

Certification Summary Information Report

Manufacturer	Subaru Corporation	Manufacturer Code	FJX
Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Certificate Number	VFJXJ02.5VDH-003	CARB Executive Order #	--
Certificate Issue Date	06/25/2026	Certificate Revision Date	--
Certificate Effective Date	06/25/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	05/26/2026 09:10:54 PM
Model Year	2027		

Test Group Information

CSI Type	New	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition Direct fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT2, LDT1, LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VFJXGPGNNHR	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	09/21/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VFJXV02.4AJM
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	We received the concern of the voltage sensor rationality monitoring.		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	05/26/2026 08:53:34 PM
Integrated ORVR?	Yes	Fuel(s)	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE/EVOH multi layer
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	HC Trap
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	No
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	154	Number of Primary Canisters	1
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--
Mfr Evaporative/Refueling Family Comments	--		
Leak Family Details			
Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--
CARB Fuel Only (Rig) Test Comments	--		
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VFJXR01545GE-5GE	50 State	0.02	--

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Test Group	VFJXJ02.5VDH			Evaporative/Refueling Family		VFJXR01545GE	
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Subaru Corporation	1 - Subaru	130 - CROSSTREK WILDERNESS AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	120 - FORESTER WILDERNESS AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	70 - OUTBACK AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	35 - CROSSTREK AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	120 - FORESTER WILDERNESS AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	95 - FORESTER AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	95 - FORESTER AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	35 - CROSSTREK AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	55 - IMPREZA	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	55 - IMPREZA	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	95 - FORESTER AWD	Federal	All Wheel Drive	Continuously Variable	1	Yes
Subaru Corporation	1 - Subaru	70 - OUTBACK AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	130 - CROSSTREK WILDERNESS AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Subaru Corporation	1 - Subaru	95 - FORESTER AWD	California + CAA Section 177 states	All Wheel Drive	Continuously Variable	1	Yes

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Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE	
Engine Description				
Hybrid Type	--	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--	
Engine Block Arrangement	Horizontally Opposed	Mfr Engine Block Arrangement Description	--	
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	ILSAC GF-7B 0W-16	
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	N	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
--				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
--				
Engine Configuration Number 1				
Engine Displacement (liters)	2.5	Engine Rated Horsepower	180	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	--	
Air Aspiration Device Configuration	--	Charge Air Cooler Type	--	
Air Aspiration Drive Method(s)	--			
Cylinder Deactivation	No			
Cylinder Deactivation Description	--			
Variable Valve Timing	Yes			
Variable Valve Timing System Description	Intake and Exhaust			
Variable Valve Lift?	No			
Variable Valve Lift System Description	--			
Number of Knock Sensors	2	Number of Air/Fuel Sensors	2	
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes	
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--	
Closed Loop Air Injection System	No			
Air Injection Type	--	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	--			

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Test Group		VFJXJ02.5VDH				Evaporative/Refueling Family		VFJXR01545GE		
Official Test Numbers										
Test Group						EPA City	EPA City	EPA	EPA	CREE
Fuel	FTP	US06	SC03	Cold CO	Highway	Litmus	Litmus	Highway	Highway	Weighting
						Value	Threshold	Litmus	Litmus	Factor
								Value	Threshold	
Gasoline	TFJX10089691	TFJX10089689	TFJX10089693	TFJX10089692	TFJX10089690	19.7	228.2	32.6	286.1	--

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Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	Correction of N/V ratio.		

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	JFJX10045961	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/18/2016	Fuel	N/A
Fuel Batch ID	UBACS1	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	1100, Toyoshirochou		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4289	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	294.400959	--
FE BAG 1 (Bag 1 Fuel Economy)	29.387347	29.387347
CO2 BAG 2 (Bag 2 Carbon Dioxide)	271.424596	--
FE BAG 2 (Bag 2 Fuel Economy)	31.940997	31.940997
CO2 BAG 3 (Bag 3 Carbon Dioxide)	255.054239	--
FE BAG 3 (Bag 3 Fuel Economy)	33.980929	33.980929
METHANE (CH4 - Methane)	0.001694	--
CO (Carbon Monoxide)	0.153752	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.77	--
DT-EER (Drive Trace Energy Economy Rating)	1.52	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.9	--
MFR FE (Manufacturer Fuel Economy)	31.856905	31.856905
NOX (Nitrogen Oxide)	0.010067	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.003995	--
NMOG (Non-methane organic gases)	0.004394	--
HC-TOTAL (Total Hydrocarbon)	0.005492	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Optional Carbon-Related Exhaust Emissions	272.290238	999

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Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	JFJX10045963	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/11/2016	Fuel	N/A
Fuel Batch ID	UBACS1	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	1100, Toyoshirochou		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4254	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	291.107319	--
FE BAG 1 (Bag 1 Fuel Economy)	29.726698	29.726698
CO2 BAG 2 (Bag 2 Carbon Dioxide)	254.368301	--
FE BAG 2 (Bag 2 Fuel Economy)	34.079405	34.079405
CO2 BAG 3 (Bag 3 Carbon Dioxide)	244.522106	--
FE BAG 3 (Bag 3 Fuel Economy)	35.451755	35.451755
METHANE (CH4 - Methane)	0.001969	--
CO (Carbon Monoxide)	0.139716	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.23	--
DT-EER (Drive Trace Energy Economy Rating)	1.43	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.03	--
MFR FE (Manufacturer Fuel Economy)	33.456333	33.456333
NOX (Nitrogen Oxide)	0.010093	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.003721	--
NMOG (Non-methane organic gases)	0.004093	--
HC-TOTAL (Total Hydrocarbon)	0.005566	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Optional Carbon-Related Exhaust Emissions	259.281121	999

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
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	Test Result Name	Unrounded Test Result		Verify Calculated CO2
	Carbon dioxide	259.275537		--

Manufacturer Test Comments 3-day Evap. FTP

Test #	JFJX10045962	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	JFJX10045961	Test Fuel Type	46 - CARB LEV3 E10 Regular
Test Date	10/18/2016	Fuel	Gasoline
Fuel Batch ID	UBACS1	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	1100, Toyoshirochou		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4300	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

	Test Result Name	Unrounded Test Result		Verify Calculated FE Equivalent Value (miles per gallon)
	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.218351		--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2184	0.0018	0.22	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2184	0.0018	0.22	0.3	Pass

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE																											
Test #	JFJX10045964	Test Procedure	38 - CA fuel 3-day evap.																											
Exhaust Test # for this Evap Test	JFJX10045963	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																											
Test Date	10/11/2016	Fuel	Gasoline																											
Fuel Batch ID	UBACS1	Fuel Calibration Number	2																											
Vehicle Class	N/A	DF Type	Mfr. Determined																											
Verify Test Lab ID	1100, Toyoshirochou																													
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)																													
Test Start Odometer Reading	4282	Odometer Units	M																											
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																											
State of Charge Delta	No																													
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No																											
Test Results																														
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.23942</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.23942	--																					
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																												
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.23942	--																												
Manufacturer Test Comments --																														
<table border="1"> <tr> <th>Certification Region</th> <th>Useful Life</th> <th>Standard Level</th> <th>Emission Name</th> <th>Rounded Result</th> <th>Add DF</th> <th>Certification Level</th> <th>Standard</th> <th>Pass/Fail</th> </tr> <tr> <td>Fed</td> <td>150,000 miles</td> <td>Federal Tier 3 Evap</td> <td>HC-TOTAL-EQUIV</td> <td>0.2394</td> <td>0.0018</td> <td>0.241</td> <td>0.3</td> <td>Pass</td> </tr> <tr> <td>CA</td> <td>150,000 miles</td> <td>California LEV-IV Zero Evap (Option 2)</td> <td>HC-TOTAL-EQUIV</td> <td>0.2394</td> <td>0.0018</td> <td>0.241</td> <td>0.3</td> <td>Pass</td> </tr> </table>				Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2394	0.0018	0.241	0.3	Pass	CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2394	0.0018	0.241	0.3	Pass
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail																						
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2394	0.0018	0.241	0.3	Pass																						
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2394	0.0018	0.241	0.3	Pass																						

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE						
Test #	JFJX10045966	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	JFJX10045963	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	10/11/2016	Fuel	Gasoline						
Fuel Batch ID	UBACS1	Fuel Calibration Number	2						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	1100, Toyoshirochou								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4265	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes						
Test Results									
<table border="1"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value (miles per gallon)</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.000161</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000161	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000161	--							
Manufacturer Test Comments --									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.01	Pass	

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Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE						
Test #	JFJX10045967	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	11/02/2016	Fuel	Gasoline						
Fuel Batch ID	UBACS1	Fuel Calibration Number	2						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	1100, Toyoshirochou								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4373	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.01362</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.01362	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.01362	--							
Manufacturer Test Comments --									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.0136	0	0.014	0.02	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0136	0	0.014	0.02	Pass	

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Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089697	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/06/2025	Fuel	N/A
Fuel Batch ID	AGBE02	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	1100, Toyoshirochou		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3854	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	302.720651	--
FE BAG 1 (Bag 1 Fuel Economy)	28.665094	28.665094
CO2 BAG 2 (Bag 2 Carbon Dioxide)	279.128571	--
FE BAG 2 (Bag 2 Fuel Economy)	31.337555	31.337555
CO2 BAG 3 (Bag 3 Carbon Dioxide)	262.887333	--
FE BAG 3 (Bag 3 Fuel Economy)	33.21386	33.21386
METHANE (CH4 - Methane)	0.002442	--
CO (Carbon Monoxide)	0.281268	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.51	--
DT-EER (Drive Trace Energy Economy Rating)	-0.15	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.35	--
MFR FE (Manufacturer Fuel Economy)	31.172201	31.172201
NOX (Nitrogen Oxide)	0.005661	--
N2O (Nitrous Oxide)	0.000348	--
HC-NM (Non-methane Hydrocarbon)	0.011162	--
NMOG (Non-methane organic gases)	0.012278	--
PM (Particulate Matter)	0.00029	--
HC-TOTAL (Total Hydrocarbon)	0.013467	--

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Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE									
	<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>280.481072</td> <td>999</td> </tr> <tr> <td>Optional Carbon-Related Exhaust Emissions</td> <td>280.623454</td> <td>999</td> </tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	280.481072	999	Optional Carbon-Related Exhaust Emissions	280.623454	999		
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE										
Carbon-Related Exhaust Emissions	280.481072	999										
Optional Carbon-Related Exhaust Emissions	280.623454	999										
	<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>279.552709</td> <td>--</td> </tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	279.552709	--					
Test Result Name	Unrounded Test Result	Verify Calculated CO2										
Carbon dioxide	279.552709	--										
Manufacturer Test Comments	--											
Test #	TFJX10089699	Test Procedure	24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	TFJX10089697	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	02/07/2025	Fuel	Gasoline									
Fuel Batch ID	AGBE02	Fuel Calibration Number	1									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	1100, Toyoshirochou											
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)											
Test Start Odometer Reading	3882	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	No											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No									
Test Results	<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.002047</td> <td>--</td> </tr> </tbody> </table>			Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.002047	--			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.002047	--										
Manufacturer Test Comments	--											
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail				
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.002	0.0021	0	0.2	Pass				
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.002	0.0021	0	0.2	Pass				

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE						
Emission Data Vehicle Information									
Vehicle ID / Configuration	TBE-HB16 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TFJXJ02.5VDH	Original Evaporative/Refueling Family	TFJXR01545GE						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	SUBARU	Represented Test Vehicle Model	OUTBACK AWD						
Leak Family Details									
Leak Family Identifier	5GE	Leak Family Name	TFJXR01545GE-5GE						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9924						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	25DNR3	Rated Horsepower	180						
Displacement (liters)	2.5								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3825	Equivalent Test Weight (pounds)	4250						
GVWR (lbs)	5027	N/V Ratio	25.3						
Axle Ratio	4.11								
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	8						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VFJXJ02.5VDH			Evaporative/Refueling Family		VFJXR01545GE	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	36.92	0.164	0.02288	13.51	0.2297	0.02128	13.6	
Cold CO	40.61	0.1804	0.02517	13.87	0.1969	0.02346	N/A	
US06	36.92	0.164	0.02288	13.51	0.2297	0.02128	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Tire size: 225/60R18						

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089691	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/28/2025	Fuel	Gasoline
Fuel Batch ID	USCI07	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4372	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	421.42471	--
FE BAG 1 (Bag 1 Fuel Economy)	20.669744	20.669744
CO2 BAG 2 (Bag 2 Carbon Dioxide)	462.128515	--
FE BAG 2 (Bag 2 Fuel Economy)	18.920849	18.920849
CO2 BAG 3 (Bag 3 Carbon Dioxide)	374.936205	--
FE BAG 3 (Bag 3 Fuel Economy)	23.30743	23.30743
METHANE (CH4 - Methane)	0.001923	--
CO (Carbon Monoxide)	0.291335	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.39	--
DT-EER (Drive Trace Energy Economy Rating)	-0.22	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.07	--
HCHO (Formaldehyde)	0.000022	--
MFR FE (Manufacturer Fuel Economy)	20.309836	20.309836
NOX (Nitrogen Oxide)	0.003028	--
N2O (Nitrous Oxide)	0.000168	--
HC-NM (Non-methane Hydrocarbon)	0.010039	--
NMOG (Non-methane organic gases)	0.011042	--
PM (Particulate Matter)	0.00047	--
HC-TOTAL (Total Hydrocarbon)	0.011758	--

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Certification Summary Information Report

Test Group		VFJXJ02.5VDH			Evaporative/Refueling Family					VFJXR01545GE		
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	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0.2	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0.2	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	OPT-CREE	999	--	--	--	0.3	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	OPT-CREE	999	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.29	--	--	--	0.12	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	1.07	--	--	--	0.12	--	1.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0	--	--	--	0	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0019	--	--	--	0.0008	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0019	--	--	--	0.0008	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0002	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0002	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.011	--	1.1	--	0.0023	--	0.013	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.014	--	1.1	--	--	--	0.019	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0165	--	1.03	--	--	--	0.016	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.003	--	--	--	0.0025	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0005	--	--	--	0	--	0	0.003	Pass
CA	120,000 miles	California LEV-IV SULEV30	CREE	999	--	--	--	0.2	--	999	--	--
CA	120,000 miles	California LEV-IV SULEV30	OPT-CREE	999	--	--	--	0.3	--	999	--	--
CA	150,000 miles	California LEV-IV SULEV30	CO	0.29	--	--	--	0.12	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	HCHO	0	--	--	--	0	--	0	0.004	Pass
CA	150,000 miles	California LEV-IV SULEV30	METHANE	0.0019	--	--	--	0.0008	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	N2O	0.0002	--	--	--	0.0005	--	0.001	0.010	Pass

Certification Summary Information Report

Test Group		VFJXJ02.5VDH				Evaporative/Refueling Family				VFJXR01545GE		
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
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.011	--	1.1	--	0.0023	--	0.013	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.014	--	1.1	--	--	--	0.019	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.003	--	--	--	0.0025	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0005	--	--	--	0	--	0	0.001	Pass

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

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089692	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	01/16/2025	Fuel	Gasoline
Fuel Batch ID	UQAI04	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4224	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	531.534195	--
FE BAG 1 (Bag 1 Fuel Economy)	16.528939	16.528939
CO2 BAG 2 (Bag 2 Carbon Dioxide)	499.113226	--
FE BAG 2 (Bag 2 Fuel Economy)	17.754127	17.754127
CO2 BAG 3 (Bag 3 Carbon Dioxide)	410.963664	--
FE BAG 3 (Bag 3 Fuel Economy)	21.548036	21.548036
METHANE (CH4 - Methane)	0.005981	--
CO (Carbon Monoxide)	0.510248	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.44	--
DT-EER (Drive Trace Energy Economy Rating)	-0.39	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.44	--
MFR FE (Manufacturer Fuel Economy)	18.347291	18.347291
NOX (Nitrogen Oxide)	0.005454	--
HC-NM (Non-methane Hydrocarbon)	0.046093	--
NMOG (Non-methane organic gases)	0.050702	--
HC-TOTAL (Total Hydrocarbon)	0.05156	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	481.610639	--

Manufacturer Test Comments

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Certification Summary Information Report

Test Group		VFJXJ02.5VDH				Evaporative/Refueling Family				VFJXR01545GE		
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 3 Bin 30	CO	0.5	--	--	--	0.04	--	1	10	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.05	--	--	--	0	--	0	0.2	Pass
CA	50,000 miles	California LEV-IV SULEV30	CO	0.51	--	--	--	0.04	--	0.6	10.0	Pass

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089695	Test Procedure	49 - Quick-Driveway (QD)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/21/2025	Fuel	Gasoline
Fuel Batch ID	USCI06	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4326	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	0.002356	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.53	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.09	--
NOX (Nitrogen Oxide)	0.003721	--
HC-NM (Non-methane Hydrocarbon)	0.015379	--
NMOG (Non-methane organic gases)	0.016917	--
HC-TOTAL (Total Hydrocarbon)	0.017519	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0169	--	--	--	0.0023	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0206	--	--	--	--	--	0.025	0.042	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0037	--	--	--	0.0025	--	0.006	999.999	Pass

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089696	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/23/2025	Fuel	Gasoline
Fuel Batch ID	USCI06	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4337	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	0.003357	--
CO (Carbon Monoxide)	0.466344	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.37	--
DT-EER (Drive Trace Energy Economy Rating)	-0.51	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.18	--
MFR FE (Manufacturer Fuel Economy)	19.70013	19.70013
NOX (Nitrogen Oxide)	0.002923	--
HC-NM (Non-methane Hydrocarbon)	0.022047	--
NMOG (Non-methane organic gases)	0.024252	--
HC-TOTAL (Total Hydrocarbon)	0.02506	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	443.381421	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VFJXJ02.5VDH				Evaporative/Refueling Family				VFJXR01545GE		
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
CA	4,000 miles	California LEV-IV SULEV30	CO	0.47	--	--	--	--	--	0.5	1.0	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG	0.0243	--	1.1	--	--	--	0.024	999.999	Pass
CA	4,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0272	--	1.1	--	--	--	0.027	0.060	Pass
CA	4,000 miles	California LEV-IV SULEV30	NOX	0.0029	--	--	--	--	--	0.003	999.999	Pass

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089690	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/29/2025	Fuel	Gasoline
Fuel Batch ID	USCI07	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4391	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	0.000174	--	
CO (Carbon Monoxide)	0.047908	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.16	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.29	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.26	--	
HCHO (Formaldehyde)	0.000001	--	
MFR FE (Manufacturer Fuel Economy)	31.784432	31.784432	
NOX (Nitrogen Oxide)	0.000422	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0	--	
NMOG (Non-methane organic gases)	0	--	
HC-TOTAL (Total Hydrocarbon)	0	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	275.07855	999	
Optional Carbon-Related Exhaust Emissions	275.08355	999	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	274.893715	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFJXJ02.5VDH				Evaporative/Refueling Family				VFJXR01545GE		
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	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0.1	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	OPT-CREE	999	--	--	--	0.2	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0.0023	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0004	--	1.03	--	--	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0004	--	--	--	0.0025	--	0.003	999.999	Pass
CA	120,000 miles	California LEV-IV SULEV30	CREE	999	--	--	--	0.1	--	999	--	--
CA	120,000 miles	California LEV-IV SULEV30	OPT-CREE	999	--	--	--	0.2	--	999	--	--
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0	--	1.03	--	0.0023	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0004	--	1.03	--	--	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0004	--	--	--	0.0025	--	0.003	999.999	Pass

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

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089689	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/29/2025	Fuel	Gasoline
Fuel Batch ID	USCI07	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4412	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	570.83365	--
FE BAG 1 (Bag 1 Fuel Economy)	15.022712	15.022712
CO2 BAG 2 (Bag 2 Carbon Dioxide)	327.259536	--
FE BAG 2 (Bag 2 Fuel Economy)	26.56564	26.56564
METHANE (CH4 - Methane)	0.002209	--
CO (Carbon Monoxide)	2.577753	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.22	--
DT-EER (Drive Trace Energy Economy Rating)	-0.52	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.11	--
MFR FE (Manufacturer Fuel Economy)	22.704166	22.704166
NOX (Nitrogen Oxide)	0.00239	--
HC-NM (Non-methane Hydrocarbon)	0.01056	--
NMOG (Non-methane organic gases)	0.010877	--
PM (Particulate Matter)	0.001637	--
HC-TOTAL (Total Hydrocarbon)	0.012708	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	381.180756	--

Manufacturer Test Comments

--

Certification Summary Information Report

Test Group		VFJXJ02.5VDH				Evaporative/Refueling Family				VFJXR01545GE		
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 3 Bin 30	CO	2.5778	--	--	--	0.12	--	2.698	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0109	--	1.03	--	0.0023	--	0.013	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0133	--	1.03	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0024	--	--	--	0.0025	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0016	--	--	--	0	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	2.58	--	--	--	0.12	--	2.7	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0109	--	1.03	--	0.0023	--	0.013	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0133	--	1.03	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0024	--	--	--	0.0025	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0016	--	--	--	0	--	0.002	0.003	Pass

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089693	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/24/2025	Fuel	Gasoline
Fuel Batch ID	USCJ15	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4695	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	0.000997	--
CO (Carbon Monoxide)	0.343009	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.17	--
DT-EER (Drive Trace Energy Economy Rating)	-0.08	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.55	--
MFR FE (Manufacturer Fuel Economy)	15.597843	15.597843
NOX (Nitrogen Oxide)	0.007358	--
HC-NM (Non-methane Hydrocarbon)	0.000908	--
NMOG (Non-methane organic gases)	0.000935	--
HC-TOTAL (Total Hydrocarbon)	0.001853	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	559.64707	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VFJXJ02.5VDH				Evaporative/Refueling Family				VFJXR01545GE		
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 3 Bin 30	CO	0.343	--	--	--	0.12	--	0.463	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0009	--	1.03	--	0.0023	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0083	--	1.03	--	--	--	0.013	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0074	--	--	--	0.0025	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.34	--	--	--	0.12	--	0.5	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0009	--	1.03	--	0.0023	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0083	--	1.03	--	--	--	0.013	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0074	--	--	--	0.0025	--	0.01	999.999	Pass

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
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Emission Data Vehicle Information

Vehicle ID / Configuration	TBF-HB162 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TFJXJ02.5VDH	Original Evaporative/Refueling Family	TFJXR01545GE
Original Test Vehicle Model Year	2026		
Vehicle Model			
Represented Test Vehicle Make	SUBARU	Represented Test Vehicle Model	OUTBACK AWD

Leak Family Details

Leak Family Identifier	5GE	Leak Family Name	TFJXR01545GE-5GE
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9928
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	25DNR3	Rated Horsepower	180
Displacement (liters)	2.5		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3785	Equivalent Test Weight (pounds)	4000
GVWR (lbs)	5027	N/V Ratio	25.3
Axle Ratio	4.11		
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	35.53	0.162	0.02287	0.61	0.4935	0.01911	13.4

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Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Test #	TFJX10089687	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	02/28/2025	Fuel	Gasoline
Fuel Batch ID	UAJJ03	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3831	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	294.90652	--
FE BAG 1 (Bag 1 Fuel Economy)	29.928103	29.928103
CO2 BAG 2 (Bag 2 Carbon Dioxide)	269.52711	--
FE BAG 2 (Bag 2 Fuel Economy)	32.949059	32.949059
CO2 BAG 3 (Bag 3 Carbon Dioxide)	253.608944	--
FE BAG 3 (Bag 3 Fuel Economy)	35.006737	35.006737
METHANE (CH4 - Methane)	0.002367	--
CO (Carbon Monoxide)	0.2913	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.41	--
DT-EER (Drive Trace Energy Economy Rating)	0.23	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.23	--
MFR FE (Manufacturer Fuel Economy)	32.887716	32.887716
NOX (Nitrogen Oxide)	0.004769	--
N2O (Nitrous Oxide)	0.000389	--
HC-NM (Non-methane Hydrocarbon)	0.013113	--
NMOG (Non-methane organic gases)	0.013637	--
HC-TOTAL (Total Hydrocarbon)	0.01523	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	270.503807	271
Optional Carbon-Related Exhaust Emissions	270.676345	271

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Certification Summary Information Report

Test Group		VFJXJ02.5VDH			Evaporative/Refueling Family					VFJXR01545GE		
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	120,000 miles	Federal Tier 3 Bin 30	CREE	271	--	--	--	0.2	--	271	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	271	--	--	--	0.2	--	271	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	OPT-CREE	271	--	--	--	0.3	--	271	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	OPT-CREE	271	--	--	--	0.3	--	271	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.29	--	--	--	0.12	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0024	--	--	--	0.0008	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0024	--	--	--	0.0008	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0004	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0004	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0136	--	1.1	--	0.0023	--	0.016	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0184	--	1.1	--	--	--	0.023	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0048	--	--	--	0.0025	--	0.007	999.999	Pass
CA	120,000 miles	California LEV-IV SULEV30	CREE	271	--	--	--	0.2	--	271	--	--
CA	120,000 miles	California LEV-IV SULEV30	OPT-CREE	271	--	--	--	0.3	--	271	--	--
CA	150,000 miles	California LEV-IV SULEV30	CO	0.29	--	--	--	0.12	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	METHANE	0.0024	--	--	--	0.0008	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	N2O	0.0004	--	--	--	0.0005	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0136	--	1.1	--	0.0023	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0184	--	1.1	--	--	--	0.023	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0048	--	--	--	0.0025	--	0.007	999.999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Fuel Properties			
Fuel Batch ID	USCI06	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/03/2024
Fuel Batch Calibration Effective Date	01/16/2025	Fuel Batch Calibration Ineffective Date	02/16/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.833	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17969
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.833	Weight Fraction CO2	--
Fuel Batch ID	UBACS1	Fuel Calibration Number	2
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	05/15/2016
Fuel Batch Calibration Effective Date	10/10/2016	Fuel Batch Calibration Ineffective Date	11/09/2016
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.825	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17774
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	USCJ15	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/03/2024
Fuel Batch Calibration Effective Date	02/20/2025	Fuel Batch Calibration Ineffective Date	03/20/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.833	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17969
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.833	Weight Fraction CO2	--
Fuel Batch ID	AGBE02	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/03/2024
Fuel Batch Calibration Effective Date	02/05/2025	Fuel Batch Calibration Ineffective Date	03/04/2025

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.833	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17969
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.833	Weight Fraction CO2	--
Fuel Batch ID	USCI07	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/03/2024
Fuel Batch Calibration Effective Date	01/21/2025	Fuel Batch Calibration Ineffective Date	02/21/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.833	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17969
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.833	Weight Fraction CO2	--
Fuel Batch ID	UQAI04	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	09/02/2021
Fuel Batch Calibration Effective Date	01/13/2025	Fuel Batch Calibration Ineffective Date	02/13/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.832	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17403
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.832	Weight Fraction CO2	--
Fuel Batch ID	UAJJ03	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	07/16/2024
Fuel Batch Calibration Effective Date	02/27/2025	Fuel Batch Calibration Ineffective Date	03/27/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.866	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.741
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18443
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--

Certification Summary Information Report

Test Group	VFJXJ02.5VDH	Evaporative/Refueling Family	VFJXR01545GE
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFJXJ02.5VDH			Evaporative/Refueling Family			VFJXR01545GE		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 30		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.12	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0023	999.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 30		
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	0.2	999.999	
120,000 miles	CREE	--	--	--	--	--	--	0.2	999.9999	
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.3	999.9999	
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.3	999.999	
150,000 miles	CO	--	--	--	--	--	--	0.12	1.0	
150,000 miles	CO-COMP	--	--	--	--	--	--	0.12	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004	
150,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030	
150,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030	
150,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010	
150,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0023	999.999	
150,000 miles	NMOG+NOX	--	--	1.1	--	--	1	--	0.030	
150,000 miles	NMOG+NOX-COMP	--	--	1.03	--	--	--	--	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.003	

Certification Summary Information Report

Test Group	VFJXJ02.5VDH				Evaporative/Refueling Family			VFJXR01545GE	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV SULEV30	
Fuel	Gasoline				Test Procedure			Fed. fuel 50 F exh.	
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	--	--	--	--	--	--	--	1.0
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008
4,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	1.1	--	--	1	--	0.060
4,000 miles	NOX	--	--	--	--	--	--	--	999.999

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV SULEV30	
Fuel	Gasoline				Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.2	999.9999
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.3	999.9999
150,000 miles	CO	--	--	--	--	--	--	0.12	1.0
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.001

Certification Summary Information Report

Test Group		VFJXJ02.5VDH			Evaporative/Refueling Family			VFJXR01545GE	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.12	1.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.12	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.1	999.9999
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.2	999.9999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999

Certification Summary Information Report

Test Group		VFJXJ02.5VDH			Evaporative/Refueling Family			VFJXR01545GE	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			Quick-Driveway (QD)	
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	--	--	--	--	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.042
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.1	999.9999
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.2	999.9999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.12	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0023	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0025	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

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Test Group	VFJXJ02.5VDH				Evaporative/Refueling Family			VFJXR01545GE	
Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 30	
Fuel	Gasoline				Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.04	10
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.2

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV SULEV30	
Fuel	Gasoline				Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.04	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family		VFJXR01545GE		Cert Region		California + CAA Section 177 states					
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)					
Test Procedure		Evap Canister Bleed Test									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.020		0	

Evaporative/Refueling Family		VFJXR01545GE		Cert Region		Federal					
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap					
Test Procedure		California fuel 2-day evap									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.300		0.0018	

Evaporative/Refueling Family		VFJXR01545GE		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0018		

Certification Summary Information Report

Test Group		VFJXJ02.5VDH		Evaporative/Refueling Family		VFJXR01545GE	
Evaporative/Refueling Family		VFJXR01545GE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.0021		
Evaporative/Refueling Family		VFJXR01545GE		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0		
Evaporative/Refueling Family		VFJXR01545GE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.01	0		
Evaporative/Refueling Family		VFJXR01545GE		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.0021		
Evaporative/Refueling Family		VFJXR01545GE		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
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		

Certification Summary Information Report

Test Group		VFJXJ02.5VDH		Evaporative/Refueling Family		VFJXR01545GE	
Evaporative/Refueling Family		VFJXR01545GE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0018		
Evaporative/Refueling Family		VFJXR01545GE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0018		

Certification Summary Information Report

Test Group		VFJXJ02.5VDH	Evaporative/Refueling Family		VFJXR01545GE
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

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Test Group		VFJXJ02.5VDH	Evaporative/Refueling Family		VFJXR01545GE
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

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Test Group		VFJXJ02.5VDH	Evaporative/Refueling Family		VFJXR01545GE
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VFJXJ02.5VDH	Evaporative/Refueling Family		VFJXR01545GE
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	