HC-TOTAL-EQUIV	0.132	0.000	0.13	0.50	Pass			
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1316	0.000	0.132	0.300	Pass			

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:56 AM

**Certification Summary Information Report**

<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72							
<b>Test #</b>	GTYX10037863		<b>Test Procedure</b>	24 - Federal fuel refueling test (ORVR)							
<b>Exhaust Test # for this Evap Test</b>	GTYX10037853		<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline							
<b>Test Date</b>	06/09/2015		<b>Fuel</b>	Gasoline							
<b>Vehicle Class</b>	N/A		<b>DF Type</b>	Mfr. Determined							
<b>Verify Test Lab ID</b>	Higashifuji Technical Center										
<b>E10 Evaporative Test Measurement Method</b>	--										
<b>Test Results</b>											
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE MPG Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>Hydrocarbon for Running Loss and ORVR</td> <td>0.0085961</td> <td>--</td> </tr> </tbody> </table>						Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value	Hydrocarbon for Running Loss and ORVR	0.0085961	--
Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value									
Hydrocarbon for Running Loss and ORVR	0.0085961	--									
<b>Manufacturer Test Comments</b>	WITH 1200BV BENCH PURGE										
<b>Certification</b>											
<b>Region</b>	<b>Useful Life</b>	<b>Standard Level</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Add DF</b>	<b>Certification Level</b>	<b>Standard</b>	<b>Pass/Fail</b>			
Fed	120,000 miles	Federal LEV-II Evap	HC	0.009	0.000	0.01	0.20	Pass			
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.009	0.000	0.01	0.20	Pass			

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:57 AM

**Certification Summary Information Report**

<b>Test Group</b>	GTYXV01.8PC4	<b>Evaporative/Refueling Family</b>	GTYXR0130J72																											
<b>Test #</b>	<b>GTYX10037899</b>	<b>Test Procedure</b>	<b>37 - California Fuel Running Loss</b>																											
<b>Exhaust Test # for this Evap Test</b>	GTYX10037852	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline																											
<b>Test Date</b>	09/15/2015	<b>Fuel</b>	Gasoline																											
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined																											
<b>Verify Test Lab ID</b>	Higashifuji Technical Center																													
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)																													
<b>Test Results</b>																														
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE MPG Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>Total Hydrocarbon equivalent - Evap only</td> <td>0</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value	Total Hydrocarbon equivalent - Evap only	0	--																					
Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value																												
Total Hydrocarbon equivalent - Evap only	0	--																												
<b>Manufacturer Test Comments</b> --																														
<table border="1"> <thead> <tr> <th>Certification Region</th> <th>Useful Life</th> <th>Standard Level</th> <th>Emission Name</th> <th>Rounded Result</th> <th>Add DF</th> <th>Certification Level</th> <th>Standard</th> <th>Pass/Fail</th> </tr> </thead> <tbody> <tr> <td>Fed</td> <td>120,000 miles</td> <td>Federal LEV-II Evap</td> <td>HC-TOTAL-EQUIV</td> <td>0.000</td> <td>0.000</td> <td>0.00</td> <td>0.05</td> <td>Pass</td> </tr> <tr> <td>CA</td> <td>150,000 miles</td> <td>California LEV-III Zero Evap (Option 2)</td> <td>HC-TOTAL-EQUIV</td> <td>0.000</td> <td>0.000</td> <td>0.00</td> <td>0.05</td> <td>Pass</td> </tr> </tbody> </table>				Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	Fed	120,000 miles	Federal LEV-II Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass	CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail																						
Fed	120,000 miles	Federal LEV-II Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass																						
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass																						

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:57 AM

Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72								
<b>Test #</b>	GTYX10037848		<b>Test Procedure</b>	90 - US06								
<b>Exhaust Test # for this Evap Test</b>	N/A		<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline								
<b>Test Date</b>	09/11/2015		<b>Fuel</b>	Gasoline								
<b>Vehicle Class</b>	LDV/Passenger Car		<b>DF Type</b>	Mfr. Determined								
<b>Verify Test Lab ID</b>	Higashifuji Technical Center											
<b>E10 Evaporative Test Measurement Method</b>	--											
<b>Test Results</b>												
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE MPG Equivalent Value</b>									
	Bag 1 Carbon Dioxide	0	--									
	Bag 1 Fuel Economy	999	999									
	Bag 2 Carbon Dioxide	0	--									
	Bag 2 Fuel Economy	999	999									
	Carbon Monoxide	0.1069287	--									
	Drive Trace Absolute Speed Change Rating	1.91	--									
	Drive Trace Energy Economy Rating	0.23	--									
	Drive Trace Inertia Work Ratio Rating	2.57	--									
	Manufacturer Fuel Economy	999	999									
	Nitrogen Oxide	0.0012565	--									
	Non-methane Hydrocarbon	0.009338	--									
	Non-methane organic gas (California)	0.0096181	--									
	Particulate Matter	0.0001976	--									
	Total Hydrocarbon	0.0109699	--									
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>									
	Carbon dioxide	193.2406158	--									
<b>Manufacturer Test Comments</b>	NMOG = HC-NM x 1.03											
<b>Certification Region</b>	<b>Useful Life</b>	<b>Standard Level</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG/NM HC Ratio</b>	<b>Diesel Adjustment Factor</b>	<b>Add DF</b>	<b>Mult DF</b>	<b>Certification Level</b>	<b>Standard</b>	<b>Pass/Fail</b>
Fed	4,000 miles	Federal Tier 2 Bin 3	CO	0.11	--	--	--	--	--	0.1	8.0	Pass
Fed	4,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX	0.010	--	--	--	--	--	0.01	0.14	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0002	--	--	--	0.0002	--	0.000	0.010	Pass

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:57 AM

Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4			<b>Evaporative/Refueling Family</b>	GTYXR0130J72		
<b>Emission Data Vehicle Information</b>							
<b>Vehicle ID / Configuration</b>	16-ZV2H / 4						
<b>Vehicle Model</b>							
<b>Represented Test Vehicle Make</b>	TOYOTA			<b>Represented Test Vehicle Model</b>	PRIUS		
<b>Leak Family Details</b>							
<b>Leak Family Identifier</b>	--			<b>Leak Family Name</b>	--		
<b>Drive Sources and Fuel System Details</b>							
	<b>Drive Source and Fuel#</b>		<b>Drive Source</b>		<b>Fuel</b>		
	1		Electric Motor		Electricity		
	2		Combustion Engine		Gasoline		
<b>Hybrid Indicator</b>	Y						
<b>Multiple Fuel Storage</b>	--						
<b>Fuel Cell Indicator</b>	N						
<b>Rechargeable Energy Storage System</b>	Battery(s)			<b>Multiple Fuel Combustion</b>	--		
<b>Off-board charge Capable Indicator</b>	N						
<b>Transmission Type</b>	Continuously Variable			<b>Rechargeable Energy Storage System Indicator</b>	Y		
<b>Engine Code</b>	01						
<b>Displacement (liters)</b>	1.798						
<b>Equivalent Test Weight (pounds)</b>	3375						
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front			<b>Rechargeable Energy Storage System, if 'Other'</b>	--		
<b>Aged Emission Components</b>	4,000 (mi)						
<b>Transmission Type</b>	Continuously Variable			<b># of Transmission Gears</b>	1		
<b>Engine Code</b>	01						
<b>Displacement (liters)</b>	1.798						
<b>Equivalent Test Weight (pounds)</b>	3375						
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front			<b>Axle Ratio</b>	2.83		
<b>Aged Emission Components</b>	4,000 (mi)						
<b>Engine Code</b>	01						
<b>Displacement (liters)</b>	1.798						
<b>Equivalent Test Weight (pounds)</b>	3375						
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front			<b>Rated Horsepower</b>	96		
<b>Aged Emission Components</b>	4,000 (mi)						
<b>Engine Code</b>	01						
<b>Displacement (liters)</b>	1.798						
<b>Equivalent Test Weight (pounds)</b>	3375						
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front			<b>Air Aspiration Method</b>	Naturally Aspirated		
<b>Aged Emission Components</b>	4,000 (mi)						
<b>Engine Code</b>	01						
<b>Displacement (liters)</b>	1.798						
<b>Equivalent Test Weight (pounds)</b>	3375						
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front			<b>SIL Usage</b>	Not equipped		
<b>Aged Emission Components</b>	4,000 (mi)						
<b>Dynamometer Coefficients:</b>							
	<b>Target Coefficients</b>			<b>Set Coefficients</b>			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	
<b>City/Highway/Evap</b>	24.153	0.33502	0.014096	10.116	0.1598	0.015033	
<b>Cold CO</b>	26.837	0.37224	0.015662	8.14	-0.00597	0.018305	N/A
<b>Manufacturer Test Vehicle Comments</b>	POWER SHIFT PATTERN						

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:57 AM

Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72								
<b>Test #</b>	GTYX10038688		<b>Test Procedure</b>	11 - Cold CO								
<b>Exhaust Test # for this Evap Test</b>	N/A		<b>Test Fuel Type</b>	26 - Cold CO Regular (Tier 2)								
<b>Test Date</b>	09/04/2015		<b>Fuel</b>	Gasoline								
<b>Vehicle Class</b>	LDV/Passenger Car		<b>DF Type</b>	Mfr. Determined								
<b>Verify Test Lab ID</b>	HigashiFuji Technical Center											
<b>E10 Evaporative Test Measurement Method</b>	--											
<b>Test Results</b>												
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE MPG Equivalent Value</b>									
	Bag 1 Carbon Dioxide	266.7326	--									
	Bag 1 Fuel Economy	31.895716	31.895716									
	Bag 2 Carbon Dioxide	146.1909	--									
	Bag 2 Fuel Economy	60.1230587	60.1230587									
	Bag 3 Carbon Dioxide	179.4995	--									
	Bag 3 Fuel Economy	49.0213796	49.0213796									
	Bag 4 Carbon Dioxide	112.4669	--									
	Bag 4 Fuel Economy	77.9832074	77.9832074									
	Carbon Monoxide	1.0251984	--									
	Drive Trace Absolute Speed Change Rating	1.48	--									
	Drive Trace Energy Economy Rating	0.57	--									
	Drive Trace Inertia Work Ratio Rating	2.1	--									
	Manufacturer Fuel Economy	51.0675206	51.0675206									
	Nitrogen Oxide	0.0173319	--									
	Non-methane Hydrocarbon	0.1675061	--									
	Total Hydrocarbon	0.1772504	--									
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>									
	Carbon dioxide	170.3613598	--									
<b>Manufacturer Test Comments</b>	--											
<b>Certification Region</b>	<b>Useful Life</b>	<b>Standard Level</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG/NM HC Ratio</b>	<b>Diesel Adjustment Factor</b>	<b>Add DF</b>	<b>Mult DF</b>	<b>Certification Level</b>	<b>Standard</b>	<b>Pass/Fail</b>
Fed	50,000 miles	Federal Tier 2 Bin 3	CO	1.03	--	--	--	0.02	--	1.0	10.0	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	HC-NM	0.17	--	--	--	0.00	--	0.2	0.3	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	1.03	--	--	--	0.02	--	1.0	10.0	Pass

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:57 AM

Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72								
<b>Test #</b>	GTYX10038697		<b>Test Procedure</b>	95 - SC03								
<b>Exhaust Test # for this Evap Test</b>	N/A		<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline								
<b>Test Date</b>	09/02/2015		<b>Fuel</b>	Gasoline								
<b>Vehicle Class</b>	LDV/Passenger Car		<b>DF Type</b>	Mfr. Determined								
<b>Verify Test Lab ID</b>	Higashifuji Technical Center											
<b>E10 Evaporative Test Measurement Method</b>	--											
<b>Test Results</b>												
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE MPG Equivalent Value</b>									
	Carbon Monoxide	0.041801	--									
	Drive Trace Absolute Speed Change Rating	0.88	--									
	Drive Trace Energy Economy Rating	0.12	--									
	Drive Trace Inertia Work Ratio Rating	1.27	--									
	Manufacturer Fuel Economy	51.0498305	51.0498305									
	Nitrogen Oxide	0.001992	--									
	Non-methane Hydrocarbon	0.00319	--									
	Total Hydrocarbon	0.005169	--									
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>									
	Carbon dioxide	169.405675	--									
<b>Manufacturer Test Comments</b>	--											
<b>Certification Region</b>	<b>Useful Life</b>	<b>Standard Level</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG/NM HC Ratio</b>	<b>Diesel Adjustment Factor</b>	<b>Add DF</b>	<b>Mult DF</b>	<b>Certification Level</b>	<b>Standard</b>	<b>Pass/Fail</b>
Fed	4,000 miles	Federal Tier 2 Bin 3	CO	0.04	--	--	--	--	--	0.0	2.7	Pass
Fed	4,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX	0.005	--	--	--	--	--	0.00	0.20	Pass



7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

Certification Summary Information Report

Test Group		GTYXV01.8PC4			Evaporative/Refueling Family			GTYXR0130J72		
Consolidated List of Standards										
<b>Exhaust Standards</b>										
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 2 Bin 3		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			California fuel 3-day exhaust		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.07	2.1	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	3.5	
150,000 miles	CREE	--	--	--	--	--	--	0.075	999.9999	
150,000 miles	HC-NM+NOX-COMP	--	--	--	--	--	--	--	0.62	
150,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.011	
150,000 miles	METHANE	--	--	--	--	--	--	0.0010	0.030	
150,000 miles	N2O	--	--	--	--	--	--	--	0.010	
150,000 miles	NMOG	--	1	1.04	--	--	--	0.0047	0.055	
150,000 miles	NOX	--	--	--	--	--	--	0.0006	0.03	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.01	
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 2 Bin 3		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			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	--	--	--	--	--	--	0.075	999.9999	
150,000 miles	NOX	--	--	--	--	--	--	0.0006	0.04	
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 2 Bin 3		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
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	--	--	--	--	--	--	--	2.7	
4,000 miles	HC-NM+NOX	--	--	--	--	--	--	--	0.20	

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

Certification Summary Information Report

<b>Test Group</b>		GTYXV01.8PC4			<b>Evaporative/Refueling Family</b>			GTYXR0130J72		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 2 Bin 3		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			CST two speed idle test		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
120,000 miles	CO	--	--	--	--	--	--	--	0.5	
120,000 miles	HC-TOTAL	--	--	--	--	--	--	--	100	
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0047	999.999	
150,000 miles	NMOG+NOX	--	1	1.03	--	--	--	0.0053	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999	
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			California fuel 3-day exhaust		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.07	1.0	
150,000 miles	CO-COMP	--	--	--	--	--	--	0.07	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.004	
150,000 miles	NMOG	--	1	1.10	--	--	--	0.0047	999.999	
150,000 miles	NMOG+NOX	--	1	1.10	--	--	--	0.0053	0.030	
150,000 miles	NMOG+NOX-COMP	--	1	1.03	--	--	--	0.0053	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003	

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

Certification Summary Information Report

Test Group		GTYXV01.8PC4			Evaporative/Refueling Family			GTYXR0130J72		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III 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	--	--	--	--	--	--	0.02	10.0	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III 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	PM	--	--	--	--	--	--	0.0002	0.010	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III 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	--	--	--	--	--	--	0.00	1.0	
4,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.008	
4,000 miles	NMOG	--	1	1.10	--	--	--	0.0000	999.999	
4,000 miles	NMOG+NOX	--	1	1.10	--	--	--	0.0000	0.060	
4,000 miles	NOX	--	--	--	--	--	--	0.0000	999.999	
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 3		
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	
4,000 miles	CO	--	--	--	--	--	--	--	8.0	
4,000 miles	HC-NM+NOX	--	--	--	--	--	--	--	0.14	

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

Certification Summary Information Report

<b>Test Group</b>		GTYXV01.8PC4			<b>Evaporative/Refueling Family</b>		GTYXR0130J72		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>		Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>		Federal Tier 2 Bin 3		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>		Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0
150,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.3
<b>Evaporative/Refueling Standards</b>									
<b>Evaporative/Refueling Family</b>		GTYXR0130J72			<b>Cert Region</b>		Federal		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>		Federal LEV-II Evap		
<b>Test Procedure</b>		California Fuel Running Loss							
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>				
Gasoline	120,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000				
<b>Evaporative/Refueling Family</b>		GTYXR0130J72			<b>Cert Region</b>		Federal		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>		Federal LEV-II Evap		
<b>Test Procedure</b>		Spitback							
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>				
Gasoline	120,000 miles	SPITBACK	--	1.0	0.000				
<b>Evaporative/Refueling Family</b>		GTYXR0130J72			<b>Cert Region</b>		Federal		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>		Federal LEV-II Evap		
<b>Test Procedure</b>		CA fuel 3-day evap.							
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>				
Gasoline	120,000 miles	HC-TOTAL-EQUIV	--	0.50	0.000				
<b>Evaporative/Refueling Family</b>		GTYXR0130J72			<b>Cert Region</b>		Federal		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>		Federal LEV-II Evap		
<b>Test Procedure</b>		California fuel 2-day evap							
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>				
Gasoline	120,000 miles	HC-TOTAL-EQUIV	--	0.65	0.000				

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4		<b>Evaporative/Refueling Family</b>	GTYXR0130J72		
<b>Evaporative/Refueling Family</b>	GTYXR0130J72		<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both		<b>Standard Level</b>	Federal LEV-II Evap		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)					
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>	
Gasoline	120,000 miles	HC	--	0.20	0.000	
<b>Evaporative/Refueling Family</b>	GTYXR0130J72		<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Both		<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	California fuel 2-day evap					
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.000	
<b>Evaporative/Refueling Family</b>	GTYXR0130J72		<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Both		<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)					
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>	
Gasoline	150,000 miles	HC	--	0.20	0.000	
<b>Evaporative/Refueling Family</b>	GTYXR0130J72		<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Both		<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	California Fuel Running Loss					
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000	
<b>Evaporative/Refueling Family</b>	GTYXR0130J72		<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Both		<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	CA fuel 3-day evap.					
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.000	

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

**Certification Summary Information Report**

Test Group		Evaporative/Refueling Family	
GTYXV01.8PC4		GTYXR0130J72	
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	METHANOL	CH3OH - Methanol
CO	Carbon Monoxide	N2O	Nitrous Oxide
CO2	Carbon dioxide	SPITBACK	Spitback Hydrocarbon in grams
CREE	Carbon-Related Exhaust Emissions	AMP-HRS	Integrated Amp-hours
OPT-CREE	Optional Carbon-Related Exhaust Emissions	START-SOC	System Start State of Charge Watt-hours
NOX	Nitrogen Oxide	END-SOC	System End State of Charge Watt-hours
PM	Particulate Matter	ACT-DISTANCE	Actual Distance Driven (miles)
PM-COMP	SFTP Composite Particulate Matter	AS-VOLT	Average System Voltage
HC-NM	Non-methane Hydrocarbon	CO2 BAG 1	Bag 1 Carbon Dioxide
OMHCE	Organic material Hydrocarbon Equivalent	CO2 BAG 2	Bag 2 Carbon Dioxide
OMNMHCE	Organic material non-methane HC equivalent	CO2 BAG 3	Bag 3 Carbon Dioxide
NMOG	Non-methane organic gas (California)	CO2 BAG 4	Bag 4 Carbon Dioxide
HCHO	Formaldehyde	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
H3C2HO	Acetaldehyde	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	DT-ASCR	Drive Trace Absolute Speed Change Rating
CO-COMP	SFTP Composite Carbon Monoxide	DT-EER	Drive Trace Energy Economy Rating
ETHANOL	C2H5OH - Ethanol	COMB-CREE	Combined Carbon-Related Exhaust Emissions
FE BAG 1	Bag 1 Fuel Economy	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
FE BAG 2	Bag 2 Fuel Economy	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
FE BAG 3	Bag 3 Fuel Economy	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
FE BAG 4	Bag 4 Fuel Economy	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
MFR FE	Manufacturer Fuel Economy	LEAK-DIA	Effective Leak Diameter (inches)
HC	Hydrocarbon for Running Loss and ORVR	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
METHANE	CH4 - Methane		
<b>Certification Region</b>			
CA	California + CAA Section 177 states	FA	Federal
<b>Exhaust Emission Standard Level</b>			
B1	Federal Tier 2 Bin 1	L3ULEV340	California LEV-III ULEV340
B2	Federal Tier 2 Bin 2	L3ULEV250	California LEV-III ULEV250
B3	Federal Tier 2 Bin 3	L3ULEV200	California LEV-III ULEV200
B4	Federal Tier 2 Bin 4	L3SULEV170	California LEV-III SULEV170
B5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150

7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

**Certification Summary Information Report**

Test Group		GTYXV01.8PC4	Evaporative/Refueling Family		GTYXR0130J72
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
<b>Transmission Type Code</b>					
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)		
<b>Drive System Code</b>					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

## 7. Test Results

Test group: GTYXV01.8PC4

Date: 09/30/2015 04:46:58 AM

### Certification Summary Information Report

<b>Test Group</b>	GTYXV01.8PC4	<b>Evaporative/Refueling Family</b>	GTYXR0130J72
<b>Additional Terms and Acronyms</b>			
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



**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
- Certification Short Test
- Idle CO for LDTs
- Formaldehyde (HCHO)
- Nitrous Oxide (N<sub>2</sub>O)
- Spitback
- Total Hydrocarbon (THC)

9. **OBD System Description**

Please refer to the CBI common file for the common information.

The representative test group OBD application is uploaded into Verify system.

Please refer to the file named below.

***File name: OBD\_GTYXV02.5PC4\_A-L.pdf***

Toyota states that the OBD application meets the requirements of 40 CFR 86.1806-05 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. **Auxiliary Emission Control Devices (AECD) Descriptions**

Please refer to the CBI common file.

**12. Description of Vehicles Covered by Certificate**

12.1 Vehicle parameters

Durability Group : GTYXHHGNNF27  
 Test Group : GTYXV01.8PC4  
 Evap./Refueling Family : GTYXR0130J72  
 Emission Control System : SFI,EGR,EGRC,WR-HO2S,TWC(2),HO2S

Carline	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 vol. (L)
PRIUS	TOYOTA PRIUS THREE/FOUR	ZVW51L-AHXGBA	01	4	1.798	50	P610 (AV-3) / N/A	N/A	P195/65R15 AS	20.0	3375	43
			01	4	1.798	50	P610 (AV-3) / N/A	N/A	P215/45R17 AS	20.1	3375	43
	TOYOTA PRIUS THREE TOURING/FOUR TOURING	ZVW51L-AHXHBA	01	4	1.798	50	P610 (AV-3) / N/A	N/A	P215/45R17 AS	20.1	3375	43
PRIUS Eco	TOYOTA PRIUS TWO ECO	ZVW51L-AHXBBA	01	4	1.798	50	P610 (AV-3) / N/A	N/A	P195/65R15 AS	20.0	3250	43

Note\*1: AS : All-season 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.

14. Request for Certificate

Test group : GTYXV01.8PC4  
 Evap/refueling family : GTYXR0130J72

TOYOTA MOTOR CORPORATION requests that EPA issue a 2016 model year certificate of conformity for the above specified test group/evaporative family combination more fully described in this application. This combination complies with the following emission standards:

	low-altitude	high altitude	Bin No
Federal: Tier1	_____	_____	
InterimNon-Tier2	_____	_____	
Tier2	_____ X _____	_____ X _____	_____ 3 _____
California:			
LEVI : LEV	_____	ULEV _____	
LEVII : LEV	_____	ULEV _____	
SULEV	_____	PZEV _____	
LEVIII : LEV160	_____	ULEV125 _____	
ULEV70	_____	ULEV50 _____	
SULEV30(AT PZEV)	_____ X _____	SULEV20 _____	

This combination meet all applicable regulations contained within 40 CFR Part 85, 86, and 600, the application is current as of this date.







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Kevin Webber  
 General Manager  
 Toyota Technical Center U.S.A. Inc.

15. **Other Information**

15.1 Fee filing form

	U.S. Environmental Protection Agency Motor Vehicle and Engine Compliance Program <b>On-Highway Fee Filing Form</b> For Certification Applications Received In Calendar Year 2015													
Manufacturer Name <u>Toyota Motor Engineering &amp; Mfg. NA, Inc. (TEMA) - TTC</u>														
Address <u>1555 Woodridge Ave.</u>														
City/State/Zip Code/Country <u>Ann Arbor, MI 48105 (USA)</u>														
On-Highway Certification Request Type (check one)														
<input checked="" type="checkbox"/> LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL (\$26,741) <input type="checkbox"/> HDV EVAP-ONLY (\$563)														
<input type="checkbox"/> LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY (\$14,193) <input type="checkbox"/> HDE CALIF-ONLY (\$563)														
<input type="checkbox"/> HDE (Engine Dyno cert) FEDERAL (\$47,664) <input type="checkbox"/> MOTORCYCLE (\$1,852)														
<input type="checkbox"/> LD/MDPV/HDV ICI (\$76,399)														
EPA standard family or test group:		<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="padding: 2px;">G</td> <td style="padding: 2px;">T</td> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">X</td> <td style="padding: 2px;">V</td> <td style="padding: 2px;">0</td> <td style="padding: 2px;">1</td> <td style="padding: 2px;">.</td> <td style="padding: 2px;">8</td> <td style="padding: 2px;">P</td> <td style="padding: 2px;">C</td> <td style="padding: 2px;">4</td> </tr> </table>	G	T	Y	X	V	0	1	.	8	P	C	4
G	T	Y	X	V	0	1	.	8	P	C	4			
Amount paid (U.S. Funds Only):		<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="padding: 2px;">\$ 26,741.00</td> </tr> </table>	\$ 26,741.00											
\$ 26,741.00														
Enter the check number, or the statement "WIRE" or "ACH":		<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="padding: 2px;">"WIRE"</td> </tr> </table>	"WIRE"											
"WIRE"														
Reduced Fee Section (40 CFR §1027.120)														
Reduced fee calculation (minimum initial payment \$750): Total number of vehicles/units covered: _____														
Aggregate retail sales price of the vehicles/units: \$ _____ x 1% = \$ _____														
Check box if an Independent Commercial Importer: <input type="checkbox"/> List the VIN of imported vehicles/engines below:														
Company Representative: <u>Kevin D. Webber</u> Signature: 														
Title: <u>General Mgr. - VRCE Dept.</u> Phone/Fax: <u>734/995-7132</u> / <u>734/995-9049</u> Date: <u>02/12/2015</u>														
E-mail Address: <u>certifications@tema.toyota.com</u>														
<b>Submission of payments and forms:</b>														
(1) Online: <b>Forms</b> may be found and submitted with or without <b>payments</b> online at <a href="http://www.Pay.gov">www.Pay.gov</a> .														
(2) By mail: For check payments only, send <b>checks</b> and this <b>form</b> to:														
Environmental Protection Agency Motor Vehicle and Engine Compliance Program P.O. Box 979032 St. Louis, MO 63197-9000														
(3) Transmit offline <b>Wire payments</b> to the <u>New York Federal Reserve Bank</u> . (See Instructions, p.2)														
(4) Transmit offline <b>ACH payments</b> to the <u>Federal Reserve Bank of Cleveland</u> . (Instructions, p.2)														
(5) <b>Forms</b> not submitted under (1) and (2) above can be sent as email attachments to <a href="mailto:Fees@epa.gov">Fees@epa.gov</a> .														
Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).														
The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.														
This form approved under OMB control number 2060-0545 until October 31, 2016. EPA Form 3520-29 (revised 10-2013).														



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

Please refer to the CBI common file.

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
- 17.8 Emission Control Information Labels
- 17.9 Service Information Availability
- 17.10 Identification of AB71-Qualified Vehicles (Mail-Out #MSO-2000-04)

Please refer to the FOI common file.

2016 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Test Group: GTYXV01.8PC4 Evap Fam: GTYXR0130J72  
 All Eng Codes in Eng Fam: CA \_\_\_ 49S \_\_\_ 50S x AB965 \_\_\_ , ORVR: YES x NO \_\_\_  
 Exh Std: CA LEVII: LEV \_\_\_ ULEV \_\_\_ SULEV \_\_\_ US EPA Interim Non-Tier2 \_\_\_  
 LEVIII: LEV160 \_\_\_ ULEV125 \_\_\_ ULEV70 \_\_\_ Tier2 x  
 ULEV50 \_\_\_ SULEV30 \_\_\_ SULEV20 \_\_\_ SULEV30 (AT PZEV) x  
 Evap Std: LEVII \_\_\_ LEVII Zero-Evap \_\_\_ LEVIII (Option 1) \_\_\_ LEVIII (Option 2) x  
 Veh Class(es): PC x LDT1 \_\_\_ LDT2 \_\_\_ MDV1 \_\_\_ MDV2 \_\_\_ MDV3 \_\_\_ MDV4 \_\_\_ MDV5 \_\_\_  
 Single Cert Std for Multi-Class Eng Fam: N/A (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 \_\_\_  
 Service Accum: Std AMA \_\_\_ Mod AMA \_\_\_ Mfr ADP x Other (specify) \_\_\_\_\_  
 NMOG Test Procedure: N/A \_\_\_ Std \_\_\_ Equiv x R/L Test Proc: SHED \_\_\_ Pt Source x  
 Engine Configuration: I-4 Displacement: 1.8 Liters 109.7 Cubic Inches  
 Valves per Cylinder: 4 Rated HP1: 96@5,200 RPM  
 Engine: Front x Mid \_\_\_ Rear \_\_\_ Drive: FWD x RWD \_\_\_ 4WD-FT \_\_\_ 4WD-PT \_\_\_  
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): SFI,EGR,EGRC,WR-HO2S,TWC(2),HO2S  
 (use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49S/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4, etc.)*1	ETW or Test Wt	DPA or RLHP
01	ZVW51L-AHXBBA	AV-3	3250	8.8
	ZVW51L-AHXGBA		3375	9.0/10.2
	ZVW51L-AHXHBA			10.2

Comment : Please refer to manufacturer’s HP list for correct dyno HP setting based on model and equipment.

Note \*1: The number after “-“ indicates the number of transmission mode.

VEHICLE MODELS:

PRIUS

ZVW51L-AHXGBA  
ZVW51L-AHXHBA

PRIUS Eco

ZVW51L-AHXBBA

**2016 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES**

Manufacturer: TOYOTA Exh Test Group: GTYXV01.8PC4 Evap Fam: GTYXR0130J72  
 All Eng Codes in Eng Fam: CA \_\_\_ 49S \_\_\_ 50S x AB965 \_\_\_ , ORVR: YES x NO \_\_\_  
 Exh Std: CA LEVII: LEV \_\_\_ ULEV \_\_\_ SULEV \_\_\_ US EPA Interim Non-Tier2 \_\_\_  
 LEVIII: LEV160 \_\_\_ ULEV125 \_\_\_ ULEV70 \_\_\_ Tier2 x  
 ULEV50 \_\_\_ SULEV30 \_\_\_ SULEV20 \_\_\_ SULEV30 (AT PZEV) x  
 Evap Std: LEVII \_\_\_ LEVII Zero-Evap \_\_\_ LEVIII (Option 1) \_\_\_ LEVIII (Option 2) x  
 Veh Class(es): PC x LDT1 \_\_\_ LDT2 \_\_\_ MDV1 \_\_\_ MDV2 \_\_\_ MDV3 \_\_\_ MDV4 \_\_\_ MDV5 \_\_\_  
 Single Cert Std for Multi-Class Eng Fam: N/A (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 \_\_\_  
 Service Accum: Std AMA \_\_\_ Mod AMA \_\_\_ Mfr ADP x Other (specify) \_\_\_\_\_  
 NMOG Test Procedure: N/A \_\_\_ Std \_\_\_ Equiv x R/L Test Proc: SHED \_\_\_ Pt Source x  
 Engine Configuration: I-4 Displacement: 1.8 Liters 109.7 Cubic Inches  
 Valves per Cylinder: 4 Rated HP1: 96@5,200 RPM  
 Engine: Front x Mid \_\_\_ Rear \_\_\_ Drive: FWD x RWD \_\_\_ 4WD-FT \_\_\_ 4WD-PT \_\_\_  
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): SF,EGR,EGRC,WR-HO2S,TWC(2),HO2S  
 (use abbreviations per SAE J1930 JUN93)

<u>Section #</u>		<u>Section #</u>	
1	Authorized Representative	FOI-1.2	
2	Fuel Specifications	-	22 Gen std, increase in Emiss, Safety, Meets all Reqm <u>FOI-8</u>
3	Test Equipment	-	23 Driveability Statement <u>FOI-17.1</u>
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 <u>FOI-17.3</u>
7	Maint: Cert/Req'd/Recm'd	-	27 High Altitude Compliance <u>FOI-17.2</u>
8	Emiss Label/Vac Hose Diag	-	28 OBD Sys incl Marked Revisions <u>CBI-9.1</u>
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 <u>CBI-17</u>
13	Exhaust Control System	FOI-5	33 NMOG+NOx Fleet Average Calculation <u>CBI-17.13</u>
14	Proj Sales(LDT/MDV Split)	CBI-17.1	34 AB965 Credits/Withdrawals -
15	Vehicle Description	12.1	35 EPA Certificate <u>to follow</u>
16	Evap Bench Test Procedure	-	36 Equiv NMOG Proc-ARB Approval <u>NMOG/NMHC=</u>
17	R/L Temp & Press Profiles	FOI-4.3	<u>FTP=1.10, SFTP&amp;HWY=1.03</u>
18	EDV Selection	-	
19	Prod Veh same as Test Veh	FOI-17.1	
20	Emission Label Durability	-	
21	Test Vehicle Information	Durability Emission Emission Emission	
	C/O or C/A MY ID	Data Vehicle Data Vehicle Data Vehicle Data Vehicle	
	Vehicle Log Page(s)	- 16B-ZV1H 6 16-ZV1H 6 16-ZV2H	
	Zero Mile Book Page(s)	- 7 7	
	Maint Logs & Engr Eval	- - -	

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**2016 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES**

Manufacturer: TOYOTA Exhaust Test Group: GTYXV01.8PC4 Evaporative Family: GTYXR0130J72

**PROJECTED EMISSIONS**

(grams/mile, except, grams/test for D+HS, and grams/gallon for ORVR) (1)

Emission Data Vehicle ID	E/G Code	Test Loc	Trans	ETW	MPG City/ Hwy	RLHP	Mile	NMOG +NOx	CO	PM	20°F CO	Hwy NMOG +NOx	City CO2	Hwy CO2	E V A P O R A T I V E				Canister Bleed <sup>4</sup>		
															Whole Vehicle 3-day D+HS*1	R/L	Whole Vehicle 2-day D+HS*1	ORVR			
16-ZV1H (00)*3	01	MFR	AV	3375	10.2	-	50k	N/A	N/A	N/A	1.05	N/A	-	-	N/A	N/A	N/A	N/A	N/A	N/A	
						-	120k	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	
							150k	0.0177	0.14	0.0004	N/A	0.0084			0.1316	0.000	0.1176	0.009	N/A		
(1) The EDV(s) above comply with standards of (@50k):								N/A	N/A	N/A	10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
								(@120k):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
								(@150k):	0.030	1.0	0.003	N/A	0.030	N/A	N/A	0.300	0.05	0.300	0.20	N/A	
Deterioration Factors(DFs) of (@50k):								N/A	N/A	N/A	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
								(@120k):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
								(@150k):	0.0053	0.07	0.0002	N/A	0.0053	N/A	N/A	N/A*2	N/A*2	N/A*2	N/A*2	N/A	
50°F emissions (w/o DFs):								-	-												
50°F standards:								0.060	1.0												

**SFTP Test results:**

Emission Data Vehicle ID	E/G Code	Test Loc	Trans	ETW	RLHP	Mile	US06 CO2	PM	SC03 CO2	NMOG +NOx-Comp	CO-Comp
16-ZV1H (00)*3	01	MFR	AV	3375	10.2	150k	-	0.0004	-	0.0147	0.14
16-ZV2H (04)*3	01	MFR	AV	3375	10.2	150k	-	-	-		
(1) The EDV(s) above comply with standards of (@150k):							N/A	0.010	N/A	0.030	4.2
Deterioration Factors(DFs) of (@150k):							N/A	0.0002	N/A	0.0053	0.07

Remarks \*1: 1st DBL is added key off monitor loss (0.0017gram).  
 \*2: DFs are not applicable because aged components were adopted to EDV.  
 \*3: Power shift pattern.  
 \*4: Vehicles with a non-integrated refueling canister-only system are exempt from the canister bleed emission standard.  
 According to CALIFORNIA EVAPORATIVE EMISSION STANDARDS AND TEST PROCEDURES FOR 2001 AND  
 SUBSEQUENT MODEL MOTOR VEHICLES PART I.E.1.(e)(i)(B)(4)

Application \_\_\_\_\_  
 Processed \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
 by Data Issued:

17.11.00

Test group : GTYXV01.8PC4

E.O.# \_\_\_\_\_  
Page \_\_\_\_\_

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 Compliance with fleet average FTP NMOG+NO<sub>x</sub> standard
- 17.14 Compliance with OBD-II Phase-in Requirements
- 17.15 Hybrid Electric Vehicle information (if applicable)

Please refer to the CBI common file.



**18. Information on Service of Process**

Please refer to Section 1 of the FOI common file.