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: Andrea Frederick 734-995-2586

Note:

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Correspondence and Communications 1.

Please refer to the FOI common file.

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

Durability Group Name: GTYXHHGNNB26

Please refer to the common file for details.

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

Evaporative/Refueling Family Name : GTYXR0130J72

Please refer to the FOI common file for details.

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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.

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Test Group Description 5.

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 Summa	ry Info	rmation Report in Section 7.

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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

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7. Test Results Test group: GTYXV01.8PC3

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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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Date: 10/25/2016 06:37:32 AM Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling Family		GTYXR0130J72
Test Group Information				
CSI Type	Update for Correction	Running Change Reference Numl	ber	
GHG Exempt Status	Not Exempt	Ů Ů		
Drive Sources and Fuel(s)				
Drive Source #1:	Combustion Engine			
Fu	iel	Basic Fuel Metering System	Lean Burn Strateg	y Indicator
Gasc	oline	Multipoint/sequential fuel injection	No	
Drive Source #2:	Electric Motor			
Fu	uel	Basic Fuel Metering System	Lean Burn Strateg	v Indicator
Elect			No	
W 1 - 1 V 10 - 4	Xr.			
Hybrid Indicator	Yes			
Multiple Fuel Storage		Rechargeable Energy Storage Sys		Yes
Multiple Fuel Combustion		Off-board Charge Capable Indica	itor	No
Fuel Cell Indicator	No	EPA Vehicle Class		LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Stand	ard	
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions	Vehicle Indicator	Yes
Durability Group Name	GTYXHHGNNB26	Durability Group Equivalency Fa	ctor	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 Certif	icate?	
SFTP Federal Composite Compliance Identifier	Tier 2	SFTP Tier 2 Composite CO Optio	n	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 Defi	ciencies	0
OBD Deficiencies Comments				
Mfr Test Group Comments				
Mfr Exhaust / Evap Standards Comments				

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Test Group		GTYXV01.8PC3		Evaporative/Refueling	Family	GTYXR0130J	GTYXR0130J72	
Evaporative/Refueli	ng Family Inform	ation						
Evaporative Summary I	nformation Type	New		Submission/Correction	Date	09/24/2015 10	:48:36 PM	
Integrated ORVR?		No		Fuel(s)		Gasoline, Elec	tricity	
Multiple Fuel Storage		Fuels Stored Together						
Bladder Fuel Tank?		No						
Fuel Tank Material		Plastic		Fuel Tank Material De	scription	EVOH		
Fill Pipe Seal Type		Liquid seal						
Air Intake System Vapor	r Storage Device?	Yes		Air Intake System Vap	or Storage Device Descrip	tion Carbon filter in	n the air cleaner box	
Fuel System Vapor Stora	age Canister?	Yes		Other Vapor Storage				
Fuel System Vapor Stora Working Capacity (gran		130		Number of Primary Ca	nisters	1		
Number of Bleed Canist	ers	0		Bleed Canister Total W	orking Capacity (grams)			
Mfr Evaporative/Refueli	ing Family Comments	:						
Leak Family Details	\$							
Leak Family Indicator		No						
Canister Bleed Test Indi	cator	No		Applicability of Evapor	ative Canister Bleed Test			
Evaporative Canister Blo	eed Test Comments							
CARB Fuel Only (Rig) T	est Indicator	No		Applicability of CARB	Fuel Only (Rig) Test			
CARB Fuel Only (Rig) T	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	1			
Engine Block Arrangem	ent	Inline		Mfr Engine Block Arra	ngement Description			
Camless Valvetrain Indi	cator	No		Oil Viscosity/Classifica	tion	0W-20		
Number of Cylinders/Ro	otors	4						

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Certification Summary Information Report

Test Group		GTYXV	01.8PC3	Evaporative/Refueling Family				GTYXR0130J72		
After Treatmer	t Device(s) (A]	ΓD)								
ATD N	umber	ATD	Туре	ATD Preciou	ıs Metal	Substrat	e Material	S	ubstrate Cons	ruction
1		Three-wa	y catalyst	Paladium + R	thodium	Cer	amic	Monolith		ı
2		Three-wa	y catalyst	Platinum + R	hodium	Cer	amic	Monolith		
Mfr After Treatm Comments	ent Device (ATD)									
Direct Ozone Red	uction (DOR) Devi	i ce Not Equi	pped							
Mfr Emission Cor	trol Device Comm	ents								
Engine Configu	ration Number	r 1								
Engine Displaceme	ent (liters)	1.8		E	ngine Rated Horsepo	ower		96		
Number of Inlet V	alves Per Cylinder	2		N	umber of Exhaust Va	alves Per Cylin	der	2		
Air Aspiration Me	thod	Naturally	Aspirated	N	umber of Air Aspira	tion Devices				
Air Aspiration Dev	rice Configuration			C	harge Air Cooler Ty	pe		N/A		
Cylinder Deactivat	ion	No								
Cylinder Deactivat	ion Description									
Variable Valve Tir	ning	Yes								
Variable Valve Tir	ning System Descr	iption Intake								
Variable Valve Lif	t?	No								
Variable Valve Lif	t System Descripti	on								
Number of Knock	Sensors	1		N	umber of Air/Fuel So	ensors		2		
Air/Fuel Sensor#	l Туре	Heated ox	xygen	Ai	ir/Fuel Sensor # 1 De	escription				
Air/Fuel Sensor # 2	2 Type	Heated ai	r fuel	A	ir/Fuel Sensor # 2 De	escription				
Mfr Air/Fuel Sens	or Comments									
Exhaust Gas Recir	culation	Yes		C	ooled Exhaust Gas R	Recirculation		Yes		
EGR Type		Electronic	c/Electric	E	xhaust Gas Recircula	ation Description	on if 'Other'			
Closed Loop Air II	jection System	No				•				
Air Injection Type	•	Not Appl	icable	Ai	ir Injection Type if 'C	Other'				
Mfr Engine Config	guration Comment	s								
Official Test Nu	ımbers									
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 Weightin Factor
	GTYX10038745	GTYX10038746	GTYX10038740	GTYX10038684	GTYX10038747	187.9	284.3	999.9	628.9	ractor
	GTYX10038745	GTYX10038746	GTYX10038740	GTYX10038684	GTYX10038747	187.9	284.3	999.9	028.9	
Electricity	JIIA10030/43	O1 1 A10036 / 40	U11A10036/40	U11A10036084	U11A10036/4/					

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	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 Cel	l Information			
Rechargable Energy Storage System	Battery(s)	Rechargable Energy Stora	ige 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 Fara	ıds)	
Mfr Capacitor Comments				
Hydraulic System Description				
Regenerative Braking Type	Electrical Regen Brake			
Regenerative Braking Source	Front Wheels	Driver Controlled Regene	rative Braking	No
Mfr Regenerative Braking Description				
Drive Motor(s)/Generator(s)	1			
Motor/Generator Type 1	AC Induction	Rated Motor/Generator P	'ower	37
Mfr Fuel Cell Description				
Fuel Cell On-Board H2 Storage Capacity (kg)		Usable H2 Fill Capacity (I	(g)	
Mfr Hybrid Electric/ Electric Vehicle Comments				

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling Fa	Evaporative/Refueling Family		
Emission Data Vehicle Informati	o n				
Vehicle ID / Configuration	16-ZV1H / 0	Manufacturer Vehicle C	onfiguration Number	0	
Original Test Group Name	GTYXV01.8PC4	Original Evaporative/Re	•	GTYXR0130J72	
Original Test Vehicle Model Year	2016	Original Estaporatives to	ruening I mini,	G1 11110150072	
Vehicle Model	2010				
	TOYOTA	Downs gented Toot Vehicle	Madal	DDHIG	
Represented Test Vehicle Make	TOYOTA	Represented Test Vehicle	PRIUS		
Leak Family Details					
Leak Family Identifier		Leak Family Name			
Drive Sources and Fuel System D	etails				
Drive So	ource and Fuel#	Drive Source	Fuel		
	1	Electric Motor	Electricit	у	
	2	Combustion Engine	Gasoline	;	
Hybrid Indicator	Yes				
Multiple Fuel Storage		Multiple Fuel Combustio	n		
Fuel Cell Indicator	No	Rechargeable Energy Sto		Yes	
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Sto			
Off-board charge Capable Indicator	No	reconst genote Energy See	ruge system, it o mer		
Odometer Correction Initial	43	Odometer Correction Fa	ctor	1	
Odometer Correction Sign		est odometer reading - Initial system miles) *		1	
Odometer Correction Units	Miles	ost odemotor rottang innua system narosy	Correction factor		
Engine Code	01	Rated Horsepower		96	
Displacement (liters)	1.798	Rated Horsepower		, ,	
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, i	f 'Other'		
Number of Air Aspiration Devices		Air Aspiration Device Co			
Charge Air Cooler Type	N/A	Drive Mode While Testin	•	2-Wheel Drive, Fron	
Shift Indicator Light Usage	Not eqipped	Aged Emission Compone	•	4,000 (mi)	
SHILL THUICARDE LABIR UNARE	3080	Aged Emission Compone Equivalent Test Weight (3375	
0 0	5000	Equivalent Test weight (N/V Ratio	pounus)	20.1	
Curb Weight (lbs)		13/ V Katio		20.1	
Curb Weight (lbs) GVWR (lbs)	2 02				
Curb Weight (lbs) GVWR (lbs) Axle Ratio	2.83	# of Transmission Coars		1	
Curb Weight (lbs) GVWR (lbs)		# of Transmission Gears Creeper Gear		1 No	

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Certification Summary Information Report

Test Group	GTYXV01.8PC3		1.8PC3	Evaporative/Refueling Family		efueling Family	GTYXR0130J72
Dynamometer Co	efficients:						
	Tai	rget Coefficient	ts		Set Coefficients		
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph*	(2) A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
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 Dev	ice Comments						
Manufacturer Test Ve	hicle Comments	POWER	SHIFT PATTE	RN			
Test#		GTYX1	0037860		Test Procedu	re	27 - California fuel 2-day evap
Exhaust Test # for thi	s Evap Test	GTYX10	037853		Test Fuel Type		46 - CARB LEV3 E10 Regular Gasoline
Test Date		09/08/20	15		Fuel		Gasoline
Fuel Batch ID		WC5B05	i		Fuel Calibratio	on Number	1
Vehicle Class		N/A			DF Type		Mfr. Determined
Verify Test Lab ID		Higashift	iji Technical Ce	enter			
E10 Evaporative Test	Measurement Metl		otal Hydrocarbo nent (with spec				
Test Start Odometer l	Reading	4034			Odometer Unit	ts	M
4WD Test Dyno		No			Diesel Adjustn	ent Factor Usage	
State of Charge Delta							
Drive Cycle Speed Tolerance Criteria Used Part 1066 (+/- 2.6		t 1066 (+/- 2.0	0 mph, +/- 1.0 sec) Road Speed Fan Usage		n Usage	No	
Test Results							
	Test R	Result Name		Unrounded Test Result Verify			Calculated FE Equivalent Value (miles per gallon)
	HC-TOTAL-EQUIV (Total Hydrocarbon		rocarbon	0.117004			Pro Barrow)

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 - Eyan only)	0.1308488	

Manufacturer Test Comments

HSL=0.0223, 1ST DBL=0.1085, 2ND DBL=0.0875, 3RD DBL=0.0844, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0018GRAM)

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal LEV-II Evap	HC-TOTAL-EQUIV	0.131	0.000	0.13	0.50	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1308	0.000	0.131	0.300	Pass

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	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	НС	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

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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	· ·	
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0		

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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1

No

7. Test Results

Date: 10/25/2016 06:37:32 AM		Certification Summary Information Re	eport	
Test Group	GTYXV01.8PC3	Evaporative/Refueling Fa	amily	GTYXR0130J72
Emission Data Vehicle Information	n			
Vehicle ID / Configuration	16-ZV3H / 0	Manufacturer Vehicle Co	onfiguration Number	0
Original Test Group Name	GTYXV01.8PC3	Original Evaporative/Re	fueling 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 De	ot aile			
Drive Sou	irce and Fuel#	Drive Source	Fuel	
	1	Electric Motor	Electricity	
	2	Combustion Engine	Gasoline	;
Hybrid Indicator	Yes			
Multiple Fuel Storage		Multiple Fuel Combustio	n	
Fuel Cell Indicator	No	Rechargeable Energy Sto	rage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Sto	rage System, if 'Other'	
Off-board charge Capable Indicator	No			
Odometer Correction Initial	11	Odometer Correction Fa	ctor	1
Odometer Correction Sign	- = System Miles is equ	al 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, i	f 'Other'	
Number of Air Aspiration Devices		Air Aspiration Device Co	nfiguration	
Charge Air Cooler Type	N/A	Drive Mode While Testin	ıg	2-Wheel Drive, Fro
Shift Indicator Light Usage	Not eqipped	Aged Emission Compone	ents	4,000 (mi)
Curb Weight (lbs)	3075	Equivalent Test Weight (3375
GVWR (lbs)		N/V Ratio	•	20

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of Transmission Gears

Creeper Gear

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Axle Ratio

Transmission Type

Transmission Lockup

Issued: 10/01/2015 Corrected: 10/07/2016

2.83

No

Continuously Variable

Certification Summary Information Report

Test Group		GTYXV0	1.8PC3		Evaporative/R	efueling Family	GTYXR0130J72	
Dynamometer Coefficients:								
	•	Target Coefficien	ts		Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
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

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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 Metho	d		
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

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Corrected: 10/07/2016 Issued : 10/01/2015

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Cest 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		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

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Certification Summary Information Report

Test # GTYX10038745 Exhaust Test # for this Evap Test	Test Procedure	25 C PC + C 12 I
	Test Procedure	25 C PC
Exhaust Test # for this Evap Test		35 - California fuel 3-day exhaust
	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)		

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	

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GTYXV01.8PC3

NMOG+NOX

NMOG+NOX-COMP

NOX

0.0144

0.0200

0.0033

0.0003

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Test Group

Certification Summary Information Report

Evaporative/Refueling Family

GTYXR0130J72

0.020

0.020

0.004

0.000

0.030

999.999

0.003

Pass

Pass

Pass

Pass

1 cst Group			GI IA VVI.61 C5			Evaporati	verter dening 17	411111y		GIIMO	150372	
		Test Resul	t Name		Unroun	ıded Test Resul	t	Verify (Calculated CR	EE/OPT-CRE	E	
	Ca	arbon-Related Ex	haust Emissions			0			999			
		Test Resul			Unroun	ided Test Resul	t		Verify Calcula	ted CO2		
		Carbon d	ioxide			0						
Manufacture	r Test Commei	nts	NMOG = HC-NN	1 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	СО	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

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

1

1.10

1.03

0.0053

0.0006

0.0002

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CA

CA

CA

CA

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150,000 miles California LEV-III SULEV30

150,000 miles California LEV-

150,000 miles California LEV-

150,000 miles | California LEV-

III SULEV30

III SULEV30

III SULEV30

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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 Metho	od		
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

 $NMOG = HC-NM \times 1.03$

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Certification Summary Information Report

Test Group			GTYXV01.8PC3			Evaporati	ve/Refueling Fa	amily		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

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 Metho	od		
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	
IIC-TOTAL (Total Hydrocarbon)	0.0171269	

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

Manufacturer Test Comments

 $NMOG = HC-NM \times 1.03$

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Certification Summary Information Report

est Group			GTYXV01.8PC3			Evaporati	ve/Refueling Fa	amily		GTYXR01	130J72	
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/Fai
Fed	4,000 miles	Federal Tier 2 Bin 3	СО	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		PM	0.0013				0.0002		0.002	0.010	Pass
		111 20 21 1 1 2										

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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	l		
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
T I D			

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

							Diesel					
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	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	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	GTY	XV01.8PC3		Evaporat	tive/Refueling Fam	nily	GT	YXR0130J72	
			Consolida	ated List of Sta	andards				
Exhaust Standar	rds								
Cert Region Vehicle Class Fuel		ornia + CAA Sectior /Passenger Car line	n 177 states	Cert/In-U Standard Test Proc	l Level			h ifornia LEV-III SU ifornia fuel 3-day	
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	НСНО							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
	Feder LDV			Cert/In-U Standard			Bot Fed		
Cert Region Vehicle Class Fuel		Passenger Car		Cert/In-U Standard Test Proc	l Level		Fed	h leral Tier 2 Bin 3 ifornia fuel 3-day	exhaust
Vehicle Class	LDV	Passenger Car	RAF	Standard	l Level	Downward Diesel Adjustment Factor	Fed	leral Tier 2 Bin 3	exhaust Std
Vehicle Class Fuel	LDV. Gaso	Passenger Car line Rounded	RAF 	Standard Test Prod NMOG /	l Level cedure Upward Diesel Adjustment	Diesel Adjustment	Fed Cal	leral Tier 2 Bin 3 ifornia fuel 3-day	
Vehicle Class Fuel Useful Life	LDV. Gaso Emission Name	/Passenger Car line Rounded Result		Standard Test Prod NMOG / NMHC	l Level cedure Upward Diesel Adjustment Factor	Diesel Adjustment Factor	Fed Cal Mult DF	leral Tier 2 Bin 3 ifornia fuel 3-day Add DF	Std
Vehicle Class Fuel Useful Life 150,000 miles	LDV Gaso Emission Name CO	Passenger Car line Rounded Result		Standard Test Prod NMOG / NMHC	I Level cedure Upward Diesel Adjustment Factor	Diesel Adjustment Factor	Fed Cal Mult DF	leral Tier 2 Bin 3 ifornia fuel 3-day Add DF 0.07	Std 2.1 3.5
Vehicle Class Fuel Useful Life 150,000 miles 150,000 miles	LDV Gaso Emission Name CO CO-COMP	Passenger Car line Rounded Result		Standard Test Prod NMOG / NMHC	Upward Diesel Adjustment Factor	Diesel Adjustment Factor 	Fed Cal	Add DF 0.07	Std 2.1 3.5
Vehicle Class Fuel Useful Life 150,000 miles 150,000 miles 150,000 miles	LDV Gaso Emission Name CO CO-COMP CREE	Passenger Car line Rounded Result	 	Standard Test Prod NMOG / NMHC	Upward Diesel Adjustment Factor	Diesel Adjustment Factor 	Fed Cal Mult DF 	Add DF 0.07 0.075	Std 2.1 3.5 999.9999
Useful Life 150,000 miles 150,000 miles 150,000 miles 150,000 miles	LDV Gaso Emission Name CO CO-COMP CREE HC-NM+NOX-COMP	Passenger Car line Rounded Result	 	Standard Test Prod NMOG / NMHC	Upward Diesel Adjustment Factor	Diesel Adjustment Factor 	Fed Cal	Add DF 0.07 0.075	Std 2.1 3.5 999.9999 0.62
Useful Life 150,000 miles 150,000 miles 150,000 miles 150,000 miles 150,000 miles 150,000 miles	Emission Name CO CO-COMP CREE HC-NM+NOX-COMP HCHO	Passenger Car line Rounded Result	 	Standard Test Prod NMOG / NMHC	Upward Diesel Adjustment Factor	Diesel Adjustment Factor 	Fed Cal	Add DF 0.07 0.075 0.0000	Std 2.1 3.5 999.9999 0.62 0.011
Useful Life 150,000 miles	Emission Name CO CO-COMP CREE HC-NM+NOX-COMP HCHO METHANE N2O NMOG	Passenger Car line Rounded Result	 	Standard Test Prod NMOG / NMHC	Upward Diesel Adjustment Factor	Diesel Adjustment Factor	Fed Cal	Add DF 0.07 0.075 0.0000 0.0010	Std 2.1 3.5 999.9999 0.62 0.011 0.030
Useful Life 150,000 miles	Emission Name CO CO-COMP CREE HC-NM+NOX-COMP HCHO METHANE N2O	Passenger Car line Rounded Result	 	NMOG / NMHC	Upward Diesel Adjustment Factor	Diesel Adjustment Factor	Mult DF	Add DF 0.07 0.075 0.0000 0.0010	Std 2.1 3.5 999.9999 0.62 0.011 0.030 0.010

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Certification Summary Information Report

Test Group	GT	YXV01.8PC3		Evaporat	tive/Refueling Fam	nily	GT	YXR0130J72			
Cert Region Vehicle Class Fuel	LD	California + CAA Section 177 states LDV/Passenger Car Gasoline			Cert/In-Use Code Standard Level Test Procedure			Both California LEV-III SULEV30 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	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		
Cert Region Vehicle Class Fuel	LD	fornia + CAA Section V/Passenger Car oline	n 177 states	Cert/In-U Standard Test Proc	l Level		Bot Cali HW	ifornia LEV-III SU	ULEV30		
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 150,000 miles	NMOG NMOG+NOX		1	1.03				0.0047 0.0053	999.999 0.030		
			1								
150,000 miles 150,000 miles Cert Region	NMOG+NOX NOX		1	1.03	 Jse Code		 Bot	0.0053 0.0006	0.030		
150,000 miles	NMOG+NOX NOX Fed LD	 eral	1	1.03 Cert/In-U	 Jse Code I Level		 Bot	0.0053 0.0006 h eral Tier 2 Bin 3	0.030		
150,000 miles 150,000 miles Cert Region Vehicle Class	NMOG+NOX NOX Fed LD	eral	1	1.03 Cert/In-U	 Jse Code I Level		 Bot Fed	0.0053 0.0006 h eral Tier 2 Bin 3	0.030		
150,000 miles 150,000 miles Cert Region Vehicle Class	NMOG+NOX NOX Fed LD Gas	eral V/Passenger Car oline Rounded	1	1.03 Cert/In-U Standard Test Prod	Jse Code I Level cedure Upward Diesel Adjustment	 Downward Diesel Adjustment	 Bot Fed HW	0.0053 0.0006 h eral Tier 2 Bin 3	0.030 999.999		

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Test Group	GTYXV01.8PC3 Evaporative/Refueling Fami				nily GTYXR0130J72				
Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Both		
ehicle Class	LDV/Passenger Car			Standard Level			California LEV-III SULEV30		
uel	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
15 0,000 1111105	1.112					l		0.0002	0.010
Cert Region	Fed	Federal Cert/In-Use Code					Boti	h	
/ehicle Class	LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 3		
`uel	Gas	oline	Test Procedure				CST two speed idle test		
Y. 6 1 1 16	Rounded NMOG / Ådjust			Upward Diesel Adjustment	Downward Diesel Adjustment	Molt DE Add DE Std			
Useful Life	Emission Name	Result	RAF	NMHC	Factor	Factor	Mult DF	Add DF	Std
120,000 miles 120,000 miles	CO HC-TOTAL								0.5 100
Cert Region	California + CAA Section 177 states LDV/Passenger Car			Cert/In-l	Use Code Both d Level California LEV-III SULEV3(
Vehicle Class	LD	V/Passenger Car		Standard	l Level		Cali	ifornia LEV-III SU	LEV30
		V/Passenger Car oline Rounded Result	RAF	Standare Test Pro NMOG / NMHC		Downward Diesel Adjustment Factor		ifornia LEV-III SU d CO Add DF	LEV30
Fuel	Gas	oline Rounded	RAF 	Test Pro	cedure Upward Diesel Adjustment	Diesel	Col	d CO	
	Gas Emission Name CO Fed LD	Rounded Result	RAF 	Test Pro NMOG / NMHC	Upward Diesel Adjustment Factor Use Code	Diesel Adjustment Factor 	Mult DF Boti	Add DF 0.02	Std
Useful Life 50,000 miles Cert Region Vehicle Class	Gas Emission Name CO Fed LD	Rounded Result eral	RAF	NMOG / NMHC Cert/In-U	Upward Diesel Adjustment Factor Use Code	Diesel Adjustment Factor	Mult DF Boti	Add DF 0.02 h eral Tier 2 Bin 3	Std
Useful Life 50,000 miles Cert Region Vehicle Class	Emission Name CO Fed LD Gas	Rounded Result eral V/Passenger Car oline Rounded		NMOG / NMHC Cert/In-I Standard Test Pro	Upward Diesel Adjustment Factor Use Code I Level cedure Upward Diesel Adjustment	Diesel Adjustment Factor Downward Diesel Adjustment	Mult DF Bot: Fed Col.	Add DF 0.02 h eral Tier 2 Bin 3	Std 10.0

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Date: 10/25/2016 06:37:33 AM	Certification Summary Information Report

Test Group	GTYXV01.8PC3 Evaporative/Refueling Family					nily	GTYXR0130J72			
Cert Region	Federal			Cert/In-Use Code				Both		
Vehicle Class	LDV/Passenger Car			Standard	Level		Fed	leral Tier 2 Bin 3		
Fuel	Gasolin	_		Test Procedure			SC03			
II 61176	E · · · · · · ·	Rounded	D.F.	NMOG /	Upward Diesel Adjustment	Downward Diesel Adjustment	MADE	ALIDE	64.1	
Useful Life	Emission Name	Result	RAF	NMHC	Factor	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-U	se Code		Bot	h		
Vehicle Class	LDV/Pa	assenger Car	Standard Level			Federal Tier 2 Bin 3				
Fuel	Gasolin	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 Fam	GTYXI	R0130J72		Cert Regi				ifornia + CAA Sec ifornia LEV-III Ze		
Evaporative/Refueling Fam Cert/In-Use Code Test Procedure	Both CA fue	R0130J72 1 3-day evap.	Emissis Name	Standard	Level		Cali 2)	ifornia LEV-III Ze	ro Evap (Opti	
Evaporative/Refueling Fam Cert/In-Use Code Test Procedure Fuel	Both CA fue Useful Life	13-day evap.	Emission Name	Standard	Level		Cali 2)	ifornia LEV-III Ze:	ro Evap (Opti d DF	
Evaporative/Refueling Fam Cert/In-Use Code Test Procedure	Both CA fue	13-day evap.	Emission Name C-TOTAL-EQUIV	Standard	Level		Cali 2)	ifornia LEV-III Ze:	ro Evap (Opti	
Evaporative/Refueling Fam Cert/In-Use Code Test Procedure Fuel Gasoline	Both CA fue Useful Life 150,000 miles	13-day evap.		Standard Re	Level ounded Result		Cali 2)	ifornia LEV-III Ze: Add	ro Evap (Opti d DF	
Evaporative/Refueling Fam Cert/In-Use Code Test Procedure Fuel Gasoline Evaporative/Refueling Fam	Both CA fue Useful Life 150,000 miles	1 3-day evap.		Standard	Level ounded Result		Cal: 2) Std 0.300 Fed	ifornia LEV-III Ze: Add	ro Evap (Opt d DF	
	Both CA fue Useful Life 150,000 miles ally GTYXI Both	1 3-day evap.	C-TOTAL-EQUIV	Standard Ro Cert Regi	Level ounded Result		Cal: 2) Std 0.300 Fed	ifornia LEV-III Ze: Add 0.	ro Evap (Opt d DF	
Evaporative/Refueling Fam Cert/In-Use Code Test Procedure Fuel Gasoline Evaporative/Refueling Fam Cert/In-Use Code	Both CA fue Useful Life 150,000 miles ally GTYXI Both	1 3-day evap. H R0130J72	C-TOTAL-EQUIV	Standard Re Cert Reg Standard	Level ounded Result		Cal: 2) Std 0.300 Fed	Add 0.4	ro Evap (Opti d DF	

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Date: 10/25/2016 06:37:33 AM		Certification Su	ımmary Information Report				
Test Group	GTYXV01.8PC	3	GTYXR0130J72				
Evaporative/Refueling Family	GTYXR0130J7	2	Cert Region		lifornia + CAA Section 177 states lifornia LEV-III Zero Evap (Option		
Cert/In-Use Code	Both		Standard Level	2)			
Test Procedure	California Fuel Running Loss						
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV		0.05	0.000		
Evaporative/Refueling Family	GTYXR0130J7	6			lifornia + CAA Section 177 states		
Cert/In-Use Code	Both		Standard Level	Cai	California LEV-III Zero Evap (Option		
Test Procedure		ueling test (ORVR)	Similar is Deve	<i>2)</i>			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC		0.20	0.000		
Evaporative/Refueling Family Cert/In-Use Code Test Procedure	GTYXR0130J7 Both Federal fuel refu	2 neling test (ORVR)	Cert Region Standard Level		deral deral LEV-II Evap		
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	120,000 miles	HC		0.20	0.000		
Evaporative/Refueling Family	GTYXR0130J7	2	Cert Region	California + CAA Section 177 state			
Cert/In-Use Code	Both		Standard Level	Ca 2)	California LEV-III Zero Evap (Option 2)		
Test Procedure	California fuel 2-day evap		Stallour & Devel	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	GTYXR0130J7	2	Cert Region	Fe	deral		
Cert/In-Use Code	Both	-	Standard Level	rederal Federal LEV-II Evap			
Test Procedure	California Fuel	Running Loss			ī		
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		

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0.05

0.000

HC-TOTAL-EQUIV

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Gasoline

120,000 miles

Issued : 10/07/2016

Certification Summary Information Report

		Evaporative/Refueling Family		GTYXR0130J72	
GTYXR0130J72		Cert Region	Feder	ral	
Both		Standard Level	Feder	Federal LEV-II Evap	
Spitback					
Useful Life	Emission Name	Rounded Result	Std	Add DF	
120,000 miles	SPITBACK		1.0	0.000	
CHANTONIO		G (P)			
		· ·			
Both	Standard Level		Federal LEV-II Evap		
CA fuel 3-day eva	p.				
Useful Life	Emission Name	Rounded Result	Std	Add DF	
120,000 miles	HC-TOTAL-EQUIV		0.50	0.000	
	Spitback Useful Life 120,000 miles GTYXR0130J72 Both CA fuel 3-day eva	Spitback Useful Life Emission Name 120,000 miles SPITBACK GTYXR0130J72 Both CA fuel 3-day evap. Useful Life Emission Name	Both Spitback Useful Life Emission Name Rounded Result 120,000 miles SPITBACK GTYXR0130J72 Cert Region Both Standard Level CA fuel 3-day evap. Useful Life Emission Name Rounded Result	Both Standard Level Feder Spitback Useful Life Emission Name Rounded Result Std 120,000 miles SPITBACK 1.0 GTYXR0130J72 Cert Region Feder Both Standard Level Feder CA fuel 3-day evap. Useful Life Emission Name Rounded Result Std	

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Issued : 10/07/2016

7. Test Results

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

Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refueling	g Family GTYXR0130J72
·	Gl	ossary	
J seful Life			
1	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
НСНО	Formaldehyde	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
Н3С2НО	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 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
B5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150

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7. Test Results

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

Certification Summary Information Report

Test Group	Group GTYXV01.8PC3		ling Family	GTYXR0130J72	
В6	Federal Tier 2 Bin 6	L3LEV630	California LEV-III I	LEV630	
В7	Federal Tier 2 Bin 7	L3ULEV570	California LEV-III I	ULEV570	
В8	Federal Tier 2 Bin 8	L3ULEV400	California LEV-III I	ULEV400	
В9	Federal Tier 2 Bin 9	L3ULEV270	California LEV-III I	ULEV270	
B10	Federal Tier 2 Bin 10	L3SULEV230	California LEV-III S	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 1	60	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	T3B125	Federal Tier 3 Bin 1	125	
L2	California LEV-II LEV	T3B110	Federal Tier 3 Trans	sitional Bin 110	
L2OP	California LEV-II LEV Optional	T3B85	Federal Tier 3 Trans	sitional Bin 85	
U2	California LEV-II ULEV	T3SULEV30	Federal Tier 3 Trans	sitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV	T3B70	Federal Tier 3 Bin 7	70	
ZEV	California ZEV	T3B50	Federal Tier 3 Bin 5	50	
OT	Other	T3B30	Federal Tier 3 Bin 3	30	
T1	Federal Tier 1	T3B20	Federal Tier 3 Bin 2	20	
PZEV	California PZEV	T3B0	Federal Tier 3 Bin 0)	
L2LEV160	California LEV-II LEV160	HDV2B395	Federal Tier 3 HD C	Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125	HDV2B340	Federal Tier 3 HD C	Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30	HDV2B250	Federal Tier 3 HD C	Class 2b Bin 250	
L2LEV395	California LEV-II LEV395	HDV2B200	Federal Tier 3 HD C	Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340	HDV2B170	Federal Tier 3 HD C	Class 2b Bin 170	
L2LEV630	California LEV-II LEV630	HDV2B150	Federal Tier 3 HD C	Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570	HDV2B0	Federal Tier 3 HD C	Class 2b Bin 0	
L3LEV160	California LEV-III LEV160	HDV3B630	Federal Tier 3 HD C	Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125	HDV3B570	Federal Tier 3 HD C	Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70	HDV3B400	Federal Tier 3 HD C	Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50	HDV3B270	Federal Tier 3 HD C	Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30	HDV3B230	Federal Tier 3 HD C	Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20	HDV3B200	Federal Tier 3 HD C	Class 3 Bin 200	
L3LEV395	California LEV-III LEV395	HDV3B0	Federal Tier 3 HD 0	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 Continuo	ously Variable (e.g. CVT with paddles)	
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel I	Drive	
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

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7. Test Results Test group: GTYXV01.8PC3

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Certification Summary Information Report

Test Group	GTYXV01.8PC3	Evaporative/Refu	ueling Family	GTYXR0130J72
Additional Terr	ms and Acronyms			
AFC	Alternative Fuel Converter	ICI	Independent Com	mercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling	g Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Lig	ght
Evap	Evaporation, Evaporative	Trans	Transmission	

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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)

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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.

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10. <u>Description of Alternate-fueled Vehicles</u>

Please refer to the FOI common file.

Page: 10-GTYXV01.8PC3-1

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

Please refer to the CBI common file.

Page: 11-GTYXV01.8PC3-1

12. <u>Description of Vehicles Covered by Certificate</u>

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)
PRIUS	ТОУОТА	ZVW50L-AHXEBA	01	4	1.798	50	P610 (AV-3) / N/A	N/A	195/65R15 SM#2	20.0	3375	43
PKIUS	PRIUS TWO	2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	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

12.2 Test Parameters

Please refer to the FOI common file.

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^{*2:} The number after "-" indicates the number of transmission mode.

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

Please refer to the CBI common file.

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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:

Federal: Tier1 Interim	Non-Tier2	low-altitude	high altitud	de 	Bin No
Tier2		X	X		3
California:	LEVI: LEV LEVII: LEV SULEV LEVIII: LEV1 ULEV70 SULEV30(AT		ULEV ULEV PZEV 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.

Kevin Webber General Manager

Toyota Technical Center U.S.A. Inc.

Kur D. Webber

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15. Other Information

15.1 Fee filing form

© EPA	U.S. Environmental Protection Motor Vehicle and Engine Complete On-Highway Fee Filing For Certification Applications Received I	liance Program Form
Manufacturer Na	me Toyota Motor Engineering & Mfg. NA, Inc. (TE	EMA) - TTC
Address 1555 Woo		
	Code/Country Ann Arbor, MI 48105 (USA)	
	On-Highway Certification Request	Type (check one)
X LDV/LDT/MD	PV/HDV (Chassis cert) FEDERAL (\$26,741)	Control of the Contro
☐ LDV/LDT/MD	PV/HDV (Chassis cert) CAL-ONLY (\$14,193)	HDE CALIF-ONLY (\$563)
_	e Dyno cert) FEDERAL (\$47,664)	☐ MOTORCYCLE (\$1,852)
, , ₂	e plus core, rapacam (fr., eve.)	
		☐ LD/MDPV/HDV ICI (\$76,399)
EPA standard fami	ly 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 n	umber, or the statement "WIRE" or "ACH":	"WIRE"
Aggregate retail :	sales price of the vehicles/units: \$	<pre>catal number of vehicles/units covered:</pre>
		17. 6. 13 hav
Company Represent	ative: Kevin D. Webber	Signature: Www.
	- VRCE Dept. Phone/Fax: 734/995-7132	/ 734/995-9049 Date: 02/12/2015
Submission of pays (1) Online: Forms	<pre>rtifications@tema.toyota.com ments and forms: may be found and submitted with or witho check payments only, send checks and this</pre>	
	Environmental Protection Motor Vehicle and Engine Comp P.O. Box 979032 St. Louis, MO 63197-	liance Program
<pre>(4) Transmit off1: (5) Forms not subr Forms and payment:</pre>	ine <u>Wire</u> payments to the <u>New York Federal</u> ine <u>ACH</u> payments to the <u>Federal Reserve E</u> mitted under (1) and (2) above can be sens sent in ways other than the above may be sending checks and forms by private mail	Bank of Cleveland. (Instructions, p.2) of as email attachments to Fees@epa.gov. oe delayed or ineffective. See the
comments on EPA's ne respondent burden, inclu Environmental Protection	d recordkeeping burden for this collection of information and for this information, the accuracy of the provided burduding through the use of automated collection technique in Agency (2822T), 1200 Pennsylvania Ave., N.W., Washing send the completed Form 3520-29 to this address.	den estimate, and any suggested methods for minimizing es, to the Director, Collection Strategies Division, U.S.
This for	m approved under OMB control number 2060-0545 until October 3	11 2016 EDA Form 3520 20 (montred to 2012)

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

Please refer to the CBI common file.

Page : 15-GTYXV01.8PC3-2

16. <u>Confidential Information</u>

Please refer to the CBI common file.

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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)

Please refer to the FOI common file.

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

Manufacturer: <u>TOYOTA</u>	Exh Test Group: GTYX	V01.8PC3 Evap	Fam: <u>GTYXR0130J72</u>
All Eng Codes in Eng Fam: CA	49S 50S <u>x</u>	AB965,	ORVR: YES x NO _
Exh Std: CA LEVII: LEV	ULEV	SULEV _ US E	PA Interim Non-Tier2
LEVIII: LEV	160 ULEV125	ULEV70	Tier2 x
ULE	V50 SULEV30	SULEV20 _ SULEV	30 (AT PZEV) <u>x</u>
Evap Std: LEVII LEVI	I Zero-Evap LEVIII (0	Option 1) LEVIII (Option 2) <u>x</u>
Veh Class(es): PC x LDT1	_ LDT2 _ MDV1	MDV2 MDV3	MDV4 MDV5
Single Cert Std for Multi-Class Er	ng Fam: <u>N/A</u> (sp	ecify: N/A, LDT1, MDV1,	MDV2, MDV3, MDV4)
Fuel Type(s): Dedicated <u>x</u>	Flex-Fuel D	oual-Fuel Bi-Fuel	Gasoline x Diesel
CNG	LNG LPG	M85 Other (sp	pecify)
Exh Emiss Test Fuel(s): Indo	_ CBG <u>x</u> CNG	LPG M85	Other (specify)
Diese	el: 13 CCR 2282	40 CFR 86.113-90	40 CFR 86.113-94
Evaporative Emission Test Proced	ure: California <u>x</u>	Federal	
Service Accum: Std AMA	Mod AMA	Mfr ADP \underline{x} Ot	her (specify)
NMOG Test Procedure: N/A	Std Equiv	x R/L Test Proc:	SHED Pt Source _x
Engine Configuration: <u>I-4</u>	Displacement:	1.8 Liters	109.7 Cubic Inches
Valves per Cylinder: 4		Rated HP1: 96@5,20	00 RPM
Engine: Front x Mid _	Rear Drive: FW	/D <u>x</u> RWD <u>4W</u>	/D-FT 4WD-PT
Exhaust ECS (e.g., MFI, EGR, TC	C, CAC): SFI,EGR	,EGRC,WR-HO2S,TWC(2),HO2S
		eviations per SAE J1930 JL	

Engine				
Code		Trans.	ETW	
(also list		(M5,	or	
CA/49S/	Vehicle Models	A4,	Test	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

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J.#			
	Dage	 	

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

Manufacturer: <u>TOYOTA</u>	Exh Test Group:	GTYXV01	1.8PC3	Evap Fam: GTYXR	.0130J72
All Eng Codes in Eng Fam: CA					
Exh Std: CA LEVII: LEV				US EPA Interim Non-	
	60 ULEV125		EV70	Tier2 x	
			LEV20	SULEV30 (AT PZEV)	X
Evap Std: LEVII LEVII					
Veh Class(es): $PC \times \overline{x}$ LDT1					
Single Cert Std for Multi-Class Eng	Fam: N/A	(specif	fy: N/A, LDT1	I, MDV1, MDV2, MDV3,	MDV4)
Fuel Type(s): Dedicated <u>x</u>	Flex-Fuel	Dual	-Fuel I	Bi-Fuel Gasoline x	Diesel
CNG	LNG LP	G	M85	Other (specify)	<u> </u>
Exh Emiss Test Fuel(s): Indo	CBG x	CNG	LPG	Other (specify) M85 Other (specif	<u> </u>
Diesel	: 13 CCR 228	32	40 CFR 86.	113-90 40 CFF	R 86.113-94
Evaporative Emission Test Procedu				<u>—</u>	
				x Other (specify)	
				Test Proc: SHED	
Engine Configuration: <u>I-4</u>					
Valves per Cylinder: 4				: 96@5,200	
· · ·	Rear Driv	ve: FWD			WD-PT
Exhaust ECS (e.g., MFI, EGR, TC,					
(8, , , , ,	, <u> </u>	use abbrevia	ations per SAI	E J1930 JUN93)	
	`		1	,	
Castian #			Castian #		
Section #	EOI 1.2		<u>Section #</u> Con std_inar	rease in Emiss,	
Authorized Representative Fuel Specifications	FOI-1.2		Safety, Meet		FOI-8
Test Equipment			Driveability	-	FOI-17.1
Test Procedure	-		Adjustable P		
Mileage Accumulation Route	CBI-4			stance Method(s)	<u>-</u>
Emission Warranty Statement	Part2 FOI-6.00.		Fill Pipe Spe	* *	FOI-17.3
Maint: Cert/Req'd/Recm'd	-			e Compliance	FOI-17.2
Emiss Label/Vac Hose Diag	-		-	el Marked Revisions	CBI-9.1
Evap Control System	FOI-3		•	Procedure & Data	
Engine Parameters	5	30		Compliance	-
Fuel System	-		Manufacture		-
Ignition System	-		Phase-In Pla		CBI-17
Exhaust Control System	FOI-5	33	NMOG+NO	x Fleet Average	
Proj Sales(LDT/MDV Split)	CBI-17.1		Calculation		CBI-17.13
Vehicle Description	12.1	34	AB965 Cred	its/Withdrawals	-
Evap Bench Test Procedure	-	35	EPA Certific	eate	to follow
R/L Temp & Press Profiles	FOI-4.3	36	Equiv NMO	G Proc-ARB Approval	NMOG/NMHC=
EDV Selection	_				FTP=1.10, SFTP&HWY=1.03
Prod Veh same as Test Veh	FOI-17.1				
Emission Label Durability	_				
Dural		Emission		Emission	Emission
Test Vehicle Information Data	Vehicle	Data	Vehicle	Data Vehicle	Data Vehicle
C/O or C/A MY ID Vehicle Log Page(s)	16B-ZV1H	6	16-ZV1H	6 16-ZV3H	· ——
Vehicle Log Page(s) - Zero Mile Book Page(s) -		7		7	
Maint Logs & Engr Eval -				-	
Triumit Logo & Liigi Lvai				-	

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

Manufacturer:		TOYOTA			_	Exh	naust [Γest Gr	est Group:		GTYXV01.8PC3				orative	: <u>G</u> T	GTYXR0130J72		
											P R	ОЈЕС	СТЕІ) E I	MISS	ION	S		
						(grams/mile, except, grams/test for D+HS, and grams/gallon for OI											R) (1)		
																EVĀ	POR	ΑTΙ	V E
Emission Data	E/G	Test			D	MPG City/	V 671	NMOG	00	D) (Hwy NMOG		Hwy	Whole Vehicle 3-day		Whole Vehicle 2-day		Canister
Vehicle ID				ETW				+NOx	CO	PM	CO	+NOx	CO2		D+HS*1				Bleed*4
16-ZV3H	01	MFR	AV	3375	11.2	-/		N/A	N/A	N/A	1.14		-	-	N/A	N/A	N/A	N/A	N/A
(00)*3						-		N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A
16-ZV1H	01	MFR	A 3.7	3375	10.2	-/	50k	0.0198 N/A	0.15 N/A	0.0005 N/A	N/A	0.0058 N/A			N/A	- N/A	- N/A	- N/A	N/A N/A
(00)*3	01	MIFK	AV	33/3	10.2	-/	120k		N/A	N/A	- N/A		-	-	N/A	N/A	N/A	N/A	N/A N/A
(00) 3						-	150k		-	-		- IN/A			0.1308	0.000	0.1170	0.009	N/A
(1) The E	FDV(s)	ahove	comply	v with s	standar	ds of ((N/A	N/A	10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(1) 1110 1	2D ((5)	acore	compri	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Juniaun		120k):		N/A	N/A		N/A	N/A		N/A	N/A	N/A	N/A	N/A
							150k):		1.0	0.003		0.030	N/A		0.300	0.05	0.300	0.20	N/A
		Deter	rioratio	n Facto	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
						(@	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 e	missic	ons (w/o	DFs):	-	-										
					5	0°F star	ndards:	0.060	1.0										
SFTP Te	est res	sults:																	
Emission Data Vehicle ID	E/G Code	Test Loc	Trans	ETW	RLH	Р	Mile	US06 CO2		PM		SC03 CO2		NM(+NO	OG x-Comp	CO-C	'omn		
16-ZV3H	01	MFR			11.2		150k			0.0015		-		0.020		0.22	отпр	_	
(00)*3	0.1	.,		5575			1001			0.0010				0.02		0.22			
(1) The El	DV(s)	above o	comply	with st	tandard	ls of (@150k):		N/A		0.010		N/A		0.030		4.2			
		Deteri	ioration	1 Facto	rs(DFs	s) of (@	150k):	N/A		0.0002		N/A		0.005	53	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))								
		SUBSI	EQUE.	NT M	ODEI	_ MOT	OR V	EHICLI	ES PAR	KT I.E.1.	(e)(1)(B)(4)							
Application Processes						Date				D		d by:				г	ate:		
11000386																			

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Issued : 10/01/2015 Corrected: 07/01/2016, 10/07/2016

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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.

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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)

Please refer to the CBI common file.

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

Please refer to Section 1 of the FOI common file.

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