

TOYOTA

Application For Certification - Part 1 2016 Model Year

Durability Group : GTYXHHGNNB26
Evap/refueling Families : GTYXR0130J72
Test Group : GTYXV01.8PC3
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 (NiMH)
Vehicles Tested :

Vehicle I.D.	Config.	Test	Test Number
16-ZV3H	00	FTP	GTYX10038745
16-ZV3H	00	HWY	GTYX10038747
16-ZV3H	00	SFTP	GTYX10038746, GTYX10038740
16-ZV1H	00	EVAP	GTYX10037860, GTYX10037861
16-ZV1H	00	Running Loss	GTYX10037899
16-ZV1H	00	Refueling	GTYX10037863
16-ZV3H	00	C.CO, C.HC	GTYX10038684

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 : GTYXHHGNNB26

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 : GTYXV01.8PC3
- 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	2-Day Evap., 3-Day Evap, Refueling
16-ZV3H	00	Cert. Emission	FTP, HwFET, SFTP, Cold CO, Cold HC

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Certification Summary Information Report

Manufacturer	Toyota Motor Corporation	Manufacturer Code	TYX
Test Group	GTYXV01.8PC3	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 06:36:54 AM
Model Year	2016		

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Certification Summary Information Report

Test Group	GTYXV01.8PC3		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	GTYXHHGNNB26		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	GTYXV01.8PC3		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)	Gasoline, Electricity			
Multiple Fuel Storage	Fuels Stored Together						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic		Fuel Tank Material Description	EVOH			
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	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	60 - PRIUS	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
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 Cylinders/Rotors	4						

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Certification Summary Information Report

Test Group		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											
Not Equipped											
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
Gasoline		GTYX10038745	GTYX10038746	GTYX10038740	GTYX10038684	GTYX10038747	187.9	284.3	999.9	628.9	--
Electricity		GTYX10038745	GTYX10038746	GTYX10038740	GTYX10038684	GTYX10038747	--	--	--	--	--

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Certification Summary Information Report

Test Group		GTYXV01.8PC3		Evaporative/Refueling Family		GTYXR0130J72	
SFTP LEV-III Official Test Numbers							
Test Group Fuel		FTP		US06		SC03	
Electricity		GTYX10038745		GTYX10038746		GTYX10038740	
Gasoline		GTYX10038745		GTYX10038746		GTYX10038740	
Hybrid Electric Vehicle And Fuel Cell Information							
Rechargeable Energy Storage System	Battery(s)			Rechargeable Energy Storage System, if Other	--		
Battery Type	NiMH			Number of Battery Packs	1		
Total Voltage of Battery Packs	202			Battery Energy Capacity	6.5		
Battery Specific Energy	46.4			Battery Charger Type	On-Board		
Number of Capacitors	--			Capacitor Rating (In Farads)	--		
Mfr Capacitor Comments	--						
Hydraulic System Description	--						
Regenerative Braking Type	Electrical Regen Brake						
Regenerative Braking Source	Front Wheels			Driver Controlled Regenerative Braking	No		
Mfr Regenerative Braking Description	--						
Drive Motor(s)/Generator(s)	1						
Motor/Generator Type 1	AC Induction			Rated Motor/Generator Power	37		
Mfr Fuel Cell Description	--						
Fuel Cell On-Board H2 Storage Capacity (kg)	--			Usable H2 Fill Capacity (kg)	--		
Mfr Hybrid Electric/ Electric Vehicle Comments	--						

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling Family	GTYXR0130J72									
Emission Data Vehicle Information												
Vehicle ID / Configuration	16-ZV1H / 0	Manufacturer Vehicle Configuration Number	0									
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												
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	43	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	Creep Gear	No									

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Certification Summary Information Report

Test Group	GTYXV01.8PC3			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							
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	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	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

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Certification Summary Information Report

Test Group	GTYXV01.8PC3		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

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group	GTYXV01.8PC3		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	GTYXV01.8PC3		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	GTYXV01.8PC3	Evaporative/Refueling Family	GTYXR0130J72								
Emission Data Vehicle Information											
Vehicle ID / Configuration	16-ZV3H / 0	Manufacturer Vehicle Configuration Number	0								
Original Test Group Name	GTYXV01.8PC3	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											
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel									
1	Electric Motor	Electricity									
2	Combustion Engine	Gasoline									
Hybrid Indicator	Yes										
Multiple Fuel Storage	--	Multiple Fuel Combustion	--								
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes								
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--								
Off-board charge Capable Indicator	No										
Odometer Correction -- Initial	11	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)	3075	Equivalent Test Weight (pounds)	3375								
GVWR (lbs)	--	N/V Ratio	20								
Axle Ratio	2.83										
Transmission Type	Continuously Variable	# of Transmission Gears	1								
Transmission Lockup	No	Creep Gear	No								

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Certification Summary Information Report

Test Group	GTYXV01.8PC3			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	31.145	0.35285	0.013956	18.843	0.17373	0.015138	11.2
Cold CO	34.605	0.39206	0.015507	16.019	0.08909	0.018067	N/A
US06	31.145	0.35285	0.013956	18.843	0.17373	0.015138	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	POWER SHIFT PATTERN						

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10038684	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)
Test Date	09/08/2015	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	4844	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)	262.7096	--
	FE BAG 1 (Bag 1 Fuel Economy)	32.283648	32.283648
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	148.1485	--
	FE BAG 2 (Bag 2 Fuel Economy)	59.2792461	59.2792461
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	194.7439	--
	FE BAG 3 (Bag 3 Fuel Economy)	44.9979276	44.9979276
	CO2 BAG 4 (Bag 4 Carbon Dioxide)	115.8064	--
	FE BAG 4 (Bag 4 Fuel Economy)	75.421059	75.421059
	CO (Carbon Monoxide)	1.1222072	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.98	--
	DT-EER (Drive Trace Energy Economy Rating)	0.73	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.25	--
	MFR FE (Manufacturer Fuel Economy)	49.5938769	49.5938769
	NOX (Nitrogen Oxide)	0.018425	--
	HC-NM (Non-methane Hydrocarbon)	0.1575709	--
	HC-TOTAL (Total Hydrocarbon)	0.1685887	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	175.1363102	--
Manufacturer Test Comments	--		

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group		GTYXV01.8PC3				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	1.12	--	--	--	0.02	--	1.1	10.0	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	HC-NM	0.16	--	--	--	0.00	--	0.2	0.3	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	1.12	--	--	--	0.02	--	1.1	10.0	Pass

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10038745	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	09/03/2015	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	4677	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)	0.0020532	--
CO (Carbon Monoxide)	0.0840111	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.18	--
DT-EER (Drive Trace Energy Economy Rating)	-0.23	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.25	--
MFR FE (Manufacturer Fuel Economy)	999	999
NOX (Nitrogen Oxide)	0.0033324	--
N2O (Nitrous Oxide)	0.0003784	--
HC-NM (Non-methane Hydrocarbon)	0.010122	--
NMOG (Non-methane organic gas (California))	0.0111342	--
PM (Particulate Matter)	0.0002801	--
HC-TOTAL (Total Hydrocarbon)	0.0120896	--

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group		GTYXV01.8PC3				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	0.08	--	--	--	0.07	--	0.2	2.1	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	CO-COMP	0.22	--	--	--	--	--	0.2	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	0.019	--	--	--	--	--	0.02	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	0.0111	1	1.04	--	0.0047	--	0.016	0.055	Pass
Fed	150,000 miles	Federal Tier 2 Bin 3	NOX	0.003	--	--	--	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	0.08	--	--	--	0.07	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.22	--	--	--	0.07	--	0.2	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0111	1	1.10	--	0.0047	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0144	1	1.10	--	--	--	0.020	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0200	1	1.03	--	0.0053	--	0.020	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0033	--	--	--	0.0006	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	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.												

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10038747	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/03/2015	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	4720	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)	0.000844	--	
CO (Carbon Monoxide)	0.0201125	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.91	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.04	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.89	--	
MFR FE (Manufacturer Fuel Economy)	999	999	
NOX (Nitrogen Oxide)	0	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0.0005294	--	
NMOG (Non-methane organic gas (California))	0.0005453	--	
HC-TOTAL (Total Hydrocarbon)	0.0013382	--	
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: GTYXV01.8PC3

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Certification Summary Information Report

Test Group		GTYXV01.8PC3			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	0.0005	1	1.03	--	0.0047	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0005	1	1.03	--	--	--	0.006	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0000	--	--	--	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	GTYXV01.8PC3	Evaporative/Refueling Family	GTYXR0130J72
Test #	GTYX10038746	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/03/2015	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	4740	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)	0.2289439	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.84	--
	DT-EER (Drive Trace Energy Economy Rating)	-0.41	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.16	--
	MFR FE (Manufacturer Fuel Economy)	999	999
	NOX (Nitrogen Oxide)	0.0019095	--
	HC-NM (Non-methane Hydrocarbon)	0.0151911	--
	NMOG (Non-methane organic gas (California))	0.0156468	--
	PM (Particulate Matter)	0.001295	--
	HC-TOTAL (Total Hydrocarbon)	0.0171269	--
	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: GTYXV01.8PC3

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Certification Summary Information Report

Test Group		GTYXV01.8PC3				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	0.23	--	--	--	--	--	0.2	8.0	Pass
Fed	4,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX	0.017	--	--	--	--	--	0.02	0.14	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0013	--	--	--	0.0002	--	0.002	0.010	Pass

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group	GTYXV01.8PC3		Evaporative/Refueling Family	GTYXR0130J72								
Test #	GTYX10038740		Test Procedure	95 - SC03								
Exhaust Test # for this Evap Test	--		Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline								
Test Date	09/14/2015		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	4979		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)		0.147765	--									
DT-ASCR (Drive Trace Absolute Speed Change Rating)		0.5	--									
DT-EER (Drive Trace Energy Economy Rating)		0.06	--									
DT-IWRR (Drive Trace Inertia Work Ratio Rating)		0.95	--									
MFR FE (Manufacturer Fuel Economy)		46.838829	46.838829									
NOX (Nitrogen Oxide)		0.000518	--									
HC-NM (Non-methane Hydrocarbon)		0.011199	--									
HC-TOTAL (Total Hydrocarbon)		0.014	--									
Test Result Name		Unrounded Test Result	Verify Calculated CO2									
Carbon dioxide		0	--									
Manufacturer Test Comments												
--												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	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	0.15	--	--	--	--	--	0.2	2.7	Pass
Fed	4,000 miles	Federal Tier 2 Bin 3	HC-NM+NOX	0.012	--	--	--	--	--	0.01	0.20	Pass

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	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	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	--
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	--

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Certification Summary Information Report

Test Group		GTYXV01.8PC3		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		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
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

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group		GTYXV01.8PC3			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			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		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		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	

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group		GTYXV01.8PC3			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			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			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		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		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	

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Certification Summary Information Report

Test Group		GTYXV01.8PC3			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		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		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
Evaporative/Refueling Standards									
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		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				
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				

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group		GTYXV01.8PC3		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		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		California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code		Both		Standard Level			
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 Federal LEV-II Evap	
Cert/In-Use Code		Both		Standard Level			
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		
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		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 Federal LEV-II Evap	
Cert/In-Use Code		Both		Standard Level			
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: GTYXV01.8PC3

Date: 10/25/2016 06:37:33 AM

Certification Summary Information Report

Test Group	GTYXV01.8PC3		Evaporative/Refueling Family	GTYXR0130J72	
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	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

7. Test Results

Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	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

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	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	GTYXV01.8PC3	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 : GTYXHHGNNB26
 Test Group : GTYXV01.8PC3
 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)	Rated HP
PRIUS	TOYOTA PRIUS TWO	ZVW50L-AHXEBA	01	4	1.798	50	P610 (AV-3) / N/A	N/A	195/65R15 SM#2	20.0	3375	43	96@5200
			01	4	1.798	50	P610 (AV-3) / N/A	N/A	P195/65R15 AS	20.0	3375	43	96@5200

Note*1: AS : All-season tire
 SM/SM#2 : Summer-tire

*2: The number after “-“ indicates the number of transmission mode.

12.2 Test Parameters

Please refer to the FOI common file.

13. **Projected Sales and Compliance Plans**

Please refer to the CBI common file.

14. Request for Certificate

Test group : GTYXV01.8PC3
 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 _____	


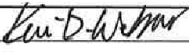
This combination meet all applicable regulations contained within 40 CFR Part 85, 86, and 600, the application is current as of this date.



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 <u>Calendar Year 2015</u>	3												
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;">3</td> </tr> </table>	G	T	Y	X	V	0	1	.	8	P	C	3
G	T	Y	X	V	0	1	.	8	P	C	3			
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>														
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 <u>New York Federal Reserve Bank</u> . (See Instructions, p.2) (4) Transmit offline ACH payments to the <u>Federal Reserve Bank of Cleveland</u> . (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: GTYXV01.8PC3 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 __ Equip 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	ZVW50L-AHXEBA	AV-3	3375	9.0/11.2

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
ZVW50L-AHXEBA

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

Manufacturer: TOYOTA Exh Test Group: GTYXV01.8PC3 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 ___ Equip 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)

<u>Section #</u>		<u>Section #</u>	
1	Authorized Representative	<u>FOI-1.2</u>	22 Gen std, increase in Emiss,
2	Fuel Specifications	-	Safety, Meets all Reqm
3	Test Equipment	-	FOI-8
4	Test Procedure	-	23 Driveability Statement
5	Mileage Accumulation Route	<u>CBI-4</u>	FOI-17.1
6	Emission Warranty Statement	<u>Part2 FOI-6.00.01</u>	24 Adjustable Parameters
7	Maint: Cert/Req'd/Recm'd	-	-
8	Emiss Label/Vac Hose Diag	-	25 Tamper Resistance Method(s)
9	Evap Control System	<u>FOI-3</u>	-
10	Engine Parameters	<u>5</u>	26 Fill Pipe Specifications
11	Fuel System	-	FOI-17.3
12	Ignition System	-	27 High Altitude Compliance
13	Exhaust Control System	<u>FOI-5</u>	FOI-17.2
14	Proj Sales(LDT/MDV Split)	<u>CBI-17.1</u>	28 OBD Sys incl Marked Revisions
15	Vehicle Description	<u>12.1</u>	CBI-9.1
16	Evap Bench Test Procedure	-	29 I & M Test Procedure & Data
17	R/L Temp & Press Profiles	<u>FOI-4.3</u>	-
18	EDV Selection	-	30 50 Degree F Compliance
19	Prod Veh same as Test Veh	<u>FOI-17.1</u>	-
20	Emission Label Durability	-	31 Manufacturer's RAF
			32 Phase-In Plans
			CBI-17
			33 NMOG+NOx Fleet Average
			Calculation
			CBI-17.13
			34 AB965 Credits/Withdrawals
			-
			35 EPA Certificate
			to follow
			36 Equip NMOG Proc-ARB Approval
			NMOG/NMHC=
			FTP=1.10, SFTP&HWY=1.03
21	Test Vehicle Information	Durability	Emission
	C/O or C/A MY ID	Data Vehicle	Data Vehicle
	Vehicle Log Page(s)	C/A <u>16B-ZV1H</u>	<u>16-ZV1H</u>
	Zero Mile Book Page(s)	-	<u>6</u>
	Maint Logs & Engr Eval	-	<u>6</u>
		-	<u>7</u>
		-	-

Continued on next page

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

Manufacturer: TOYOTA

Exhaust Test Group: GTYXV01.8PC3

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	RLHP	MPG City/ Hwy	Mile	NMOG					EVAPORATIVE						
								+NOx	CO	PM	20°F CO	Hwy +NOx	City CO2	Hwy CO2	Whole Vehicle 3-day D+HS*1	R/L	Whole Vehicle 2-day D+HS*1	ORVR	Canister Bleed*4
16-ZV3H (00)*3	01	MFR	AV	3375	11.2	-/ -	50k 120k 150k	N/A N/A 0.0198	N/A N/A 0.15	N/A N/A 0.0005	1.14 N/A 0.0058	- N/A -	- N/A -	N/A N/A -	N/A N/A -	N/A N/A -	N/A N/A -	N/A N/A -	N/A N/A -
16-ZV1H (00)*3	01	MFR	AV	3375	10.2	-/ -	50k 120k 150k	N/A N/A -	N/A N/A -	N/A N/A -	- N/A -	N/A N/A -	- N/A -	N/A N/A 0.1308	N/A N/A 0.000	N/A N/A 0.1170	N/A N/A 0.009	N/A N/A -	N/A 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 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 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 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 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*N2 N/A*N2 N/A*N2 N/A*N2 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-ZV3H (00)*3	01	MFR	AV	3375	11.2	150k	-	0.0015	-	0.0200	0.22
(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 : GTYXV01.8PC3

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.