ΤΟΥΟΤΑ

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 : Andrea Frederick

734-995-2586

Note :

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1. <u>Correspondence and Communications</u>

Please refer to the FOI common file.

2. <u>Durability Group Description</u>

Durability Group Name : GTYXHHGNNB26

Please refer to the common file for details.

3. <u>Evaporative/Refueling Family Description</u>

Evaporative/Refueling Family Name : GTYXR0130J72

Please refer to the FOI common file for details.

4. <u>Durability Procedure Description</u>

- 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. <u>Test Group Description</u>

5.1	Test group name	:	GTYXV01.8PC3
5.2	Engine displacements covered	:	1,798 cm ³ (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. <u>Test Vehicle Description</u>

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

7. Test Results

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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	N/A	CARB Executive Order #	N/A
Certificate Issue Date	N/A	Certificate Revision Date	N/A
Certificate Effective Date	N/A	Conditional Certificate	
CSI Revision #	N/A	CSI Submission/Revision Date	09/30/2015
Model Year	2016		
Fest Group Information			
СЅІ Туре	Update for Correction	Running Change Reference Number	N/A
GHG Exempt Status	Not Exempt		
Drive Sources and Fuel(s)			
Drive Source #1:	Combustion Engine		
Fu	ıel	Basic Fuel Metering System Lean Burn St	rategy Indicator
Gase	oline	Multipoint/sequential fuel injection	N
Drive Source #2:	Electric Motor		
Fu	ıel	Basic Fuel Metering System Lean Burn St	rategy Indicator
Elect	ricity		N
brid Indicator	Yes		
Iultiple Fuel Storage		Rechargeable Energy Storage System Indicator	Yes
ultiple Fuel Combustion		Off-board Charge Capable Indicator	No
runple ruer Combustion		on bourd charge capable maleator	
•		· ·	LDV
'uel Cell Indicator	 No No	EPA Vehicle Class Federal Clean Fuel Vehicle Standard	LDV
'uel Cell Indicator 'ederal Clean Fuel Vehicle	No No	EPA Vehicle Class Federal Clean Fuel Vehicle Standard	
ederal Clean Fuel Vehicle ederal Clean Fuel Vehicle ederal Clean Fuel Vehicle ILEV	No No No	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica	 tor Yes
'uel Cell Indicator 'ederal Clean Fuel Vehicle 'ederal Clean Fuel Vehicle ILEV 'urability Group Name	No No GTYXHHGNNB26	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor	 tor Yes 1.2
uel Cell Indicator ederal Clean Fuel Vehicle ederal Clean Fuel Vehicle ILEV urability Group Name educed Fee Test Group	No No GTYXHHGNNB26 No	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica	 tor Yes
uel Cell Indicator ederal Clean Fuel Vehicle ederal Clean Fuel Vehicle ILEV purability Group Name educed Fee Test Group complies with HD GHG 2b/3 regulations?	No No GTYXHHGNNB26	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s)	 Yes 1.2 FA, CA
uel Cell Indicator ederal Clean Fuel Vehicle ederal Clean Fuel Vehicle ILEV urability Group Name educed Fee Test Group omplies with HD GHG 2b/3 regulations? ntroduction into Commerce Date	No No GTYXHHGNNB26 No No	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s) CAP2000 Conditional Certificate?	 Yes 1.2 FA, CA N/A
uel Cell Indicator ederal Clean Fuel Vehicle ederal Clean Fuel Vehicle ILEV purability Group Name educed Fee Test Group complies with HD GHG 2b/3 regulations? ntroduction into Commerce Date ndependent Commercial Importer?	No No GTYXHHGNNB26 No	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s)	 Yes 1.2 FA, CA
¹ ¹ ¹ ¹ ¹ ¹ ¹ ¹	No No GTYXHHGNNB26 No 	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s) CAP2000 Conditional Certificate? Alternative Fuel Converter Certificate?	 Yes 1.2 FA, CA N/A
¹ 'uel Cell Indicator ¹ 'uel Cell Indicator ¹ 'ederal Clean Fuel Vehicle ¹ 'ederal Clean Fuel Vehicle ILEV ¹ 'ederal Clean Fuel Vehicle ILEV ¹ 'ederal Comp ² 'ederal Compercial Importer? ² FTP Federal Composite Compliance dentifier	No No GTYXHHGNNB26 No No	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s) CAP2000 Conditional Certificate?	 Yes 1.2 FA, CA N/A
Fuenpie FuerComposition Fuel Cell Indicator Federal Clean Fuel Vehicle Durability Group Name Reduced Fee Test Group Complies with HD GHG 2b/3 regulations? Introduction into Commerce Date Independent Commercial Importer? SFTP Federal Composite Compliance dentifier SFTP LEV-III Composite Compliance Indicator	No No GTYXHHGNNB26 No 	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s) CAP2000 Conditional Certificate? Alternative Fuel Converter Certificate?	 Yes 1.2 FA, CA N/A
¹ 'uel Cell Indicator ¹ 'ederal Clean Fuel Vehicle ¹ 'ederal Clean Fuel Vehicle ILEV ¹ 'ederal Clean Fuel Vehicle ILEV ² 'ederal Clean Fuel Vehicle ILEV ² 'ederal Group ² 'ederal Group ² 'ederal Competence Date ² 'ederal Composite Compliance ² 'edentifier FTP LEV-III Composite Compliance ² 'ederal Composite Compliance	No No GTYXHHGNNB26 No Tier 2	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s) CAP2000 Conditional Certificate? Alternative Fuel Converter Certificate?	 Yes 1.2 FA, CA N/A
Suel Cell Indicator Sederal Clean Fuel Vehicle Sederal Clean Fuel Vehicle ILEV Durability Group Name Reduced Fee Test Group Complies with HD GHG 2b/3 regulations? Introduction into Commerce Date ndependent Commercial Importer? FTP Federal Composite Compliance dentifier FTP LEV-III Composite Compliance	No No GTYXHHGNNB26 No No Tier 2 Yes	EPA Vehicle Class Federal Clean Fuel Vehicle Standard California Partial Zero Emissions Vehicle Indica Durability Group Equivalency Factor Certification Region Code(s) CAP2000 Conditional Certificate? Alternative Fuel Converter Certificate? SFTP Tier 2 Composite CO Option	 Yes 1.2 FA, CA N/A Yes

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Test group: GTYXV01.8PC3

Test Group		GTYXV01.8PC3		Evaporative/Refuelir	ng Family	GTYXR0130J	172	
Evaporative/Refuel	ing Family Inform	ation						
Evaporative Summary 1	Information Type	New		Submission/Correction	on Date	09/24/2015		
Integrated ORVR?	••	No		Fuel(s)		Electricity,Ga	soline	
Multiple Fuel Storage		Fuels Stored Together						
Bladder Fuel Tank?		No						
Fuel Tank Material		Plastic		Fuel Tank Material I	Description	EVOH		
Fill Pipe Seal Type		Liquid seal						
Air Intake System Vapo	or Storage Device?	Yes		Air Intake System Va	apor Storage Device Descripti	on Carbon filter i	in the air cleaner box	
Fuel System Vapor Stor	age Canister?	Yes		Other Vapor Storage	e	N/A		
Fuel System Vapor Stor Working Capacity (gran		130	Number of Prin		Canisters	1		
Number of Bleed Canist	ters	0		Bleed Canister Total	Working Capacity (grams)	N/A		
Mfr Evaporative/Refuel	ling Family Comments							
Leak Family Details	s							
Leak Family Indicator		No						
Canister Bleed Test Ind	icator	No	A		oorative Canister Bleed Test			
Evaporative Canister B	leed Test Comments							
CARB Fuel Only (Rig)	Fest Indicator	No		Applicability of CAR	RB Fuel Only (Rig) Test			
CARB Fuel Only (Rig)	Fest Comments							
Models Covered by	this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup	
Tovota Motor								
Corporation	1 - TOYOTA	60 - PRIUS	Federal	2-Wheel Drive, Fron	t Continuously Variable	1	No	
Toyota Motor Corporation	1 - TOYOTA	60 - PRIUS	California + CAA Section 177 states	2-Wheel Drive, Fron	t Continuously Variable	1	No	
Engine Description								
Hybrid Type		IC Engine/Electric Motor		Hybrid Description				
Engine Type		4-Stroke Spark Ignition		Mfr Engine Descript	ion			
Engine Block Arrangem	ient	Inline		Mfr Engine Block Ar	rrangement Description			
Camless Valvetrain Ind	icator	No		Oil Viscosity/Classifi	cation	0W-20		
Number of Cylinders/Re	otors	4						
After Treatment De	evice(s) (ATD)							
ATD Numbe	er	АТД Туре	ATD Prec	cious Metal	Substrate Material	Substi	rate Construction	
1		Three-way catalyst		+ Rhodium	Ceramic		Monolith	
2		Three-way catalyst	Platinum	+ Rhodium	Ceramic		Monolith	
Mfr After Treatment D	evice (ATD)							
Comments	••••••(••••)							
		 Not Equipped						
Comments	n (DOR) Device	 Not Equipped 						

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Certification Summary Information Report

Test Group		GTYXV)1.8PC3	Ev	vaporative/Refueling	Family		GTYXR	01 3 0J72	
Engine Conf	iguration Number	r 1								
Engine Displace	ement (liters)	1.8		Ei	ngine Rated Horsepov	wer		96		
Number of Inle	t Valves Per Cylinder	· 2		N	umber of Exhaust Va	lves Per Cylin	der	2		
Air Aspiration	Method	Naturally	Aspirated	N	umber of Air Aspirat	ion Devices		N/A		
Air Aspiration	Device Configuration		Charge Air Cooler Type N/A							
Cylinder Deact	ivation Description	N/A								
Variable Valve	Timing System Descr	iption Intake		Va	ariable Valve Lift Sys	stem		N/A		
Number of Kno	ock Sensors	1								
Air/Fuel Sensor	: # 1 Туре	Heated or	tygen	Ai	ir/Fuel Sensor # 1 Des	scription		N/A		
Air/Fuel Sensor	: # 2 Туре	Heated ai	r fuel	Ai	ir/Fuel Sensor # 2 Des	scription		N/A		
Mfr Air/Fuel Se	ensor Comments									
Exhaust Gas Re	ecirculation	Yes		E	GR Type			Electronic/Electric		
Cooled Exhaust	t Gas Recirculation	Yes								
-	r Injection System	No		Ai	ir Injection Type					
Mfr Engine Co	nfiguration Comment	ts								
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	N/A
Electricity	GTYX10038745	GTYX10038746	GTYX10038740	GTYX10038684	GTYX10038747	N/A	N/A		N/A	N/A
SFTP LEV-I	II Official Test N	umbers								
Test	Group Fuel	F	ГР	U	S06		SC03			
	lectricity	GTYX1	0038745	GTYX	10038746	GT	YX10038740			
	Gasoline	GTYX1	0038745	GTYX	10038746	GT	YX10038740			

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7. Test Results

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling Family	GTYXR0130J72
Hybrid Electric Vehicle And Fuel C	ell Information		
Rechargable Energy Storage System	Battery(s)	Rechargable 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	N/A		
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 (k	(g)	Usable H2 Fill Capacity (kg)	
Mfr Hybrid Electric/ Electric Vehicle Comments			

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GTYXR0130J72

7. Test Results

Test Group	GTYXV01.8PC3	Evaporative/Refueling H	amily
Emission Data Vehicle Information	1		
Vehicle ID / Configuration	16-ZV1H/0		
Vehicle Model			
Represented Test Vehicle Make	ΤΟΥΟΤΑ	Represented Test Vehic	le Model
Leak Family Details			
Leak Family Identifier		Leak Family Name	
Drive Sources and Fuel System De	tails		
Drive Sou	rce and Fuel#	Drive Source	
	1	Electric Motor	
	2	Combustion Engine	
Hybrid Indicator	Y		
Multiple Fuel Storage		Multiple Fuel Combusti	on
Fuel Cell Indicator	Ν	Rechargeable Energy St	torage S
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy St	torage S
Off-board charge Capable Indicator	Ν		
Transmission Type	Continuously Variable	# of Transmission Gears	8
Engine Code	01	Axle Ratio	
Displacement (liters)	1.798	Rated Horsepower	
Equivalent Test Weight (pounds)	3375	Air Aspiration Method	
Drive Mode While Testing	2-Wheel Drive, Front	SIL Usage	
Aged Emission Components	4,000 (mi)		
Dynamometer Coefficients:			
Tar	get Coefficients	Set Coefficients	
Coefficient	D (lhf/much) C (lhf/much**1)		

Linission Duta v	entere mitor mut	ion							
Vehicle ID / Configu	iration	16-ZV1H	[/0						
Vehicle Model									
Represented Test Vo	ehicle Make	TOYOTA	ł		Represented T	est Vehicle Model		PRIUS	
Leak Family Det	tails								
Leak Family Identif	ier				Leak Family N	ame			
Orive Sources ar	nd Fuel System I	Details							
Γ	Drive	Source and Fuel#		Driv	e Source		Fuel		
_		1			ric Motor		Electrici	ty	
		2		Combu	stion Engine		Gasolin	e	
Iybrid Indicator		Y							
Multiple Fuel Stora	ge				Multiple Fuel (Combustion			
Fuel Cell Indicator	2	Ν		Rechargeable Energy Storage System Indicator				Υ	
Rechargeable Energ	y Storage System	Battery(s	Battery(s)			Energy Storage Sys	tem, if 'Other'		
)ff-board charge Ca	apable Indicator	Ν							
Transmission Type	•				# of Transmissi	on Gears		1	
Ingine Code		01			Axle Ratio			2.83	
)isplacement (liters)	1.798			Rated Horsepo	wer		96	
Quivalent Test Wei	ight (pounds)	3375			Air Aspiration	Method		Naturally Aspirated	
rive Mode While T	esting	2-Wheel	Drive, Front		SIL Usage			Not eqipped	
ged Emission Com	ponents	4,000 (mi	i)						
Dynamometer C	oefficients:								
	1	larget Coefficient	ts		Set Coefficients				
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		ed Total Road Load Horse Powe Highway/Evap Coefficients	er for
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	
Anufacturer Test `	Vehicle Comments	POWER	SHIFT PATTERN						
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			Fage 0 01 20		SUT/REVISION D	ale. 09/30/2013			

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Date: 09/30/2015 04	:39:13 AM		Certificat	tion Summary Inf	ormation Re	eport		
Test Group		GTYXV01.8PC3	1	Evaporativ	ve/Refueling Fa	omily	GTYXR0130J72	
Fest #		GTYX1003786	50	Test Proc	edure		27 - California f	uel 2-day evar
Exhaust Test # for	this Evap Test	GTYX10037853		Test Fuel]	Гуре		46 - CARB LEV3 Gasoline	E10 Regular
Fest Date		09/08/2015		Fuel			Gasoline	
Vehicle Class		N/A		DF Type			Mfr. Determined	
Verify Test Lab ID)	Higashifuji Tech						
E10 Evaporative T Test Results	°est Measurement Met	Actual Total Hyd hod Measurement (w	trocarbon Equivalent ith speciation)					
	Test I	Result Name	τ	Inrounded Test Resul	t	Verify Calculated FE MP	G Equivalent Value]
	Total Hydrocarbo	n equivalent - Evap on	ly	0.1176				
Region Fed	Useful Life 120,000 miles		Emission Name HC-TOTAL-EQUIV	Rounded Result 0.118	Add DF 0.000	Certification Level 0.12	Standard 0.65	Pass/Fail Pass
Fed	120,000 miles 150,000 miles		HC-TOTAL-EQUIV HC-TOTAL-EQUIV	0.118	0.000	0.12	0.65	Pass Pass
CA	150,000 miles	Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1170	0.000	0.110	0.300	rass

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7. Test Results

Test Group		GTYXV01.8PC	3	Evaporativ	e/Refueling Fa	amily	GTYXR0130J72	
n , <i>u</i>				T (D				
Fest #		GTYX100378		Test Proce			38 - CA fuel 3-6	• •
Exhaust Test # for t	this Evap Test	GTYX10037852	2	Test Fuel T	уре		46 - CARB LEV3 Gasoline	E10 Regular
Fest Date		09/15/2015		Fuel			Gasoline	
Vehicle Class		N/A		DF Type			Mfr. Determined	
erify Test Lab ID		Higashifuji Tech						
-	est Measurement Met	Actual Total Hy hod Measurement (w	drocarbon Equivalent vith speciation)					
Fest Results								_
-		Result Name		nrounded Test Result		Verify Calculated FE MPC	Equivalent Value	_
	Total Hydrocarbo	on equivalent - Evap o	nly	0.1316				
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles		HC-TOTAL-EQUIV	0.132	0.000	0.13	0.50	Pass/Fail Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1316	0.000	0.132	0.300	Pass

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7. Test Results

fest Group		GTYXV01.8PC:	3	Evaporativ	e/Refueling Fa	amily	GTYXR0130J72	
Fest #		GTYX100378	63	Test Proc	edure		24 - Federal fue (ORVR)	l refueling test
Exhaust Test # for	this Evap Test	GTYX10037853		Test Fuel 1	уре		61 - Tier 2 Cert Ga	soline
Fest Date		06/09/2015		Fuel			Gasoline	
Vehicle Class		N/A		DF Type			Mfr. Determined	
Verify Test Lab II		Higashifuji Tech	nical Center					
-	est Measurement Me	thod						
Cest Results								
	Test	Result Name		Unrounded Test Result		Verify Calculated FE MPC	F Equivalent Value]
	Hydrocarbon for	Running Loss and ORV	/R	0.0085961				
Manufacturer Tes	t 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	HC	0.009	0.000	0.01	0.20	Pass
		Zero Evap (Option 2)						

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7. Test Results

			Certificat	tion Summary Inf	formation Re	eport		
Fest Group		GTYXV01.8PC3		Evaporati	ive/Refueling Fa	omily	GTYXR0130J72	
Fest #		GTYX1003789	9	Test Pro	cedure		37 - California I Loss	Fuel Running
Exhaust Test # for 1	this Evap Test	GTYX10037852		Test Fuel	Туре		46 - CARB LEV3 Gasoline	E10 Regular
Fest Date		09/15/2015		Fuel			Gasoline	
Vehicle Class		N/A		DF Туре			Mfr. Determined	
Verify Test Lab ID)	Higashifuji Techn	nical Center					
E10 Evaporative T	est Measurement Meth	od Calculated (1.08 x	x FID Total Hydrocar	bons)				
Fest Results								
[esult Name		Inrounded Test Resu	lt	Verify Calculated FE MI	'G Equivalent Value	
	Total Hydrocarbon	n equivalent - Evap onl	ly	0				
Manufacturer Test	t Comments							
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles		HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass
		2)						
		2)						
		2)						
		2)						
		2)						

7. Test Results

Certification Summary Information Report

Test Group		GTYXV	01.8PC3		Evaporative/Re	efueling Family		GTYXR0130J72
Emission Data Veh	icle Informat	ion						
/ehicle ID / Configura	tion	16-ZV3H	/ 0					
Vehicle Model								
Represented Test Vehi	cle Make	TOYOTA	1		Represented To	est Vehicle Model		PRIUS
Leak Family Detai	ls							
Leak Family Identifier					Leak Family N	ame		
Drive Sources and	Fuel System I	Details						
	Drive	Source and Fuel#		Dri	ve Source		Fuel	
		1			istion Engine		Gasolin	
		2			etric Motor		Electrici	ity
Technid Tudiooton		Y						
Hybrid Indicator Multiple Fuel Storage		Y 			Multiple Fuel (amhustian		_
Fuel Cell Indicator		N			-	Energy Storage Syste	m Indicator	 Y
Rechargeable Energy S	Storage System	Battery(s))		-	Energy Storage Syste		
Off-board charge Capa		N					,	
Fransmission Type		Continuo	usly Variable		# of Transmissi	ion Gears		1
Engine Code		01	-		Axle Ratio			2.83
Displacement (liters)		1.798			Rated Horsepo	wer		96
Equivalent Test Weigh	t (pounds)	3375			Air Aspiration	Method		Naturally Aspirated
Drive Mode While Tes	ting	2-Wheel	Drive, Front		SIL Usage			Not eqipped
Aged Emission Compo	nents	4,000 (mi)					
Dynamometer Coe	fficients:							
	1	farget Coefficient	s		Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		ed Total Road Load Horse Power for Highway/Evap Coefficients
City/Highway/Evap	31.145	0.35285	0.013956	18.843	0.17373	0.015138		11.2
	34.605	0.39206	0.015507	16.019	0.08909	0.018067		N/A
Cold CO		0.35285	0.013956	18.843	0.17373	0.015138		N/A
Cold CO US06	31.145	0.55205						

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fest Group			GTYXV01.8PC3			Evaporativ	ve/Refueling Fa	amily		GTYXR01	30J72	
Fest #			GTYX1003868	4		Test Proc	edure			11 - Cold	со	
xhaust Test # for	this Evap	Test	N/A			Test Fuel	Гуре			26 - Cold (O Regular (1	ier 2)
est Date			09/08/2015			Fuel				Gasoline		
ehicle Class			LDV/Passenger C	ar		DF Type				Mfr. Deter	nined	
erify Test Lab ID			Higashifuji Techr	ical Center								
10 Evaporative T	est Measu	rement Method										
est Results		T+ D1	4 D		T T	J. J.T 4 D		17	-1-4-1 EE MD	C F	7-1	
		Test Resul				ided Test Resul	L	verny Caic	ulated FE MP	G Equivalent '	value	
		Bag 1 Carbo				262.7096				40		
		Bag 1 Fuel I	•			2.283648			32.28364	48		
		Bag 2 Carbo				148.1485 9.2792461			50.27024	61		
		Bag 2 Fuel I	•						59.27924	01		
		Bag 3 Carbo				194.7439				76		
		Bag 3 Fuel I				4.9979276 115.8064			44.99792	. /0		
		Bag 4 Carbo				75.421059			75.42105	50		
		Bag 4 Fuel I Carbon Me				.1222072			/3.4210.	9		
	Drivo		peed Change Rati	ng	1	1.98						
			Economy Rating	IS		0.73						
			Vork Ratio Rating			3.25						
		Manufacturer F				9.5938769			49.59387	769		
		Nitrogen				0.018425				0,5		
		Non-methane H				0.1575709						
		Total Hydr	-			0.1685887						
		Test Resul Carbon d				1ded Test Resul 75.1363102	t	`	Verify Calcula 	ted CO2		
lanufacturer Test	Commen	ts										
Certification Region Use	ful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
	00 miles	Federal Tier 2	CO	1.12				0.02		1.1	10.0	Pass
		Bin 3										
Fed 150,0	000 miles	Federal Tier 2 Bin 3	HC-NM	0.16				0.00		0.2	0.3	Pass
CA 50,0	00 miles	California LEV- III SULEV30	CO	1.12				0.02		1.1	10.0	Pass
			Pa	ge 11 of 26	CSI Subm	ission/Revisio	on Date: 09/3	30/2015				

7. Test Results

Test Group	GTYXV01.8PC3	Evaporative/Refueling	g Family GTYXR0130J72
Test #	GTYX10038745	Test Procedure	35 - California fuel 3-d exhaust
Exhaust Test # for 1	this Evap Test N/A	Test Fuel Type	46 - CARB LEV3 E10 Reg Gasoline
Test Date	09/03/2015	Fuel	Gasoline
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Higashifuji Technical Center		
E10 Evaporative Te Test Results	est Measurement Method		
	Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
	Bag 1 Carbon Dioxide	0	
	Bag 1 Fuel Economy	999	999
ľ	Bag 2 Carbon Dioxide	0	
Ì	Bag 2 Fuel Economy	999	999
	Bag 3 Carbon Dioxide	0	
	Bag 3 Fuel Economy	999	999
	Bag 4 Carbon Dioxide	0	
	Bag 4 Fuel Economy	999	999
	CH4 - Methane	0.0020532	
	Carbon Monoxide	0.0840111	
	Drive Trace Absolute Speed Change Rating	0.18	
	Drive Trace Energy Economy Rating	-0.23	
	Drive Trace Inertia Work Ratio Rating	0.25	
	Manufacturer Fuel Economy	999	999
	Nitrogen Oxide	0.0033324	
Ļ	Nitrous Oxide	0.0003784	
	Non-methane Hydrocarbon	0.010122	
-	Non-methane organic gas (California)	0.0111342	
-	Particulate Matter	0.0002801	
	Total Hydrocarbon	0.0120896	
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
	Carbon-Related Exhaust Emissions	0	999
ſ	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	137.2614219	

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Test Group			GTYXV01.8PC3			Evaporati	ve/Refueling Fa	mily		GTYXR01	30J72	
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	РМ	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

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Test Group		GTYXV01.8PC3	Evaporative/Refueling	g Family GTYXR0130J72
Test # Exhaust Test # for	• this Evap Test	GTYX10038747 N/A	Test Procedure Test Fuel Type	3 - HWFE 46 - CARB LEV 3 E10 Regula Gasoline
Test Date Vehicle Class Verify Test Lab II E10 Evaporative T Test Results	D Fest Measurement Method	09/03/2015 LDV/Passenger Car Higashifuji Technical Center 	Fuel DF Type	Gasoline Mfr. Determined
	Test Resul	lt Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
	CH4 - M	ethane	0.000844	
	Carbon M	onoxide	0.0201125	
	Drive Trace Absolute S	peed Change Rating	0.91	
	Drive Trace Energy	Economy Rating	-0.04	
	Drive Trace Inertia V	Vork Ratio Rating	0.89	
	Manufacturer F		999	999
	Nitrogen		0	
	Nitrous		0	
	Non-methane H		0.0005294	
	Non-methane organi		0.0005453	
	Total Hydr	ocardon	0.0013382	
	Test Resu	lt Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
	Carbon-Related Ex	thaust Emissions	0	999
	Test Resul	lt Name	Unrounded Test Result	Verify Calculated CO2
	Carbon d	lioxide	138.4099305	
Manufacturer Tes	st Comments	NMOG = HC-NM x 1.03		

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Certification Summary Information Report

Test Group			GTYXV01.8PC3			Evaporativ	/e/Refueling Fa	mily		GTYXR01	30J72	
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
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Test Group			GTYXV01.8PC3			Evaporati	ve/Refueling Fa	amily		GTYXR01	30J72	
Test #			GTYX1003874	6		Test Proc	edure	90 - US06				
Exhaust Test #	for this Evap	Test	N/A			Test Fuel	Гуре	46 - CARB LEV3 E10 R Gasoline				egular
Test Date			09/03/2015			Fuel				Gasoline		
Vehicle Class			LDV/Passenger C	ar		DF Type				Mfr. Detern	nined	
Verify Test La	b ID		Higashifuji Techr	ical Center								
E10 Evaporati	ive Test Measu	rement Method										
Test Results												
		Test Result	t Name		Unroun	ided Test Resul	t	Verify Calc	ulated FE MI	PG Equivalent V	alue	
		Bag 1 Carbo	n Dioxide			0						
		Bag 1 Fuel B	Economy			999			999			
		Bag 2 Carbo				0						
		Bag 2 Fuel E				999			999			
	_	Carbon Mo			(.2289439						
			peed Change Ratii	Ig		-0.84						
		ive Trace Energy				-0.41						
	Drw	Manufacturer F	Vork Ratio Rating			-1.16 999			 999			
		Nitrogen			ſ	0.0019095						
		Non-methane H				0.0151911						
	Noi	n-methane organi				0.0156468						
		Particulate	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			0.001295						
		Total Hydro	ocarbon		(0.0171269						
		v										
		Test Result	t Name		Unroun	ided Test Resul	t		Verify Calcul	nted CO2		
		Carbon d				0.5144847						
Manufacturer	Test Commen	ts	NMOG = HC-NM	f x 1.03								
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/Fa
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
rea	150,000 miles	California LEV-	PM	0.0013				0.0002		0.002	0.010	Pass

7. Test Results

Date: 09/30/201	5 04:39:13 AN	4		Cert	ification S	ummary Inf	ormation Re	eport				
Test Group			GTYXV01.8PC3		Evaporative/Refueling Family					GTYXR01	30J72	
Test #			GTYX1003874	0	Test Procedure					95 - SC03		
Exhaust Test #	for this Evap	Test	N/A	-		Test Fuel	Гуре				LEV3 E10 R	egular
Test Date			09/14/2015			Fuel				Gasoline		
Vehicle Class			LDV/Passenger (lar		DF Type				Mfr. Detern	nined	
Verify Test La	b ID		iical Center		••							
E10 Evaporati	C10 Evaporative Test Measurement Method											
Test Results												
		Test Resul	t Name		Unroun	ded Test Resul	t	Verify Calc	ulated FE MP	G Equivalent V	alue	
		Carbon Mo	onoxide			0.147765						
	Drive	Trace Absolute S	peed Change Ratii	ıg		0.5						
	Dr	ive Trace Energy	Economy Rating			0.06						
	Dri	ve Trace Inertia W	ork Ratio Rating			0.95						
		Manufacturer F	uel Economy		4	6.838829			46.8388	29		
		Nitrogen	Oxide			0.000518						
		Non-methane H	ydrocarbon			0.011199						
		Total Hydro	ocarbon			0.014						
		Test Result				ded Test Resul	t		Verify Calcula	ited CO2		
		Carbon d	ioxide		1	34.138984						
Manufacturer	Test Comme	ıts										
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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Test Group	GTY	XV01.8PC3		Evaporat	ive/Refueling Fam	uly	GT	YXR0130J72		
			Consolida	ated List of Sta	undards					
Exhaust Standa	rds									
Cert Region	Fede	al		Cert/In-U	Jse Code	Both				
Vehicle Class	LDV	/Passenger Car		Standard	Level		Federal Tier 2 Bin 3			
Fuel	Gaso	line		Test Proc	edure		Cal	ifornia 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	НСНО							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	CA fuel 50 Deg(F) exhaust test
		Downward	

		Rounded		NMOG /	Upward Diesel Adjustment	Diesel Adjustment			
Useful Life	Emission Name	Result	RAF	NMHC	Factor	Factor	Mult DF	Add DF	Std
4,000 miles	CO							0.00	1.0
4,000 miles	НСНО							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

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7. Test Results

NMOG / 2 NMHC	evel ure Adjustment Factor Code evel	Downward Diesel Adjustment Factor Downward Diesel	HW Mult DF Bott Cali	eral Tier 2 Bin 3 FE Add DF 0.075 0.0006	0.04
NMOG / 2 NMHC	Adjustment Factor Code evel ure	Diesel Adjustment Factor Downward	 Boti Cali	0.075 0.0006	999.99 0.04
 Cert/In-Use (Standard Le Test Procedu U NMOG / 2	 Code evel lure Upward Diesel	 Downward	 Bott Cali	0.0006 h	999.999 0.04
Cert/In-Use (Standard Le Test Procedu U NMOG / 2 NMHC	Code evel lure Upward Diesel	Downward	Botl Cali	h	
Standard Lev Test Procedu U NMOG / 2 NMHC	evel lure Upward Diesel		Cali		
Test Procedu U NMOG / 2 NMHC	ure Upward Diesel			fornia LEV-III SU	T. T. T. T. C. C.
U NMOG / 2 NMHC	Upward Diesel		Cali		LEV30
NMOG / 2 NMHC				fornia fuel 3-day e	xhaust
NMHC		Adjustment			
	Factor	Factor	Mult DF	Add DF	Std
				0.07	1.0
				0.07	4.2
				0.0000	0.004
1.10				0.0047	999.99
1.10				0.0053	0.030
1.03				0.0053	0.030
				0.0006	999.99
				0.0002	0.003
Cert/In-Use (Cada		Both		
Standard Lev				eral Tier 2 Bin 3	
Test Procedu				f two speed idle te	-+
Uj NMOG / 2	Upward Diesel Adjustment	Downward Diesel Adjustment		-	
					0.5
					100
					104
	NMOG / NMHC	NMHC Factor	NMHC Factor Factor	NMHC Factor Factor Mult DF	NMHC Factor Factor Mult DF Add DF

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7. Test Results

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Test Group	G	TYXV01.8PC3		Evapora	tive/Refueling Fam	ily	GT	YXR0130J72			
Cert Region Vehicle Class Fuel	L	California + CAA Section 177 statesCert/In-Use CodeLDV/Passenger CarStandard LevelGasolineTest Procedure			Standard Level		Both California LEV-III SULEV30 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 Vehicle Class Fuel	L	FederalCert/In-Use CodeLDV/Passenger CarStandard LevelGasolineTest Procedure			LDV/Passenger Car				Bot Fed SC0	leral Tier 2 Bin 3	
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		alifornia + CAA Section	n 177 states		Use Code		Bot		U EX 20		
Vehicle Class Fuel		DV/Passenger Car asoline		Standar Test Pro			Can	ifornia LEV-III SU /FF	LEV30		
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 Vehicle Class Fuel	L	ederal DV/Passenger Car asoline		Cert/In- Standare Test Pro				h leral Tier 2 Bin 3 d CO			
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std		
	CO							0.02	10.0		
50,000 miles								0.00	0.3		

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7. Test Results

Test Group	GTY	XV01.8PC3		Evaporative/Refueling Family				GTYXR0130J72		
Cert Region Vehicle Class Fuel	Fede LDV Gase	/Passenger Car		Cert/In- Standar Test Pro			Bot Fed US(eral Tier 2 Bin 3		
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 Vehicle Class Fuel		òrnia + CAA Secti /Passenger Car line	on 177 states	Cert/In- Standar Test Pro				h ifornia LEV-III SU d CO	JLEV30	
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	
Evaporative/Refueling Fan Cert/In-Use Code Test Procedure	Both	XR0130J72 ornia Fuel Runnin	g Loss	Cert Reş Standar	- -			fornia + CAA See fornia LEV-III Ze		
Fuel	Useful Life	X	Emission Name	F	ounded Result		Std	Ar	d DF	
Gasoline	150,000 mil		HC-TOTAL-EQUIV				0.05		.000	
Evaporative/Refueling Fan Cert/In-Use Code	Both	XR0130J72 uel 3-day evap.		Cert Res Standar	,			fornia + CAA Sec fornia LEV-III Ze		
Test Procedure	Useful Life		Emission Name	E	ounded Result		Std	λi	d DF	
Test Procedure			HC-TOTAL-EQUIV	r			0.300		.000	
Test Procedure Fuel Gasoline	150,000 mil	es l	IC-IOIML-LQOIV							
Fuel	150,000 mil	XR0130J72		Cert Reg Standar	,		Fed	eral eral LEV-II Evap		
Fuel Gasoline Evaporative/Refueling Fam Cert/In-Use Code	150,000 mil	XR0130J72 `ornia fuel 2-day ev		Standar	,			eral LEV-II Evap	d DF	

7. Test Results

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Test Group	GTYXV01.8P	С3	Evaporative/Refueling Family	GI	YXR0130J72			
Evaporative/Refueling Family	GTYXR0130J	72	Cert Region		lifornia + CAA Section 177 states lifornia LEV-III Zero Evap (Optior			
Cert/In-Use Code	Both		Standard Level	2)				
Test Procedure	Federal fuel re	fueling test (ORVR)						
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF			
Gasoline	150,000 miles	НС		0.20	0.000			
Evaporative/Refueling Family	GTYXR0130J	72	Cert Region	Fe	deral			
Cert/In-Use Code	Both		Standard Level	Fe	deral LEV-II Evap			
Test Procedure	Federal fuel re	fueling test (ORVR)						
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF			
Gasoline	120,000 miles	НС		0.20	0.000			
Evaporative/Refueling Family	GTYXR0130J	72	Cert Region	Fe	deral			
Cert/In-Use Code	Both		Standard Level	Fe	deral LEV-II Evap			
Test Procedure	Spitback				1			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF			
Gasoline	120,000 miles	SPITBACK		1.0	0.000			
Evaporative/Refueling Family	GTYXR0130J	72	Cert Region		lifornia + CAA Section 177 states			
Cert/In-Use Code	Both		Standard Level	Ca 2)	lifornia LEV-III Zero Evap (Option			
Test Procedure	California fuel	2-day evap	Standard Dever	2)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF			
Gasoline	150,000 miles	HC-TOTAL-EQUIV		0.300	0.000			
Evaporative/Refueling Family	GTYXR0130J	72	Cert Region	Fe	deral			
Cert/In-Use Code	Both		Standard Level	Fe	deral LEV-II Evap			
Test Procedure	California Fuel	Running Loss						
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF			
	120,000 miles	HC-TOTAL-EQUIV		0.05	0.000			

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7. Test Results

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Test Group	GTYXV01.8PC	3	Evaporative/Refueling Family	GTY	XR0130J72
Evaporative/Refueling Family	GTYXR0130J72	2	Cert Region	Feder	ral
Cert/In-Use Code	Both		Standard Level	Feder	ral LEV-II Evap
Test Procedure	CA fuel 3-day er	vap.			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	120,000 miles	HC-TOTAL-EQUIV		0.50	0.000

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling	g Family GTYXR0130J72
	Gl	ossary	
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		
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Star	ndard Level		
B1	Federal Tier 2 Bin 1	L3ULEV340	California LEV-III ULEV340
B2	Federal Tier 2 Bin 2	L3ULEV250	California LEV-III ULEV250
В3	Federal Tier 2 Bin 3	L3ULEV200	California LEV-III ULEV200
B4	Federal Tier 2 Bin 4	L3SULEV170	California LEV-III SULEV170
В5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150

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L3LEV160	Califo
L3ULEV125	Califo
L3ULEV70	Califo

GTYXV01.8PC3	Evaporative/Refue	Evaporative/Refueling Family		
Federal Tier 2 Bin 6	L3LEV630	Californ		
Federal Tier 2 Bin 7	L3ULEV570	Califorr		
Federal Tier 2 Bin 8	L3ULEV400	Califorr		
Federal Tier 2 Bin 9	L3ULEV270	Califorr		
Federal Tier 2 Bin 10	L3SULEV230	Califorr		

B6 California LEV-III LEV630 B7 570 California LEV-III ULEV570 B8 400 California LEV-III ULEV400 В9 270 California LEV-III ULEV270 B10 V230 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 U2California 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 Federal Tier 3 Bin 50 T3B50 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 HDV2B200 Federal Tier 3 HD Class 2b Bin 200 California LEV-II LEV395 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 ornia LEV-III LEV160 HDV3B630 Federal Tier 3 HD Class 3 Transitional Bin 630 ornia LEV-III ULEV125 HDV3B570 Federal Tier 3 HD Class 3 Transitional Bin 570 Federal Tier 3 HD Class 3 Bin 400 ornia LEV-III ULEV70 HDV3B400 California LEV-III ULEV50 L3ULEV50 HDV3B270 Federal Tier 3 HD Class 3 Bin 270 L3SULEV30 California LEV-III SULEV30 HDV3B230 Federal Tier 3 HD Class 3 Bin 230 L3SULEV20 Federal Tier 3 HD Class 3 Bin 200 California LEV-III SULEV20 HDV3B200 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) Μ Manual А 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-Wheel Drive Р Part-time 4-Wheel Drive F 2-Wheel Drive, Front Α All Wheel Drive R 2-Wheel Drive, Rear Page 25 of 26 CSI Submission/Revision Date: 09/30/2015

Certification Summary Information Report

Date: 09/30/2015 04:39:16 AM

Test Group

GTYXR0130J72

: 7-GTYXV01.8PC3-25 Page Issued : 10/01/2015

Test group: GTYXV01.8PC3

Date: 09/30/2015 04:39:16 AM

Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Ro	efueling Family	GTYXR0130J72		
Additional Terms and Acronyms						
AFC	Alternative Fuel Converter	ICI	Independent Comm	ercial Importer		
CSI	Certificate Summary Information	ORVR	Onboard Refueling	Vapor Recovery		
DF	Deterioration Factor	SIL	Shift Indicator Ligh	ıt		
Evap	Evaporation, Evaporative	Trans	Transmission			

Page 26 of 26 CSI Submission/Revision Date: 09/30/2015

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. <u>OBD System Description</u>

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

11. <u>Auxiliary Emission Control Devices (AECD) Descriptions</u>

12. Description of Vehicles Covered by Certificate

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	Trans- mission*2/ Overdrive	SIL	Tire*1	N/V	ETW (lb.)	Fuel tank vol. (L)
DDILIC	ΤΟΥΟΤΑ	ZVW50L-AHXEBA	01	4	1.798	50	P610 (AV-3) / N/A	N/A	195/65R15 SM#2	20.0	3375	43
PRIUS	PRIUS TWO		01	4	1.798	50	P610 (AV-3) / N/A	N/A	P195/65R15 AS	20.0	3375	43

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

13. <u>Projected Sales and Compliance Plans</u>

14. <u>Request for Certificate</u>

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:

Federal: Tier1 Interim Tier2	Non-Tier2	low-altitude	high altitu X	de	Bin No
California:	LEVI : LEV LEVII : LEV SULEV LEVIII : LEV10 ULEV70 SULEV30(AT		ULEV ULEV ULEV125 ULEV50 SULEV20		

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

Kur D. Wehher

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

15. <u>Other Information</u>

15.1 Fee filing form

SEPA Motor Vehicle and Engi On-Highway F	al Protection Agency ine Compliance Program Fee Filing Form Received In Calendar Year 2015
Manufacturer Name Toyota Motor Engineering & Mfg. NA	
Address 1555 Woodridge Ave.	
City/State/Zip Code/Country Ann Arbor, MI 48105 (USA)
On-Highway Certification	Request Type (check one)
X LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL (\$2	26,741) 🗌 HDV EVAP-ONLY (\$563)
LDV/LDT/MDFV/HDV (Chassis cert) CAL-ONLY (\$	14,193) 🗌 HDE CALIF-ONLY (\$563)
HDE (Engine Dyno cert) FEDERAL (\$47,664)	MOTORCYCLE (\$1,852)
	LD/MDPV/HDV ICI (\$76,399)
EPA standard family or test group:	G T Y X V 0 1 . 8 P C 3
Amount paid (U.S. Funds Only):	\$ 26,741.00
Enter the check number, or the statement "WIRE" or	"ACH":
Reduced Fee Sectior Reduced fee calculation (minimum initial payment \$	A (40 CFR \$1027.120) 750): Total number of vehicles/units covered:
Reduced Fee Sectior Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units	<pre>A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$ x 1% = \$</pre>
Reduced Fee Sectior Reduced fee calculation (minimum initial payment \$	<pre>A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$ x 1% = \$</pre>
Reduced Fee Sectior Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units	<pre>A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$ x 1% = \$</pre>
Reduced Fee Sectior Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units	<pre>A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$ x 1% = \$</pre>
Reduced Fee Section Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units Check box if an Independent Commercial Importer: [A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$ x 1% = \$] List the VIN of imported vehicles/engines below
Reduced Fee Section Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units Check box if an Independent Commercial Importer: [A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$ x 1% = \$] List the VIN of imported vehicles/engines below
Reduced Fee Sectior Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units	A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$x 1% = \$] List the VIN of imported vehicles/engines below Signature: Luid D-WAMM
Reduced Fee Section Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units Check box if an Independent Commercial Importer: [A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$x 1% = \$] List the VIN of imported vehicles/engines below Signature: Luid D-WAMM
Reduced Fee Section Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units Check box if an Independent Commercial Importer: [A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$x 1% = \$] List the VIN of imported vehicles/engines below Signature: 7132734/995-9049 Date:02/12/2015 or without payments online at www.Pay.gov.
Reduced Fee Section Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units Check box if an Independent Commercial Importer: [A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$
Reduced Fee Section Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units Check box if an Independent Commercial Importer: [A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$ x 1% = \$] List the VIN of imported vehicles/engines below
Reduced Fee Section Reduced fee calculation (minimum initial payment \$ Aggregate retail sales price of the vehicles/units Check box if an Independent Commercial Importer: [A (40 CFR \$1027.120) 750): Total number of vehicles/units covered: : \$

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

16. <u>Confidential Information</u>

17. <u>California ARB Information</u>

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)

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

Manufacturer: TOYOTA Exh Test Group: <u>GTYXV01.8PC3</u> Evap Fam: <u>GTYXR0130J72</u>
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
ULEV50SULEV30SULEV20SULEV30(AT PZEV)_x
Evap Std: 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: <u>N/A</u> (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 <u>x</u> 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:4Rated HP1: 96@5,200RPM
Engine: Front <u>x</u> 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)

	Vehicle Models	(M5, A4,		DPA or
50ST	(if coded see attachment)	$etc.)^{*1}$	Wt	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

Page 2016 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES Manufacturer: TOYOTA Exh Test Group: <u>GTYXV01.8PC3</u> Evap Fam: GTYXR0130J72 All Eng Codes in Eng Fam: CA 49S ORVR: YES x 50S x AB965 NO Exh Std: CA LEVII: LEV ULEV **SULEV** US EPA Interim Non-Tier2 LEVIII: LEV160 ULEV125 ULEV70 Tier2 x SULEV30 (AT PZEV) x ULEV50 SULEV30 SULEV20 Evap Std: LEVII LEVII Zero-Evap LEVIII (Option 1) LEVIII (Option 2) MDV2 MDV3 MDV4 MDV5 Veh Class(es): PC x LDT1 LDT2 MDV1 Single Cert Std for Multi-Class Eng Fam: (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4) N/A Dual-Fuel Fuel Type(s): Dedicated x Flex-Fuel Bi-Fuel Gasoline x Diesel CNG LPG M85 Other (specify) LNG Indo ____ CBG <u>x</u> CNG_ M85 ____ Exh Emiss Test Fuel(s): LPG Other (specify) 40 CFR 86.113-90 Diesel: 13 CCR 2282 40 CFR 86.113-94 Evaporative Emission Test Procedure: California x Federal Mfr ADP <u>x</u> Service Accum: Mod AMA Other (specify) Std AMA R/L Test Proc: SHED NMOG Test Procedure: N/A Pt Source x Std Equiv x 1.8 Liters 109.7 Cubic Inches Engine Configuration: I-4 Displacement: Valves per Cylinder: 4 Rated HP1: 96@5,200 RPM Engine: Drive: FWD <u>x</u> RWD 4WD-FT 4WD-PT Front x Mid Rear ____ SFI,EGR,EGRC,WR-HO2S,TWC(2),HO2S Exhaust ECS (e.g., MFI, EGR, TC, CAC): (use abbreviations per SAE J1930 JUN93) Section # Section # 1 Authorized Representative 22 Gen std, increase in Emiss, FOI-1.2 2 **Fuel Specifications** Safety, Meets all Reqm FOI-8 3 23 Test Equipment **Driveability Statement** FOI-17.1 4 **Test Procedure** 24 Adjustable Parameters 25 5 Mileage Accumulation Route CBI-4 Tamper Resistance Method(s) 6 **Emission Warranty Statement** Part2 FOI-6.00.01 26 **Fill Pipe Specifications** FOI-17.3 7 Maint: Cert/Req'd/Recm'd 27 High Altitude Compliance FOI-17.2 -28 **OBD** Sys incl Marked Revisions 8 Emiss Label/Vac Hose Diag CBI-9.1 9 Evap Control System FOI-3 29 I & M Test Procedure & Data 50 Degree F Compliance 10 **Engine Parameters** 5 30 -11 Fuel System 31 Manufacturer's RAF 12 Ignition System 32 Phase-In Plans CBI-17 13 Exhaust Control System FOI-5 33 NMOG+NOx Fleet Average 14 Proj Sales(LDT/MDV Split) CBI-17.1 Calculation CBI-17.13 15 Vehicle Description 12.1 34 AB965 Credits/Withdrawals 16 Evap Bench Test Procedure 35 **EPA** Certificate to follow 17 R/L Temp & Press Profiles FOI-4.3 36 Equiv NMOG Proc-ARB Approval NMOG/NMHC= 18 **EDV Selection** FTP=1.10, SFTP&HWY=1.03 FOI-17.1 19 Prod Veh same as Test Veh 20 Emission Label Durability Durability Emission Emission Emission 21 Test Vehicle Information Data Vehicle Data Vehicle Data Vehicle Data Vehicle C/O or C/A MY ID C/A 16B-ZV1H 16-ZV1H 16-ZV3H Vehicle Log Page(s) 6 6 7 7 Zero Mile Book Page(s) Maint Logs & Engr Eval _ -

Continued on next page

17.11.00 Certification Review Sheet

E.O.# Page

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

Manufact	urer:	T	ΓΟΥΟ)TA		Ех	(haust '	Test Gr	oup:	GTYX	KV01	.8PC3		Evapo	orative	Family	r: <u>G</u> T	YXR0	130J72
							PROJECTED EMISSIONS												
	(grams/mile, except, grams/test for D+HS, and gr								rams/ga	allon fo	r ORV	R)(1)							
								(8-	<u>unio</u> , m		19.9.8			<u> </u>			POR		
															Whole		Whole		<u> </u>
Emission	E/C	T (MPC		NR (OC			2005	Hwy			Vehicle	;	Vehicle	;	a :.
Data Vehicle ID		Test Loc	Trans	ETW	RLH	City/ P Hwv	v/ v Mile	NMOG +NOx	i CO	PM	20°F CO	NMOG +NOx	City CO2	Hwy CO2	3-day D+HS ^{*1}	^I R/L	2-day D+HS ^{*1}	¹ ORVR	Canister Bleed ^{*4}
16-ZV3H	01	MFR			11.2	-/	·	N/A	N/A	N/A			-	-	N/A	N/A	N/A	N/A	N/A
(00)*3				00.0		-		N/A	N/A	N/A	N/A				N/A	N/A	N/A	N/A	N/A
(**) -								0.0198	0.15	0.0005					-	-	-	-	N/A
16-ZV1H	01	MFR	AV	3375	10.2	_/	50k	N/A	N/A	N/A	-	N/A	-	-	N/A	N/A	N/A	N/A	N/A
(00)*3						-	120k	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A
、 ,							150k	-	-	-	N/A	-			0.1316	0.000	0.1176	0.009	N/A
(1) The E	EDV(s)	above	compl	y with	standar	rds 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
						((@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
		Dete	rioratic	on Fact	ors(DF	s) 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
						((@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 (emissic	ons (w	/o DFs):	-	-										
					5	0°F st	andards:	0.060	1.0										
SFTP Te	est re	sults:	:																
Emission																			
Data Vehicle ID	E/G Code	Test	Trop	s ETW	י סוט	m	Mila	US06 CO2		PM		SC03 CO2		NMC	OG x-Comp	CO-C	lamn		
16-ZV3H	01	MFR			11.2		150k			0.0015		-		0.020	1	0.22	Joinp	_	
(00)*3	01	MLLY	AV	3313	11.2		1306			0.0015		-		0.020)0	0.22			
(1) The El	DV(s)	above	comply	with s	standar	ds of (@150k)	: N/A		0.010		N/A		0.030)	4.2		—	
. /	× ,		1 2			· · ·	@150k):			0.0002		N/A		0.005	53	0.07			
							- ·												
Remarks	2 *1.	· 1et D	BI is	added	kevo	off mc	mitor lo	vee (0.00	17oran	n)									
I Ciliui Ko										vere adop	ted to	EDV.							
				t patter			<u> </u>	Comper	101110	<u>vie uuop</u>									
	*4:	: Vehic	cles wi	rith a no	ion-inte					nly syster									
										SSION S			AND '	<u>TEST P</u>	ROCEI	DURES	FOR 20)01 ANI)
		<u>SUBS</u>	EQUE	NT M	ODEI	<u>_ MO</u>	TOR V	EHICL	ES PAF	RT I.E.1.	<u>(e)(i)(</u>	B)(4)							

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

17.11.00

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+NOx standard
- 17.14 Compliance with OBD-II Phase-in Requirements
- 17.15 Hybrid Electric Vehicle information (if applicable)

18. <u>Information on Service of Process</u>

Please refer to Section 1 of the FOI common file.