

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), PRIUS Eco
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 : Kevin Webber 734-995-7132

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 cm³ (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

Manufacturer	Toyota Motor Corporation	Manufacturer Code	TYX
Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	10/25/2016 06:56:46 AM
Model Year	2016		

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72
Test Group Information				
CSI Type	Update for Correction		Running Change Reference Number	--
GHG Exempt Status	Not Exempt			
Drive Sources and Fuel(s)				
Drive Source #1:	Combustion Engine			
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	
	Gasoline	Multipoint/sequential fuel injection	No	
Drive Source #2:	Electric Motor			
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	
	Electricity	--	No	
Hybrid Indicator	Yes			
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--		Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No		EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No		Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No		California Partial Zero Emissions Vehicle Indicator	Yes
Durability Group Name	GTYXHHGNNF27		Durability Group Equivalency Factor	1.2
Reduced Fee Test Group	No		Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No			
Introduction into Commerce Date	11/30/2015		CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--		Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 2		SFTP Tier 2 Composite CO Option	Yes
SFTP LEV-III Composite Compliance Indicator	Yes			
OBD Compliance Type	CARB		OBD Demonstration Vehicle Test Group	GTYXV02.0KEA
Test Group OBD Compliance Level	Full - no deficiencies		Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--			
Mfr Test Group Comments	--			
Mfr Exhaust / Evap Standards Comments	--			

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72			
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New		Submission/Correction Date	09/24/2015 10:48:36 PM			
Integrated ORVR?	No		Fuel(s)	Electricity, Gasoline			
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?	Yes		Air Intake System Vapor Storage Device Description	Carbon filter in the air cleaner box			
Fuel System Vapor Storage Canister?	Yes		Other Vapor Storage	--			
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	130		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	61 - PRIUS Eco	Federal	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
Toyota Motor Corporation	1 - TOYOTA	61 - PRIUS Eco	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	No
Engine Description							
Hybrid Type	IC Engine/Electric Motor		Hybrid Description	--			
Engine Type	4-Stroke Spark Ignition		Mfr Engine Description	--			
Engine Block Arrangement	Inline		Mfr Engine Block Arrangement Description	--			
Camless Valvetrain Indicator	No		Oil Viscosity/Classification	0W-20			
Number of Cylinder/s/Rotors	4						

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Certification Summary Information Report

Test Group		GTYXV01.8PC4			Evaporative/Refueling Family		GTYXR0130J72				
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction							
1	Three-way catalyst	Paladium + Rhodium	Ceramic	Monolith							
2	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith							
Mfr After Treatment Device (ATD) Comments											
Direct Ozone Reduction (DOR) Device											
Mfr Emission Control Device Comments											
Engine Configuration Number 1											
Engine Displacement (liters)		1.8	Engine Rated Horsepower		96						
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						
Cylinder Deactivation		No									
Cylinder Deactivation Description		--									
Variable Valve Timing		Yes									
Variable Valve Timing System Description		Intake									
Variable Valve Lift?		No									
Variable Valve Lift System Description		--									
Number of Knock Sensors		1	Number of Air/Fuel Sensors		2						
Air/Fuel Sensor # 1 Type		Heated oxygen	Air/Fuel Sensor # 1 Description		--						
Air/Fuel Sensor # 2 Type		Heated air fuel	Air/Fuel Sensor # 2 Description		--						
Mfr Air/Fuel Sensor Comments		--									
Exhaust Gas Recirculation		Yes	Cooled Exhaust Gas Recirculation		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		--									
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		GTYX10037850	GTYX10037848	GTYX10038697	GTYX10038688	GTYX10037849	--	--	--	--	--
Gasoline		GTYX10037850	GTYX10037848	GTYX10038697	GTYX10038688	GTYX10037849	189.1	284.3	999.9	628.9	--

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72
SFTP LEV-III Official Test Numbers				
Test Group Fuel	FTP	US06	SC03	
Gasoline	GTYX10037850	GTYX10037848	GTYX10038697	
Electricity	GTYX10037850	GTYX10037848	GTYX10038697	
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	207	Battery Energy Capacity	3.6	
Battery Specific Energy	65.3	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	Front Wheels			
Mfr Regenerative Braking Description	--			
Drive Motor(s)/Generator(s)	1	Rated Motor/Generator Power	37	
Motor/Generator Type 1	AC Induction			
Mfr Fuel Cell Description	--	Usable H2 Fill Capacity (kg)	--	
Fuel Cell On-Board H2 Storage Capacity (kg)	--			
Mfr Hybrid Electric/ Electric Vehicle Comments	--			

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Certification Summary Information Report

Test Group	GTYXV01.8PC4			Evaporative/Refueling Family			GTYXR0130J72
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	24.153	0.33502	0.014096	10.116	0.1598	0.015033	10.2
US06	24.153	0.33502	0.014096	10.116	0.1598	0.015033	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	POWER SHIFT PATTERN						

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Certification Summary Information Report

Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10037850	Test Procedure	35 - California fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/04/2015	Fuel	Gasoline
Fuel Batch ID	WC5B05	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Higashifuji Technical Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4487	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)
	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
	CO2 BAG 4 (Bag 4 Carbon Dioxide)	0	--
	FE BAG 4 (Bag 4 Fuel Economy)	999	999
	METHANE (CH4 - Methane)	0.002146	--
	CO (Carbon Monoxide)	0.0745335	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.59	--
	DT-EER (Drive Trace Energy Economy Rating)	-0.05	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.83	--
	MFR FE (Manufacturer Fuel Economy)	999	999
	NOX (Nitrogen Oxide)	0.0011416	--
	N2O (Nitrous Oxide)	0.000327	--
	HC-NM (Non-methane Hydrocarbon)	0.0102723	--
	NMOG (Non-methane organic gas (California))	0.0112996	--
	PM (Particulate Matter)	0.0002468	--
	HC-TOTAL (Total Hydrocarbon)	0.0123289	--

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

Test Group		GTYXV01.8PC4		Evaporative/Refueling Family				GTYXR0130J72				
		Test Result Name		Unrounded Test Result				Verify Calculated CREE/OPT-CREE				
		Carbon-Related Exhaust Emissions		0				999				
		Test Result Name		Unrounded Test Result				Verify Calculated CO2				
		Carbon dioxide		0				--				
Manufacturer Test Comments		NMOG = HC-NM x 1.10										
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

Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10037849	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/04/2015	Fuel	Gasoline
Fuel Batch ID	WC5B05	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Higashifuji Technical Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4502	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)	0.001399	--	
CO (Carbon Monoxide)	0.0314332	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.45	--	
DT-EER (Drive Trace Energy Economy Rating)	0.05	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.76	--	
MFR FE (Manufacturer Fuel Economy)	999	999	
NOX (Nitrogen Oxide)	0.0000692	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0.0029513	--	
NMOG (Non-methane organic gas (California))	0.0030398	--	
HC-TOTAL (Total Hydrocarbon)	0.004292	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	0	999	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	0	--	
Manufacturer Test Comments	NMOG = HC-NM x 1.03		

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	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.

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72				
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				
Fuel Batch ID	WCSB05		Fuel Calibration Number	1				
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 Start Odometer Reading	4034		Odometer Units	M				
4WD Test Dyno	No		Diesel Adjustment Factor Usage	--				
State of Charge Delta	--							
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		Road Speed Fan Usage	No				
Test Results								
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)					
	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.117004	--					
Manufacturer Test Comments								
HSL=0.0088, 1ST DBL=0.1083, 2ND DBL=0.0953, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0018GRAM)								
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	0.117	0.000	0.12	0.65	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1170	0.000	0.117	0.300	Pass

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72				
Test #	GTYX10037861		Test Procedure	38 - CA fuel 3-day evap.				
Exhaust Test # for this Evap Test	GTYX10037852		Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline				
Test Date	09/15/2015		Fuel	Gasoline				
Fuel Batch ID	WC5B04		Fuel Calibration Number	1				
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 Start Odometer Reading	3979		Odometer Units	M				
4WD Test Dyno	No		Diesel Adjustment Factor Usage	--				
State of Charge Delta	--							
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		Road Speed Fan Usage	No				
Test Results								
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)					
	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1308488	--					
Manufacturer Test Comments								
HSL=0.0223, 1ST DBL=0.1085, 2ND DBL=0.0875, 3RD DBL=0.0844, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0018GRAM)								
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	0.131	0.000	0.13	0.50	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1308	0.000	0.131	0.300	Pass

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72				
Test #	GTYX10037863		Test Procedure	24 - Federal fuel refueling test (ORVR)				
Exhaust Test # for this Evap Test	GTYX10037853		Test Fuel Type	61 - Tier 2 Cert Gasoline				
Test Date	06/09/2015		Fuel	Gasoline				
Fuel Batch ID	WE5B02		Fuel Calibration Number	1				
Vehicle Class	N/A		DF Type	Mfr. Determined				
Verify Test Lab ID	Higashifuji Technical Center							
E10 Evaporative Test Measurement Method	--							
Test Start Odometer Reading	4045		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 (Hydrocarbon for Running Loss and ORVR)	0.0085961	--					
Manufacturer Test Comments WITH 1200BV BENCH PURGE								
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	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

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72				
Test #	GTYX10037899		Test Procedure	37 - California Fuel Running Loss				
Exhaust Test # for this Evap Test	GTYX10037852		Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline				
Test Date	09/15/2015		Fuel	Gasoline				
Fuel Batch ID	WC5B05		Fuel Calibration Number	1				
Vehicle Class	N/A		DF Type	Mfr. Determined				
Verify Test Lab ID	Higashifuji Technical Center							
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)							
Test Start Odometer Reading	4657		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)					
	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--					
Manufacturer Test Comments --								
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

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Certification Summary Information Report

Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10037848	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/11/2015	Fuel	Gasoline
Fuel Batch ID	WC5B05	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Higashifuji Technical Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4634	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)
	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
	CO (Carbon Monoxide)	0.1069287	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.91	--
	DT-EER (Drive Trace Energy Economy Rating)	0.23	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.57	--
	MFR FE (Manufacturer Fuel Economy)	999	999
	NOX (Nitrogen Oxide)	0.0012565	--
	HC-NM (Non-methane Hydrocarbon)	0.009338	--
	NMOG (Non-methane organic gas (California))	0.0096181	--
	PM (Particulate Matter)	0.0001976	--
	HC-TOTAL (Total Hydrocarbon)	0.0109699	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	0	--
Manufacturer Test Comments	NMOG = HC-NM x 1.03		

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	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

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72
Emission Data Vehicle Information				
Vehicle ID / Configuration	16-ZV2H / 4		Manufacturer Vehicle Configuration Number	4
Original Test Group Name	GTYXV01.8PC4		Original Evaporative/Refueling Family	GTYXR0130J72
Original Test Vehicle Model Year	2016			
Vehicle Model				
Represented Test Vehicle Make	TOYOTA		Represented Test Vehicle Model	PRIUS
Leak Family Details				
Leak Family Identifier	--		Leak Family Name	--
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	No			
Odometer Correction -- Initial	12		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	96
Displacement (liters)	1.798			
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)	3080		Equivalent Test Weight (pounds)	3375
GVWR (lbs)	--		N/V Ratio	20.1
Axle Ratio	2.83			
Transmission Type	Continuously Variable		# of Transmission Gears	1
Transmission Lockup	No		Creeper Gear	No

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Certification Summary Information Report

Test Group	GTYXV01.8PC4			Evaporative/Refueling Family			GTYXR0130J72
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	24.153	0.33502	0.014096	10.116	0.1598	0.015033	10.2
Cold CO	26.837	0.37224	0.015662	8.14	-0.00597	0.018305	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	POWER SHIFT PATTERN						

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Certification Summary Information Report

Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10038688	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)
Test Date	09/04/2015	Fuel	Gasoline
Fuel Batch ID	WL4C03	Fuel Calibration Number	6
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Higashifuji Technical Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4969	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	No
Test Results			
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	266.7326	--
	FE BAG 1 (Bag 1 Fuel Economy)	31.895716	31.895716
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	146.1909	--
	FE BAG 2 (Bag 2 Fuel Economy)	60.1230587	60.1230587
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	179.4995	--
	FE BAG 3 (Bag 3 Fuel Economy)	49.0213796	49.0213796
	CO2 BAG 4 (Bag 4 Carbon Dioxide)	112.4669	--
	FE BAG 4 (Bag 4 Fuel Economy)	77.9832074	77.9832074
	CO (Carbon Monoxide)	1.0251984	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.48	--
	DT-EER (Drive Trace Energy Economy Rating)	0.57	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.1	--
	MFR FE (Manufacturer Fuel Economy)	51.0675206	51.0675206
	NOX (Nitrogen Oxide)	0.0173319	--
	HC-NM (Non-methane Hydrocarbon)	0.1675061	--
	HC-TOTAL (Total Hydrocarbon)	0.1772504	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	170.3613598	--
Manufacturer Test Comments	--		

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	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

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72								
Test #	GTYX10038697		Test Procedure	95 - SC03								
Exhaust Test # for this Evap Test	--		Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline								
Test Date	09/02/2015		Fuel	Gasoline								
Fuel Batch ID	WC5B05		Fuel Calibration Number	1								
Vehicle Class	LDV/Passenger Car		DF Type	Mfr. Determined								
Verify Test Lab ID	Higashifuji Technical Center											
E10 Evaporative Test Measurement Method	--											
Test Start Odometer Reading	4922		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 (Carbon Monoxide)	0.041801	--									
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.88	--									
	DT-EER (Drive Trace Energy Economy Rating)	0.12	--									
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.27	--									
	MFR FE (Manufacturer Fuel Economy)	51.0498305	51.0498305									
	NOX (Nitrogen Oxide)	0.001992	--									
	HC-NM (Non-methane Hydrocarbon)	0.00319	--									
	HC-TOTAL (Total Hydrocarbon)	0.005169	--									
	Test Result Name	Unrounded Test Result	Verify Calculated CO2									
	Carbon dioxide	169.405675	--									
Manufacturer Test Comments --												
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	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

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Certification Summary Information Report

Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
Fuel Properties			
Fuel Batch ID	WC5B05	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	03/29/2015
Fuel Batch Calibration Effective Date	06/01/2015	Fuel Batch Calibration Ineffective Date	06/30/2015
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.86	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	17867
Fuel Blend Carbon Weight Fraction	0.825	Weight Fraction CO2	--
Fuel Batch ID	WE5B02	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	05/11/2015
Fuel Batch Calibration Effective Date	06/05/2015	Fuel Batch Calibration Ineffective Date	06/30/2015
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.738
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	18496
Fuel Blend Carbon Weight Fraction	0.864	Weight Fraction CO2	--
Fuel Batch ID	WL4C03	Fuel Calibration Number	6
Test Fuel Type	26 - Cold CO Regular (Tier 2)	Fuel Batch Calibration Date	11/17/2014
Fuel Batch Calibration Effective Date	09/01/2015	Fuel Batch Calibration Ineffective Date	09/30/2015
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.731
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	18529
Fuel Blend Carbon Weight Fraction	0.863	Weight Fraction CO2	--
Fuel Batch ID	WC5B04	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	03/15/2015
Fuel Batch Calibration Effective Date	05/11/2015	Fuel Batch Calibration Ineffective Date	05/31/2015
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.861	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	17861
Fuel Blend Carbon Weight Fraction	0.825	Weight Fraction CO2	--

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

Test Group		GTYXV01.8PC4			Evaporative/Refueling Family			GTYXR0130J72		
Consolidated List of Standards										
Exhaust Standards										
Cert Region	California + CAA Section 177 states			Cert/In-Use Code	Both					
Vehicle Class	LDV/Passenger Car			Standard Level	California LEV-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	Federal			Cert/In-Use Code	Both					
Vehicle Class	LDV/Passenger Car			Standard Level	Federal Tier 2 Bin 3					
Fuel	Gasoline			Test Procedure	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	
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	

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

Test Group		GTYXV01.8PC4			Evaporative/Refueling Family			GTYXR0130J72		
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	
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			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	--	--	--	0.0047	999.999	
150,000 miles	NMOG+NOX	--	1	1.03	--	--	--	0.0053	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0006	999.999	
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			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	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

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Certification Summary Information Report

Test Group		GTYXV01.8PC4			Evaporative/Refueling Family			GTYXR0130J72		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 3		
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	
150,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.3	
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 3		
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	
4,000 miles	CO	--	--	--	--	--	--	--	2.7	
4,000 miles	HC-NM+NOX	--	--	--	--	--	--	--	0.20	
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	

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

Test Group		GTYXV01.8PC4			Evaporative/Refueling Family		GTYXR0130J72		
Cert Region		Federal			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 2 Bin 3		
Fuel		Gasoline			Test Procedure		CST two speed idle test		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CO	--	--	--	--	--	--	--	0.5
120,000 miles	HC-TOTAL	--	--	--	--	--	--	--	100
Cert Region		Federal			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 2 Bin 3		
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	--	--	--	--	--	--	0.075	999.9999
150,000 miles	NOX	--	--	--	--	--	--	0.0006	0.04
Evaporative/Refueling Standards									
Evaporative/Refueling Family		GTYXR0130J72			Cert Region		Federal		
Cert/In-Use Code		Both			Standard Level		Federal LEV-II Evap		
Test Procedure		CA fuel 3-day evap.							
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF				
Gasoline	120,000 miles	HC-TOTAL-EQUIV	--	0.50	0.000				
Evaporative/Refueling Family		GTYXR0130J72			Cert Region		California + CAA Section 177 states		
Cert/In-Use Code		Both			Standard Level		California LEV-III Zero Evap (Option 2)		
Test Procedure		California Fuel Running Loss							
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF				
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000				
Evaporative/Refueling Family		GTYXR0130J72			Cert Region		Federal		
Cert/In-Use Code		Both			Standard Level		Federal LEV-II Evap		
Test Procedure		California Fuel Running Loss							
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF				
Gasoline	120,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000				

7. Test Results

Test group: GTYXV01.8PC4

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72		
Evaporative/Refueling Family	GTYXR0130J72		Cert Region	Federal		
Cert/In-Use Code	Both		Standard Level	Federal LEV-II Evap		
Test Procedure	California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF	
Gasoline	120,000 miles	HC-TOTAL-EQUIV	--	0.65	0.000	
Evaporative/Refueling Family	GTYXR0130J72		Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both		Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.000	
Evaporative/Refueling Family	GTYXR0130J72		Cert Region	Federal		
Cert/In-Use Code	Both		Standard Level	Federal LEV-II Evap		
Test Procedure	Spitback					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF	
Gasoline	120,000 miles	SPITBACK	--	1.0	0.000	
Evaporative/Refueling Family	GTYXR0130J72		Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both		Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF	
Gasoline	150,000 miles	HC	--	0.20	0.000	
Evaporative/Refueling Family	GTYXR0130J72		Cert Region	Federal		
Cert/In-Use Code	Both		Standard Level	Federal LEV-II Evap		
Test Procedure	Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF	
Gasoline	120,000 miles	HC	--	0.20	0.000	

7. Test Results

Test group: GTYXV01.8PC4

Date: 10/25/2016 06:57:28 AM

Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72	
Evaporative/Refueling Family	GTYXR0130J72		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		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	0.000

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Certification Summary Information Report

Test Group	GTYXV01.8PC4		Evaporative/Refueling Family	GTYXR0130J72
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	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	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
Certification Region				
CA	California + CAA Section 177 states	FA	Federal	
Exhaust Emission Standard Level				
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: 10/25/2016 06:57:28 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
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		

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Certification Summary Information Report

Test Group	GTYXV01.8PC4	Evaporative/Refueling Family	GTYXR0130J72
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

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 (N₂O)
- 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 and Test Parameters

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	Trans-mission*2/ Overdrive	SIL	Tire*1	N/V	ETW (lb.)	Fuel tank vol. (L)	Rated HP
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	96@5200
			01	4	1.798	50	P610 (AV-3) / N/A	N/A	P215/45R17 AS	20.1	3375	43	96@5200
	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	96@5200
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	96@5200

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.



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 On-Highway Fee Filing Form For Certification Applications Received In Calendar Year 2015													
Manufacturer Name <u>Toyota Motor Engineering & 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: 150px;"> <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: 150px;"> <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>														
Submission of payments and forms:														
(1) Online: Forms may be found and submitted with or without payments online at www.Pay.gov .														
(2) By mail: For check payments only, send checks and this form to:														
Environmental Protection Agency Motor Vehicle and Engine Compliance Program P.O. Box 979032 St. Louis, MO 63197-9000														
(3) Transmit offline Wire payments to the New York Federal Reserve Bank. (See Instructions, p.2)														
(4) Transmit offline ACH payments to the Federal Reserve Bank of Cleveland. (Instructions, p.2)														
(5) Forms not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov.														
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
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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 ⁴		
															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			0.1308	0.000	0.1170	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	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 (0.0018gram).
 *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_x 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.