



SUBARU CORPORATION

Application for Certification <Part I>

2027 Model Year

Durability Group: VFJXHHGNNBJS
Test Group: VFJXT02.5XEJ
Evap./Refueling Family: VFJXR01655KH
Durability Group Description: Hybrid, Four stroke, Otto Cycle, Gasoline Fueled, DFI
Catalyst code: SFTB/SRTB
Test Group Description: 2.5L 4-Cylinder, Horizontally Opposed
Carline & Vehicle Class: Carline
FORESTER HYBRID
FORESTER WILDERNESS HYBRID
CROSSTREK HYBRID
Vehicle Class
LDT2
Emission Standards: Interim Tier4 Bin20 / LEV IV SULEV20
Evap. Standards: Tier3 / LEV IV
Vehicles Tested:

VID	Config.	Test	Fuel	Carryover of previous MY
VS-102	0	FTP/HWY/US06/50°F/QDA	Tier3 E10 Regular	No
VS-102	0	COLD CO	Cold CO E10 Regular	No
SBV-JS19	0	Evap., R/L, ORVR	Tier3 E10 Regular	Yes

Issue Date: Jun 8, 2026
Desired Approval Date by: July 24, 2026

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<u>Section</u>	<u>Title</u>	<u>CBI Common</u>	<u>FOI Common</u>	<u>CBI Test Group</u>	<u>FOI Test Group</u>
1	Correspondence and Communications	X	X	-	-
2	Durability Group Description				
2-1	Durability Group Description and Catalyst Information	-	-	X	-
2-2	Durability Group Breakdown	X	X	-	-
3	Evaporative / Refueling Family Description				
3-1	Evaporative / Refueling Family Name	X	X	-	-
3-2	Evaporative / Refueling Family Parameters	-	-	X	X
3-3	ORVR Information	X	X	-	-
3-4	ORVR Statement	X	X	-	-
3-5	Evaporative Leak Family Description	X	X	-	-
4	Durability Procedure Description	X	X	-	-
5	Test Group Description				
5-1	Test Group Description	X	X	X	X
5-2	Engine code breakdown	X	X	-	-
5-3	Transmission code breakdown	X	X	-	-
5-4	Catalyst code breakdown	X	X	-	-
6	Test Vehicle Description				
6-1	Durability Data Vehicle	-	-	X	X
6-2	Emission Data Vehicle	-	-	X	X
6-3	Evaporative Emission Data Vehicle	-	-	X	X
7	Test Results (CSI)	-	-	X	X
	Emission standards using a statement	X	X	-	-
8	Emission Compliance Statements				
8-1	Emission Testing Waiver Statement	X	-	-	-
8-2	Manufacturer Attestations	X	-	-	-
9	On-Board Diagnostic (OBD II) Description				
9-1	General Description	X	-	-	-
9-2	Deficiency and Concern Information	X	-	-	-
9-3	OBD Application	X	-	-	-
9-4	OBD Statement	X	-	-	-
9-5	OBD Table	X	-	-	-
9-6	CARB Approval Letter	X	-	X	-
10	Description of Alternate-fueled Vehicles	X	X	-	-
11	AECD Description	X	-	-	-
12	Description of Vehicles Covered by Certificate and Test Parameters				
12-1	Vehicle Parameters	-	-	X	X
12-2	Test Parameters – 1) Engine Start Procedure	X	X	-	-
	Test Parameters – 2) Shift Schedules	X	X	-	-
	Test Parameters – 3) Evap. Testing Running Loss FTTP	X	X	-	-
	Test Parameters – 4) Transmission Test Mode	X	X	-	-
	Test Parameters – 5) Advanced System Test Modes	X	-	-	-
	Test Parameters – 6) Cooling Fan Type	X	X	-	-
	Test Parameters – 7) Aspects of testing	X	X	-	-
	Test Parameters – 8) Single roll dynamometer TRLHP	X	X	-	-

<u>Section</u>	<u>Title</u>	<u>CBI Common</u>	<u>FOI Common</u>	<u>CBI Test Group</u>	<u>FOI Test Group</u>
13	Projected Sales				
13-1	Projected US Sales	X	-	-	-
13-2	Phase in compliance plan & schedules – 1) Tier 4 and Interim Tier 4 FTP, HFET, US06, and SC03 Fleet Average	X	-	-	-
	Phase in compliance plan & schedules – 2) Interim Tier 4 SFTP Fleet Average	X	-	-	-
	Phase in compliance plan & schedules – 3) Interim Tier 4 Cold Temperature NMHC Fleet Average	X	-	-	-
	Phase in compliance plan & schedules – 4) Tier 3 Evaporative Emission Fleet Average	X	-	-	-
	Phase in compliance plan & schedules – 5) Tier 3 Evaporative Emission Phase-in	X	-	-	-
14	Request for Certification	-	-	X	X
15	Other Information				
15-1	Vehicle Emission Control Information Label	-	-	X	X
15-2	Fee Filling Form	-	-	X	X
15-3	Recharging Procedures (PHEV only)	-	-	X	-
15-4	Methods used to determine battery performance and test procedure information (PHEV only)	-	-	X	-
15-5	Other Information	X	-	-	-
16	California ARB Information				
16-1	CARB compliance statement	X	-	-	-
16-2	Specifications for Filler Pipes and Openings	X	X	-	-
16-3	Compliance with Fleet Average Requirement				
	1) LEV IV FTP Fleet Average	X	-	-	-
	2) LEV IV Evaporative Emission Fleet Average	X	-	-	-
	3) LEV IV PM(FTP) Phase-in	X	-	-	-
	4) LEV IV PM(US06) Phase-in	X	-	-	-
	5) LEV IV NMOG+NOx and CO(US06) Phase-in	X	-	-	-
	6) LEV IV NMOG+NOx(Partial Soak) Phase-in	X	-	-	-
	7) LEV IV NMOG+NOx(Quick Drive Away) Phase-in	X	-	-	-
	8) LEV IV Running Loss Phase-in	X	-	-	-
16-4	Maintenance and Diagnostic Procedures	X	X	-	-
16-5	Manuals and Bulletins / Maintenance Log	X	X	-	-
16-6	New/Unique Emission Control Technology	X	-	-	-
16-7	Supplemental Data Sheet	-	-	X	X
16-8	Traction Battery Label (HEV only)	-	-	X	X
17	Service of Process	X	X	-	-

Section 1 Correspondence and Communications

Refer to Common Section, Section 1.

Section 2 Durability Group Description

2-1 Durability Group Description and Catalyst Information

Refer to CBI Test Group Section.

2-2 Durability Group Breakdown

Refer to Common Section.

Section 3 Evaporative/Refueling Family Description

3-1 Evaporative/Refueling Family Name: VFJXR01655KH

(For a breakdown of the evaporative/refueling families, refer to Common Section, Section 3)

3-2 Evaporative/Refueling Family Parameters

Refer to the next pages.

3-3 ORVR Information

Refer to Common Section, Section 3.

3-4 ORVR Statement

Refer to Common Section, Section 3.

3-5 Evaporative/Refueling Family – Leak Family Description

Refer to Common Section, Section 3.

3-2 Evaporative/Refueling Family Parameters

Evaporative/Refueling Family Name	VFJXR01655KH
1) Type of vapor storage device	Evaporative canister and intake vapor storage
2) Basic canister design	
i) Working capacity	165 g (ORVR canister)
ii) System configuration	Single canister
iii) Canister geometry, construction and materials	
Bed volume:	2,550cc (ORVR canister)
Canister material:	Plastic (ORVR canister)
Medium:	Activated carbon (ORVR canister)
Nominal fuel tank capacity	63L / 16.6 gal
3) Fuel system	Returnless
4) Type of refueling emission control system	Non-integrated ORVR
5) Fill pipe seal mechanism	Liquid seal
6) Vapor control system or method of vapor line to the canister	Valve vent , Valve fuel cut, Electric vent solenoid Valve, Mechanical Relief Valve
7) Purge control system	
Type of valve:	Duty
Purge control strategy:	Controlled by ECM
8) Vapor hose material	Steel, Rubber & Plastic (PA multilayer, ETFE/PA multilayer, NBR/FTP/ECO multilayer)
9) Fuel tank material	HDPE (High-density Polyethylene) (HDPE/EVOH multilayer)

Section 4 Durability Procedure Description

Refer to Common Section, Section 4.

For Deterioration Factors (DF), refer to Certification Summary Information Report in Section 7.

Section 5 Test Group Description

5-1 Test Group Description

Test group name	VFJXT02.5XEJ	
Durability Group	VFJXHHGNNBJS	
Engine displacement covered	2498 cc	
Arrangement and number of cylinders	Horizontally Opposed / 4 Cylinders	
Vehicle class(s) covered	LDT2: FORESTER HYBRID LDT2: FORESTER WILDERNESS HYBRID LDT2: CROSSTREK HYBRID	
Sales Location	50-States	
Emission standard class	Fed	Interim Tier4 Bin20
	Cal	LEV IV SULEV20
Applicable emission standards	Refer to CSI report in Section 7	
Electric Motor Capacity	88 kW	
Type and Size of Electric Motor	Brushless Permanent Magnet / 3340 cm ³	
Battery Capacity	1 kWh	
Battery Voltage	259 V	
Type of Battery Technology	Lithium ion, NMC, Carbon	

5-2 Engine code breakdown

Refer to Common section, Section 5.

5-3 Transmission code breakdown

Refer to Common section, Section 5.

5-4 Catalyst code breakdown

Refer to Common section, Section 5.

Section 6 Test Vehicle Description

6-1 Durability Data Vehicle

Durability group for test vehicle	VFJXHHGNNBJS			
VID	VS-102 / 0			
Model	2027MY FORESTER WILDERNESS HYBRID			
Vehicle drive source and fuel	Gasoline engine			
Engine displacement	2498cc			
Engine code	25DNR4			
Transmission type	e-CVT			
ETW	4250 lbs			
Axle ratio	3.70			
Vehicle drive mode while testing	Trans: I mode			
Dynamometer road-load target and set coefficients	Target		Set	
	A	35.74	A	15.14
	B	0.4527	B	0.3446
	C	0.02356	C	0.02272
SIL usage	Not equipped			
Aged emission components	Catalyst, A/F Sensor, Oxygen Sensor			
Engine rated horsepower	162HP @ 5600 rpm			
Rechargeable Energy Storage System	Battery			
Capable of off-board charging	No			

For complete vehicle information, see Certification Summary Information sheet.

Section 6 Test Vehicle Description

6-2 Emission Data Vehicle

Test group for test vehicle	VFJXT02.5XEJ			
VID/Config.	FTP/HWY/US06/QDA/ SC03/50degF/Cold FTP		VS-102 / 0	
Model	2027MY FORESTER WILDERNESS HYBRID			
Vehicle drive source and fuel	Gasoline engine			
Engine displacement	2498cc			
Engine code	25DNR4			
Transmission type	e-CVT			
ETW	4250 lbs			
Axle ratio	3.70			
Vehicle drive mode while testing	Trans: I mode			
Dynamometer road-load target and set coefficients (FTP/HWY/US06) (EPA testing laboratory)	Target		Set	
	A	35.74		13.07
	B	0.4527		0.3511
	C	0.02356		0.02295
Dynamometer road-load target and set coefficients (QDA)	Target		Set	
	A	35.74	A	15.14
	B	0.4527	B	0.3446
	C	0.02356	C	0.02272
Dynamometer road-load target and set coefficients (SC03/50degF)	Target		Set	
	A	35.74	A	17.15
	B	0.4527	B	0.2642
	C	0.02356	C	0.02353
Dynamometer road-load target and set coefficients (for Cold FTP only)	Target		Set	
	A	39.31	A	17.08
	B	0.4980	B	0.2208
	C	0.02592	C	0.02574
SIL usage	Not equipped			
Aged emission components	No aged components, 4K emission data vehicle was used			
Engine rated horsepower	162HP @ 5600 rpm			
Rechargeable Energy Storage System	Battery			
Capable of off-board charging	No			

For complete vehicle information, see Certification Summary Information sheet.

Section 6 Test Vehicle Description

6-3 Evaporative Emission Data Vehicle

Evaporative family for test vehicle		SFJXR01655KH			
VID/Config.	EVAP, R/L, ORVR	SBV-JS19 / 0			
Model		2025MY FORESTER HYBRID			
Vehicle drive source and fuel		Gasoline engine			
Engine displacement		2498cc			
Engine code		25DNR4			
Transmission type		e-CVT			
ETW		4250 lbs			
Axle ratio		3.700			
Vehicle drive mode while testing		Trans: I mode			
Dynamometer road-load target and set coefficients		Target		Set	
		A	27.24	A	9.33
		B	0.4199	B	0.3042
		C	0.02039	C	0.01974
SIL usage		Not equipped			
Aged emission components		No aged components, 4K emission data vehicle was used			
Engine rated horsepower		162HP @ 5600 rpm			
Rechargeable Energy Storage System		Battery			
Capable of off-board charging		No			

Section 7 Test Results

7-1 Certification Summary Information Report

Refer to included Certification Summary Information Report.

For other information, refer to Common Section, Section 7.

Certification Summary Information Report

Manufacturer	Subaru Corporation	Manufacturer Code	FJX
Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	06/03/2026 09:28:14 PM
Model Year	2027		

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
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Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Drive Source #2: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDT2
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	VFJXHHGNNBJS	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	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
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	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	04/27/2026 06:14:04 AM
Integrated ORVR?	No	Fuel(s)	Electricity, Gasoline
Multiple Fuel Storage	Fuels Stored Separately		
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	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	165	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	No	Applicability of Evaporative Canister Bleed Test	--
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--
CARB Fuel Only (Rig) Test Comments	--		
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VFJXR01655KH-5KH	50 State	0.02	--

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
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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	160 - CROSSTREK HYBRID AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Subaru Corporation	1 - Subaru	160 - CROSSTREK HYBRID AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Subaru Corporation	1 - Subaru	156 - FORESTER WILDERNESS HYBRID AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Subaru Corporation	1 - Subaru	150 - FORESTER HYBRID AWD	Federal	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Subaru Corporation	1 - Subaru	156 - FORESTER WILDERNESS HYBRID AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No
Subaru Corporation	1 - Subaru	150 - FORESTER HYBRID AWD	California + CAA Section 177 states	All Wheel Drive	Selectable Continuously Variable (e.g. CVT with paddles)	6	No

Engine Description			
Hybrid Type	IC Engine/Electric Motor	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	--

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family			VFJXR01655KH			
Engine Configuration Number 1											
Engine Displacement (liters)		2.5			Engine Rated Horsepower			162			
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									
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		--									
Official Test Numbers											
Test Group											
Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor	
Electricity	VFJX91006775	VFJX91006774	VFJX10093652	VFJX10093657	VFJX91006773	--	--	--	--	--	
Gasoline	VFJX91006775	VFJX91006774	VFJX10093652	VFJX10093657	VFJX91006773	73.3	31.5	118.5	27.9	--	

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargable Energy Storage System	Battery(s)	Rechargable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	259	Battery Energy Capacity	4.3
Battery Specific Energy	60.5	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	DC Permanent Magnet, brushless	Rated Motor/Generator Power	77
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
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Emission Data Vehicle Information

Vehicle ID / Configuration	SBV-JS19 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SFJXT02.5XEJ	Original Evaporative/Refueling Family	SFJXR01655KH
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	SUBARU	Represented Test Vehicle Model	FORESTER HYBRID AWD
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Leak Family Details

Leak Family Identifier	5KH	Leak Family Name	SFJXR01655KH-5KH
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9813
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	25DNR4	Rated Horsepower	162
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)	3961	Equivalent Test Weight (pounds)	4250
GVWR (lbs)	5386	N/V Ratio	9.1
Axle Ratio	3.7		
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	6
Transmission Lockup	No	Creep Gear	No

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Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	SFJX10086992	Test Procedure	25 - California 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	06/19/2024	Fuel	N/A
Fuel Batch ID	AGAE02	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	4163	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)	251.482268	--
FE BAG 1 (Bag 1 Fuel Economy)	34.417803	34.417803
CO2 BAG 2 (Bag 2 Carbon Dioxide)	137.764188	--
FE BAG 2 (Bag 2 Fuel Economy)	62.958471	62.958471
CO2 BAG 3 (Bag 3 Carbon Dioxide)	205.772391	--
FE BAG 3 (Bag 3 Fuel Economy)	42.165163	42.165163
CO2 BAG 4 (Bag 4 Carbon Dioxide)	136.467712	--
FE BAG 4 (Bag 4 Fuel Economy)	63.545758	63.545758
METHANE (CH4 - Methane)	0.001468	--
CO (Carbon Monoxide)	0.105445	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.14	--
DT-EER (Drive Trace Energy Economy Rating)	-0.02	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.94	--
MFR FE (Manufacturer Fuel Economy)	48.15828	48.15828
NOX (Nitrogen Oxide)	0.001369	--
N2O (Nitrous Oxide)	0.000607	--
HC-NM (Non-methane Hydrocarbon)	0.00401	--
NMOG (Non-methane organic gases)	0.004414	--
PM (Particulate Matter)	0.00028	--
HC-TOTAL (Total Hydrocarbon)	0.005378	--

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Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	SFJX10086993	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/19/2024	Fuel	N/A
Fuel Batch ID	AGAE02	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	4163	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)	251.482268	--
FE BAG 1 (Bag 1 Fuel Economy)	34.417803	34.417803
CO2 BAG 2 (Bag 2 Carbon Dioxide)	137.764188	--
FE BAG 2 (Bag 2 Fuel Economy)	62.958471	62.958471
CO2 BAG 3 (Bag 3 Carbon Dioxide)	205.772391	--
FE BAG 3 (Bag 3 Fuel Economy)	42.165163	42.165163
CO2 BAG 4 (Bag 4 Carbon Dioxide)	136.467712	--
FE BAG 4 (Bag 4 Fuel Economy)	63.545758	63.545758
METHANE (CH4 - Methane)	0.001468	--
CO (Carbon Monoxide)	0.105445	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.14	--
DT-EER (Drive Trace Energy Economy Rating)	-0.02	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.94	--
MFR FE (Manufacturer Fuel Economy)	48.15828	48.15828
NOX (Nitrogen Oxide)	0.001369	--
N2O (Nitrous Oxide)	0.000607	--
HC-NM (Non-methane Hydrocarbon)	0.00401	--
NMOG (Non-methane organic gases)	0.004414	--
PM (Particulate Matter)	0.00028	--
HC-TOTAL (Total Hydrocarbon)	0.005378	--

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH									
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>180.189168</td><td>999</td></tr><tr><td>Optional Carbon-Related Exhaust Emissions</td><td>180.401227</td><td>999</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	180.189168	999	Optional Carbon-Related Exhaust Emissions	180.401227	999
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE										
Carbon-Related Exhaust Emissions	180.189168	999										
Optional Carbon-Related Exhaust Emissions	180.401227	999										
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>179.631558</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	179.631558	--			
Test Result Name	Unrounded Test Result	Verify Calculated CO2										
Carbon dioxide	179.631558	--										
Manufacturer Test Comments	An item was corrected: Test Procedure.											

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	SFJX10086994	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	06/19/2024	Fuel	N/A
Fuel Batch ID	AGAE02	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	4163	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)	251.482268	--
FE BAG 1 (Bag 1 Fuel Economy)	34.417803	34.417803
CO2 BAG 2 (Bag 2 Carbon Dioxide)	137.764188	--
FE BAG 2 (Bag 2 Fuel Economy)	62.958471	62.958471
CO2 BAG 3 (Bag 3 Carbon Dioxide)	205.772391	--
FE BAG 3 (Bag 3 Fuel Economy)	42.165163	42.165163
CO2 BAG 4 (Bag 4 Carbon Dioxide)	136.467712	--
FE BAG 4 (Bag 4 Fuel Economy)	63.545758	63.545758
METHANE (CH4 - Methane)	0.001468	--
CO (Carbon Monoxide)	0.105445	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.14	--
DT-EER (Drive Trace Energy Economy Rating)	-0.02	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.94	--
MFR FE (Manufacturer Fuel Economy)	48.15828	48.15828
NOX (Nitrogen Oxide)	0.001369	--
N2O (Nitrous Oxide)	0.000607	--
HC-NM (Non-methane Hydrocarbon)	0.00401	--
NMOG (Non-methane organic gases)	0.004414	--
PM (Particulate Matter)	0.00028	--
HC-TOTAL (Total Hydrocarbon)	0.005378	--

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Test Result Name</th> <th style="width: 33%;">Unrounded Test Result</th> <th style="width: 33%;">Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>180.189168</td> <td>999</td> </tr> <tr> <td>Optional Carbon-Related Exhaust Emissions</td> <td>180.401227</td> <td>999</td> </tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	180.189168	999	Optional Carbon-Related Exhaust Emissions	180.401227	999		
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE										
Carbon-Related Exhaust Emissions	180.189168	999										
Optional Carbon-Related Exhaust Emissions	180.401227	999										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Test Result Name</th> <th style="width: 33%;">Unrounded Test Result</th> <th style="width: 33%;">Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>179.631558</td> <td>--</td> </tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	179.631558	--					
Test Result Name	Unrounded Test Result	Verify Calculated CO2										
Carbon dioxide	179.631558	--										
Manufacturer Test Comments	--											
Test #	SFJX10086996	Test Procedure	34 - Federal fuel 3-day evap									
Exhaust Test # for this Evap Test	SFJX10086993	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	06/20/2024	Fuel	Gasoline									
Fuel Batch ID	AGAE02	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	4207	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Test Result Name</th> <th style="width: 33%;">Unrounded Test Result</th> <th style="width: 33%;">Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.164356</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)	0.164356	--			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.164356	--										
Manufacturer Test Comments	A item was corrected: Test Procedure.											
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	0.1644	0.0164	0.181	0.400	Pass				
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1644	0.0164	0.181	0.400	Pass				

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	SFJX91006050	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	SFJX91006048	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/20/2024	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4443	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
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.147135	--

Manufacturer Test Comments Hot_Soak_HC_(g) = 0.017791, Diurnal (gHC) = 0.129344

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	0.1471	0.0164	0.164	0.400	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1471	0.0164	0.164	0.400	Pass

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	SFJX10086997	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SFJX10086993	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/20/2024	Fuel	Gasoline
Fuel Batch ID	AGAE02	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	4190	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)	0.000032	--

Manufacturer Test Comments An item was corrected: Test Procedure.

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	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.01	Pass

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH						
Test #	SFJX10086998	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	SFJX10086994	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	05/29/2024	Fuel	Gasoline						
Fuel Batch ID	AGAE01	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	4123	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									
<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>0.004156</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)	0.004156	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.004156	--							
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	0.004	0.000	0.00	0.20	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.004	0.000	0.00	0.20	Pass	

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH									
Emission Data Vehicle Information												
Vehicle ID / Configuration	VS-102 / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	VFJXT02.5XEJ	Original Evaporative/Refueling Family	VFJXR01655KH									
Original Test Vehicle Model Year	2027											
Vehicle Model												
Represented Test Vehicle Make	SUBARU	Represented Test Vehicle Model	FORESTER WILDERNESS HYBRID AWD									
Leak Family Details												
Leak Family Identifier	5KH	Leak Family Name	VFJXR01655KH-5KH									
Drive Sources and Fuel System Details												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> <tr> <td>2</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9921									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	25DNR4	Rated Horsepower	162									
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)	3955	Equivalent Test Weight (pounds)	4250									
GVWR (lbs)	5386	N/V Ratio	8.8									
Axle Ratio	3.7											
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	6									
Transmission Lockup	No	Creeper Gear	No									

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family		VFJXR01655KH	
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	35.74	0.4527	0.02356	15.14	0.3446	0.02272	15.6	
Cold CO	39.31	0.498	0.02592	17.08	0.2208	0.02574	N/A	
US06	35.74	0.4527	0.02356	15.14	0.3446	0.02272	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Tire size:235/60R17						

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX10093653	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	02/25/2026	Fuel	Gasoline
Fuel Batch ID	USEK10	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4329	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)	0.001932	--
CO (Carbon Monoxide)	0.156692	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.02	--
DT-EER (Drive Trace Energy Economy Rating)	-0.77	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.14	--
MFR FE (Manufacturer Fuel Economy)	40.85708	40.85708
NOX (Nitrogen Oxide)	0.001295	--
HC-NM (Non-methane Hydrocarbon)	0.006907	--
NMOG (Non-methane organic gases)	0.00761	--
HC-TOTAL (Total Hydrocarbon)	0.008681	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	213.816437	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family					VFJXR01655KH		
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 SULEV20	CO	0.16	--	--	--	--	--	0.2	1.0	Pass
CA	4,000 miles	California LEV-IV SULEV20	NMOG	0.0076	--	1.10	--	--	--	0.008	999.999	Pass
CA	4,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0089	--	1.10	--	--	--	0.009	0.040	Pass
CA	4,000 miles	California LEV-IV SULEV20	NOX	0.0013	--	--	--	--	--	0.001	999.999	Pass

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX10093654	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	03/06/2026	Fuel	Gasoline
Fuel Batch ID	USEK11	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4498	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)	0.001816	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.3	--
DT-EER (Drive Trace Energy Economy Rating)	-0.43	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.69	--
NOX (Nitrogen Oxide)	0.001402	--
HC-NM (Non-methane Hydrocarbon)	0.004906	--
NMOG (Non-methane organic gases)	0.005406	--
HC-TOTAL (Total Hydrocarbon)	0.006626	--

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 SULEV20	NMOG	0.0054	--	1.10	--	0.0036	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0068	--	1.10	--	--	--	0.013	0.032	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0014	--	--	--	0.0027	--	0.004	999.999	Pass

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX10093657	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	02/20/2026	Fuel	Gasoline
Fuel Batch ID	UQAK07	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4301	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			

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.037	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.593	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	485.641994	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	2.733265	--	
FE BAG 1 (Bag 1 Fuel Economy)	17.691241	17.691241	
CH4 BAG 1 (Bag 1 Methane)	0.024096	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.174848	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-285.5503304	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.855	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	202.973435	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.115844	--	
FE BAG 2 (Bag 2 Fuel Economy)	42.736618	42.736618	
CH4 BAG 2 (Bag 2 Methane)	0.000606	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	277.4143216	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.589	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	285.913234	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.010052	--	
FE BAG 3 (Bag 3 Fuel Economy)	30.360221	30.360221	
CH4 BAG 3 (Bag 3 Methane)	0.000832	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-131.0230715	--	
METHANE (CH4 - Methane)	0.005541	--	
CO (Carbon Monoxide)	0.62972	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.06	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.55	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.17	--	
MFR FE (Manufacturer Fuel Economy)	30.457544	30.457544	
NOX (Nitrogen Oxide)	0.003191	--	
HC-NM (Non-methane Hydrocarbon)	0.032973	--	
NMOG (Non-methane organic gases)	0.03627	--	

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family				VFJXR01655KH			
		HC-TOTAL (Total Hydrocarbon)		0.037943		--						
		WATT-HRS (Watt Hours)		-139.1590803		--						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		284.402504		--						
Manufacturer Test Comments		FE (Total, by BAG), and CO2 (Total, by BAG) are values before NEC correction.										
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 20	CO	0.63	--	--	--	0.00	--	0.6	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.03	--	--	--	0.0000	--	0.0	0.2	Pass
CA	50,000 miles	California LEV-IV SULEV20	CO	0.63	--	--	--	0.00	--	0.6	12.5	Pass

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX91006775	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	05/06/2026	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5064	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			

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.8644419	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.5822048	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	285.5099792	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.4332219	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	--	
CH4 BAG 1 (Bag 1 Methane)	0.0049883	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0260303	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0284486	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-124.9496612	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.848773	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	146.8409424	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0268029	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	--	
CH4 BAG 2 (Bag 2 Methane)	0.0011149	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001918	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0012412	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	144.3389282	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.584691	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	246.2158508	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0019222	--	
FE BAG 3 (Bag 3 Fuel Economy)	999	--	
CH4 BAG 3 (Bag 3 Methane)	0.0018497	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0004689	--	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.0022228	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-156.9146728	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.8487732	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	138.4213867	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0315887	--	
FE BAG 4 (Bag 4 Fuel Economy)	999	--	
CH4 BAG 4 (Bag 4 Methane)	0.0006363	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0003471	--	

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH					
	HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0.00092	--					
	WATT-HRS BAG 4 (Bag 4 Watt Hours)	151.9411621	--					
	METHANE (CH4 - Methane)	0.0019785	--					
	CO (Carbon Monoxide)	0.1056217	--					
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.783519	--					
	DT-EER (Drive Trace Energy Economy Rating)	-0.3621728	--					
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.1887865	--					
	MFR FE (Manufacturer Fuel Economy)	999	--					
	NOX (Nitrogen Oxide)	0.0018288	--					
	HC-NM (Non-methane Hydrocarbon)	0.0051564	--					
	NMOG (Non-methane organic gases)	0.0056625	--					
	PM (Particulate Matter)	0.0005025	--					
	HC-TOTAL (Total Hydrocarbon)	0.007056	--					
	WATT-HRS (Watt Hours)	14.4157438	--					
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>9999.9999999</td><td>200</td></tr></table>			Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	9999.9999999	200
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE						
Carbon-Related Exhaust Emissions	9999.9999999	200						
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>200.416153</td><td>--</td></tr></table>			Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	200.416153	--
Test Result Name	Unrounded Test Result	Verify Calculated CO2						
Carbon dioxide	200.416153	--						
Manufacturer Test Comments								
Amended Report (test number 20260077005); test is related to lab concern CA-26-023. Added values for HC-TOTAL bags, ACT-DISTANCE, and WATT-HRS. No other changes were made. Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 4, FE BAG 1, FE BAG 3, FE BAG 2								

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family					VFJXR01655KH		
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 20	CREE	200	--	--	--	0.0	--	200	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.11	--	--	--	0.01	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO-COMP	0.14	--	--	--	0.01	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	METHANE	0.0020	--	--	--	0.0023	--	0.004	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0057	--	1.10	--	0.0036	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0075	--	1.10	--	--	--	0.014	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX-COMP	0.0121	--	1.03	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0018	--	--	--	0.0027	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0005	--	--	--	0.0000	--	0.000	0.003	Pass
CA	120,000 miles	California LEV-IV SULEV20	CREE	200	--	--	--	0.0	--	200	--	--
CA	150,000 miles	California LEV-IV SULEV20	CO	0.11	--	--	--	0.01	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	METHANE	0.0020	--	--	--	0.0023	--	0.004	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0057	--	1.10	--	0.0036	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0075	--	1.10	--	--	--	0.014	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0018	--	--	--	0.0027	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	PM	0.0005	--	--	--	0.0000	--	0.000	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	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX91006773	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	04/30/2026	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5020	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)
ACT-DISTANCE (Actual Distance Driven (miles))	10.2583723	--
METHANE (CH4 - Methane)	0.0004853	--
CO (Carbon Monoxide)	0.0937171	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1606013	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2743662	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.4200429	--
MFR FE (Manufacturer Fuel Economy)	41.376545	--
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0001377	--
NMOG (Non-methane organic gases)	0.0001418	--
HC-TOTAL (Total Hydrocarbon)	0.000612	--
WATT-HRS (Watt Hours)	-2.115118	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	210

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	210.1392822	--

Manufacturer Test Comments

Amended Report (test number 20260077003); test is related to lab concern CA-26-023. Added values for ACT-DISTANCE, and WATT-HRS. No other changes were made.

Certification Summary Information Report

Test Group		VFJXT02.5XEJ				Evaporative/Refueling Family				VFJXR01655KH		
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 20	CREE	210	--	--	--	0.0	--	210	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0001	--	1.03	--	0.0036	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0001	--	1.03	--	--	--	0.006	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0000	--	--	--	0.0027	--	0.003	999.999	Pass
CA	120,000 miles	California LEV-IV SULEV20	CREE	210	--	--	--	0.0	--	210	--	--
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0001	--	1.03	--	0.0036	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0001	--	1.03	--	--	--	0.006	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0000	--	--	--	0.0027	--	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	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX91006774	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	04/30/2026	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5040	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			

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	7.9979415	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.768715	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	374.3834534	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.3413	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	--	
CH4 BAG 1 (Bag 1 Methane)	0.0024741	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0127247	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0147722	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-154.9265289	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.2292266	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	271.0606384	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1502664	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	--	
CH4 BAG 2 (Bag 2 Methane)	0.0009567	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0061966	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0069511	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	144.4759979	--	
METHANE (CH4 - Methane)	0.0012923	--	
CO (Carbon Monoxide)	0.1925128	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.7832729	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.2154661	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.0798249	--	
MFR FE (Manufacturer Fuel Economy)	999	--	
NOX (Nitrogen Oxide)	0.0012435	--	
N2O (Nitrous Oxide)	0.0001045	--	
HC-NM (Non-methane Hydrocarbon)	0.0074177	--	
NMOG (Non-methane organic gases)	0.0076402	--	
PM (Particulate Matter)	0.000448	--	
HC-TOTAL (Total Hydrocarbon)	0.0086807	--	
WATT-HRS (Watt Hours)	-10.4505281	--	

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family				VFJXR01655KH			
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		293.9100647		--						
Manufacturer Test Comments				Amended Report (test number 20260077004); test is related to lab concern CA-26-023. Added values for HC-TOTAL bags, ACT-DISTANCE, and WATT-HRS. No other changes were made. Unrounded Result for the following test results were modified by Verify: FE BAG 1, MFR FE, FE BAG 2								
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 20	CO	0.1925	--	--	--	0.01	--	0.202	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0076	--	1.03	--	0.0036	--	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0088	--	1.03	--	--	--	0.015	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0012	--	--	--	0.0027	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0004	--	--	--	0.0000	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.19	--	--	--	0.01	--	0.2	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0076	--	1.03	--	0.0036	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0088	--	1.03	--	--	--	0.015	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0012	--	--	--	0.0027	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	PM	0.0004	--	--	--	0.0000	--	0.000	0.003	Pass

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX10093652	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	03/06/2026	Fuel	Gasoline
Fuel Batch ID	USEK09	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4506	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)
ACT-DISTANCE (Actual Distance Driven (miles))	3.576	--
METHANE (CH4 - Methane)	0.001005	--
CO (Carbon Monoxide)	0.088724	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.03	--
DT-EER (Drive Trace Energy Economy Rating)	-0.82	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.22	--
MFR FE (Manufacturer Fuel Economy)	28.879559	28.879559
NOX (Nitrogen Oxide)	0.000965	--
HC-NM (Non-methane Hydrocarbon)	0.000813	--
NMOG (Non-methane organic gases)	0.000838	--
HC-TOTAL (Total Hydrocarbon)	0.001769	--
WATT-HRS (Watt Hours)	4.6470059	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	303.394224	--

Manufacturer Test Comments

FE and CO2 are values before NEC correction.

Certification Summary Information Report

Test Group		VFJXT02.5XEJ				Evaporative/Refueling Family				VFJXR01655KH		
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 20	CO	0.0887	--	--	--	0.01	--	0.099	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0008	--	1.03	--	0.0036	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0018	--	1.03	--	--	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0010	--	--	--	0.0027	--	0.004	999.999	Pass

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH									
Emission Data Vehicle Information												
Vehicle ID / Configuration	VS-102 / 1	Manufacturer Vehicle Configuration Number	1									
Original Test Group Name	VFJXT02.5XEJ	Original Evaporative/Refueling Family	VFJXR01655KH									
Original Test Vehicle Model Year	2027											
Vehicle Model												
Represented Test Vehicle Make	SUBARU	Represented Test Vehicle Model	FORESTER WILDERNESS HYBRID AWD									
Leak Family Details												
Leak Family Identifier	5KH	Leak Family Name	VFJXR01655KH-5KH									
Drive Sources and Fuel System Details												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> <tr> <td>2</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9921									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	25DNR4	Rated Horsepower	162									
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)	3955	Equivalent Test Weight (pounds)	4250									
GVWR (lbs)	5386	N/V Ratio	8.8									
Axle Ratio	3.7											
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	6									
Transmission Lockup	No	Creeper Gear	No									

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family		VFJXR01655KH	
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	35.74	0.4527	0.02356	17.15	0.2642	0.02353	15.6	
Cold CO	39.31	0.498	0.02592	17.08	0.2208	0.02574	N/A	
US06	35.74	0.4527	0.02356	17.15	0.2642	0.02353	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Tire size:235/60R17						

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test #	VFJX10093647	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	02/27/2026	Fuel	Gasoline
Fuel Batch ID	UAJJ10	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	3-9-6, Osawa		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4352	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			

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.915	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.594	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	292.498064	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.461001	--	
FE BAG 1 (Bag 1 Fuel Economy)	30.379215	30.379215	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.03698	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-155.46852	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.862	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	148.606009	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.047645	--	
FE BAG 2 (Bag 2 Fuel Economy)	59.67495	59.67495	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.000331	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	138.5047804	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.594	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	242.300643	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.052009	--	
FE BAG 3 (Bag 3 Fuel Economy)	36.748495	36.748495	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.002287	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-129.9471408	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.865	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	150.973386	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.078421	--	
FE BAG 4 (Bag 4 Fuel Economy)	58.866596	58.866596	
HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0.000327	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	114.5571783	--	
METHANE (CH4 - Methane)	0.001601	--	
CO (Carbon Monoxide)	0.143611	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.48	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.16	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.77	--	
MFR FE (Manufacturer Fuel Economy)	43.344491	43.344491	
NOX (Nitrogen Oxide)	0.002182	--	
N2O (Nitrous Oxide)	0.000413	--	

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
	HC-NM (Non-methane Hydrocarbon)	0.006979	--
	NMOG (Non-methane organic gases)	0.007259	--
	HC-TOTAL (Total Hydrocarbon)	0.008463	--
	WATT-HRS (Watt Hours)	-32.3537021	--
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
	Carbon-Related Exhaust Emissions	205.245317	203
	Optional Carbon-Related Exhaust Emissions	205.401345	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	204.862818	--

Manufacturer Test Comments FE (Total, by BAG), CO2 (Total, by BAG), CREE, and OptCREE are values before NEC correction.

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family					VFJXR01655KH		
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 20	CREE	203	--	--	--	0.0	--	203	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.14	--	--	--	0.01	--	0.2	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	METHANE	0.0016	--	--	--	0.0023	--	0.004	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	N2O	0.0004	--	--	--	0.0004	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0073	--	1.10	--	0.0036	--	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0095	--	1.10	--	--	--	0.016	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0022	--	--	--	0.0027	--	0.005	999.999	Pass
CA	120,000 miles	California LEV-IV SULEV20	CREE	203	--	--	--	0.0	--	203	--	--
CA	150,000 miles	California LEV-IV SULEV20	CO	0.14	--	--	--	0.01	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	METHANE	0.0016	--	--	--	0.0023	--	0.004	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	N2O	0.0004	--	--	--	0.0004	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0073	--	1.10	--	0.0036	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0095	--	1.10	--	--	--	0.016	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0022	--	--	--	0.0027	--	0.005	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	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Fuel Properties			
Fuel Batch ID	AGAE02	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/06/2021
Fuel Batch Calibration Effective Date	06/17/2024	Fuel Batch Calibration Ineffective Date	07/16/2024
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.827	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17962
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	UAJJ10	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	07/16/2024
Fuel Batch Calibration Effective Date	02/20/2026	Fuel Batch Calibration Ineffective Date	03/20/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.741
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)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	43732	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/13/2025
Fuel Batch Calibration Effective Date	06/13/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17885
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.37	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	USEK10	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/15/2025
Fuel Batch Calibration Effective Date	02/23/2026	Fuel Batch Calibration Ineffective Date	03/23/2026

Certification Summary Information Report

Test Group	VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	10.1	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.32	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	AGAE01	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/06/2021
Fuel Batch Calibration Effective Date	05/27/2024	Fuel Batch Calibration Ineffective Date	06/26/2024
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.827	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17962
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	USEK09	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/15/2025
Fuel Batch Calibration Effective Date	03/02/2026	Fuel Batch Calibration Ineffective Date	04/02/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	10.1	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.32	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894

Certification Summary Information Report

Test Group		VFJXT02.5XEJ	Evaporative/Refueling Family	VFJXR01655KH
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	USEK11		Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)		Fuel Batch Calibration Date	01/15/2025
Fuel Batch Calibration Effective Date	03/04/2026		Fuel Batch Calibration Ineffective Date	04/04/2026
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	10.1		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.32		Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--		Weight Fraction CO2	--
Fuel Batch ID	UQAK07		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	02/19/2026		Fuel Batch Calibration Ineffective Date	03/19/2026
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.7		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.46		Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family			VFJXR01655KH	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.0	999.999
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.1	999.999
150,000 miles	CO	--	--	--	--	--	--	0.01	1.0
150,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0023	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0004	0.010
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	1	--	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.001
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.01	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family			VFJXR01655KH	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.0	999.999
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.1	999.999
150,000 miles	CO	--	--	--	--	--	--	0.01	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0.01	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0023	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0004	0.010
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	1.03	--	--	--	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.01	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family			VFJXR01655KH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV20	
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	--	--	1.10	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	1.10	--	--	1	--	0.040
4,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.0	999.999
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.0	999.999
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family			VFJXR01655KH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.01	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.00	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.0000	0.2
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV20	
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	--	--	1.10	--	--	--	0.0036	999.999
150,000 miles	NMOG+NOX	--	--	1.10	--	--	1	--	0.032
150,000 miles	NOX	--	--	--	--	--	--	0.0027	999.999

Certification Summary Information Report

Test Group		VFJXT02.5XEJ			Evaporative/Refueling Family			VFJXR01655KH	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.00	12.5

Evaporative/Refueling Standards

Evaporative/Refueling Family		VFJXR01655KH		Cert Region		California + CAA Section 177 states					
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)					
Test Procedure		2-day evap									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.400		0.0164	

Evaporative/Refueling Family		VFJXR01655KH		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 Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.01	0.000		

Evaporative/Refueling Family		VFJXR01655KH		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0164		

Evaporative/Refueling Family		VFJXR01655KH		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	0.000		

Certification Summary Information Report

Test Group		VFJXT02.5XEJ		Evaporative/Refueling Family		VFJXR01655KH	
Evaporative/Refueling Family		VFJXR01655KH		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal 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		VFJXR01655KH		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0164		
Evaporative/Refueling Family		VFJXR01655KH		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 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0164		
Evaporative/Refueling Family		VFJXR01655KH		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	0.000		

Certification Summary Information Report

Test Group		VFJXT02.5XEJ	Evaporative/Refueling Family		VFJXR01655KH
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	

Certification Summary Information Report

Test Group		VFJXT02.5XEJ	Evaporative/Refueling Family		VFJXR01655KH
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	

Certification Summary Information Report

Test Group		VFJXT02.5XEJ	Evaporative/Refueling Family		VFJXR01655KH
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		VFJXT02.5XEJ	Evaporative/Refueling Family		VFJXR01655KH
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	



This SC03 test result is applicable only to CARB certification.

[Emission]
<Test Information>

Vehicle Information

Manufacturer	Subaru Corporation
Model Year	2027
Manufacturer Code	FJX
Test Group	VFJXT02.5XEJ
Evaporative/Refueling Family	VFJXR01655KH
Durability Group Name	VFJXHGGNNBJS
Standard Level	LEVIV SULEV20
Useful Life	150,000 miles
Test ID	VS-102-SC03-CA

Test Information

Test	Date	3/6/2026
	ODO : Start	4,513 miles

Test Fuel Information

Fuel Used	Tier3
	Regular(E10)
Lot No.	0000071704
EPA Application Batch ID.	USEK09

NMOG/NMHC Ratio	1.03
-----------------	------

<SC03 Test Result>

Emission	Result [g/mile] (w/o DF)		Result [g/mile]			
		Round	DF	w/DF	Limit Values	vs. Limit
NMOG	0.0000447	0.000045	0.0036	0.0036	-	-
NOx	0.0005076	0.000508	0.0027	0.0032	-	-
NMOG+NOx	0.0005524	0.000552	0.0063	0.0069	0.020	34.5%
CO	0.113887	0.11388	0.01	0.12	1.0	12.0%

SAE J2951	EER [%]	-0.82
	ASCR [%]	0.03
	IWR [%]	0.22
	RMSSE [mph]	0.20

Section 7 Test Results

7-2 EPA Litmus Test Results

Test Group	Vehicle Number	City				Highway			
VFJXT02.5XEJ	VS-102 Config. 0	5-cycle calc'd	Derived 5-cycle	Criterion 4%	Result	5-cycle calc'd	Derived 5-cycle	Criterion 5%	Result
		30.7	32.8	31.5	5-cycle	29.7	29.3	27.9	5-cycle

Section 8 Emission Compliance Statements

Refer to Common Section, Section 8.

.

Section 9 On-Board Diagnostic (OBD II) Description

9-1 General Description

Refer to Common Section, Section 9.

9-2 Deficiency and Concern Information

Refer to Common Section, Section 9.

9-3 OBD Application

Refer to Common Section, Section 9.

9-4 OBD Statement

Refer to Common Section, Section 9.

9-5 OBD Table

Refer to Common Section, Section 9.

9-6 CARB Approval Letter

Refer to CBI Test Group Section.

Section 10 Description of Alternate-Fueled Vehicles

Refer to Common Section, Section 10..

Section 11 AECD Description

Refer to Common Section, Section 11.

Section 12 Description of Vehicle Covered by Certificate and Test Parameter

12-1 Vehicle Parameters

Test Group: VFJXT02.5XEJ

Durability Group: VFJXHHGNNBJS

Evaporative/Refueling Family: VFJXR01655KH

Carline		FORESTER HYBRID		FORESTER WILDERNESS HYBRID
Model Name		FORESTER HYBRID		
Vehicle classification		LDT2		
Emission Control System Description	Type, number and configuration of catalysts	Three-way catalyst (2), Front & Rear		
	Catalyst Code	SFTB (Front) / SRTB (Rear)		
	EGR type	EEGR = Electronic/Electric		
	Air pump type	Not equipped		
	Fuel system type	DFI		
	Intake air aspiration method	Naturally aspirated		
Engine Code		25DNR4		
Number of valves per cylinder		4		
Engine displacement(cc)		2498		
Sales area		50 states		
Transmission code		53		
SIL		Not equipped		
Tire size		225/55R18	235/50R19	235/60R17
N/V Ratio		9.3 (225/55R18)	9.1 (235/50R19)	8.8 (235/60R17)
ETW (lbs)		4250		
Dynamometer RLHP Target coefficients		Refer to Common Section, Section 12		
Fuel Tank Volume		63 L (16.6 gal)		

12-1 Vehicle Parameters – cont.

Test Group: VFJXT02.5XEJ

Durability Group: VFJXHHGNNBJS

Evaporative/Refueling Family: VFJXR01655KH

Carline		CROSSTREK HYBRID
Model Name		CROSSTREK HYBRID
Vehicle classification		LDT2
Emission Control System Description	Type, number and configuration of catalysts	Three-way catalyst (2), Front & Rear
	Catalyst Code	SFTB (Front) / SRTB (Rear)
	EGR type	EEGR = Electronic/Electric
	Air pump type	Not equipped
	Fuel system type	DFI
	Intake air aspiration method	Naturally aspirated
Engine Code		25DNR4
Number of valves per cylinder		4
Engine displacement(cc)		2498
Sales area		50 states
Transmission code		52
SIL		Not equipped
Tire size		225/55R18
N/V Ratio		9.3 (225/55R18)
ETW (lbs)		4000
Dynamometer RLHP Target coefficients		Refer to Common Section, Section 12
Fuel Tank Volume		63 L (16.6 gal)

12-2 Test Parameters

Refer to Common Section, Section 12.

Section 13 Projected Sales

Refer to Common Section, Section 13.

Section 14 Request for Certification

Durability Group: VFJXHHGNNBJS

Test Group: VFJXT02.5XEJ

Evaporative/Refueling Family: VFJXR01655KH

SUBARU CORPORATION request that EPA issue a 2027 model year certificate of conformity for the above-specified test group and evaporative family combinations as described in this application.

This combination complies with all applicable regulations contained within 40 CFR Part 85, 86, 600, 1065 and 1066, if applicable, within Title 13 of the California Code of Regulations.

The exhaust and evaporative emission test results listed in Section 7 support this request for certificate.

The application is current as of this date.

SUBARU CORPORATION

A handwritten signature in cursive script, reading "M. Shirasaka".

Mitsunari Shirasaka

General Manager

Certification and Engineering Dept.

Section 15 Other Information

15-1 Vehicle Emission Control Information Label

For FORESTER HYBRID

PART NUMBER: 14808AK170

		SUBARU CORPORATION	
SUBARU VEHICLE EMISSION CONTROL INFORMATION			
Conforms to regulations :		2027MY	Fuel : Gasoline
U. S. EPA :		IT4B20 LDT2	OBD : CA II
California :		SULEV20 LDT2	OBD : CA II
Test Group :		VFJXT02.5XEJ(2.5L)	Evap : VFJXR01655KH
TWC(2)/WR-HO2S/HO2S/DFI/EGR/EGRC		LN	
No adjustments needed.			

PART NUMBER: 14808AK09A

		SUBARU CORPORATION	
SUBARU VEHICLE EMISSION CONTROL INFORMATION			
Conforms to regulations :		2027MY	Fuel : Gasoline
U. S. EPA :		IT4B20 LDT2	OBD : CA II
California :		SULEV20 LDT2	OBD : CA II
Test Group :		VFJXT02.5XEJ(2.5L)	Evap : VFJXR01655KH
TWC(2)/WR-HO2S/HO2S/DFI/EGR/EGRC		RA	
No adjustments needed.			

For FORESTER WILDERNESS HYBRID

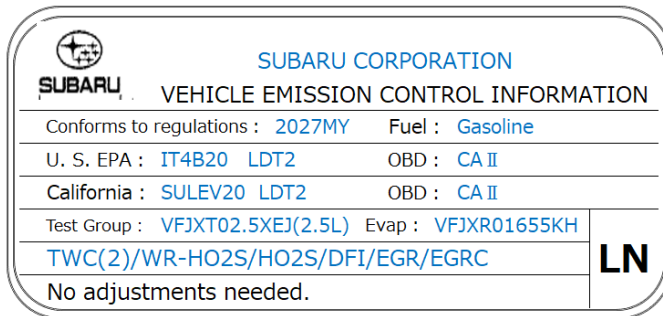
PART NUMBER: 14808AK09A

		SUBARU CORPORATION	
SUBARU VEHICLE EMISSION CONTROL INFORMATION			
Conforms to regulations :		2027MY	Fuel : Gasoline
U. S. EPA :		IT4B20 LDT2	OBD : CA II
California :		SULEV20 LDT2	OBD : CA II
Test Group :		VFJXT02.5XEJ(2.5L)	Evap : VFJXR01655KH
TWC(2)/WR-HO2S/HO2S/DFI/EGR/EGRC		RA	
No adjustments needed.			

15-1 Vehicle Emission Control Information Label – cont.

For CROSSTREK HYBRID

PART NUMBER: 14808AK170



Location : The Vehicle Emission Control Information (VECI) label is attached to the underside of the engine compartment hood.

Section 15 Other Information

15-2 Fee Filling Form

Refer to the next page.

15-3 Recharging Procedures

Refer to CBI Test Group Section.

15-4 Methods used to determine battery performance and test procedure information

Refer to CBI Test Group Section.

Lindsey Jeng NASI MI

From: notification@pay.gov
Sent: Friday, March 6, 2026 9:28 AM
To: Lindsey Jeng NASI MI
Subject: Pay.gov Payment Confirmation: Motor Vehicle and Engine Compliance Program Fees



An official email of the United States government



Your payment has been submitted to the designated government agency through Pay.gov and the details are below. Please note that this is just a confirmation of transaction submission. To confirm that the payment processed as expected, you may refer to your bank statement on the scheduled payment date. If you have any questions or wish to cancel this payment, you will need to contact the agency you paid at your earliest convenience.

You will receive a reminder email several days before the payment is processed.
If you wish to cancel this transaction, sign in to your account at <https://www.pay.gov/> and choose the Pending tab of the Payment Activity page.

Application Name: Motor Vehicle and Engine Compliance Program Fees
Pay.gov Tracking ID: 2807U8J1
Agency Tracking ID: 77318677216

Account Holder Name: Lindsey Jeng
Transaction Type: ACH Debit
Transaction Amount: \$32,317.00
Payment Date: 03/09/2026

Account Type: Business Checking
Routing Number: 072000096
Account Number: *****3414

Transaction Date: 03/06/2026 09:28:26 AM EST
Total Payments Scheduled: 1
Frequency: OneTime

Engine Family: VFJXT02.5XEJ
ICI VIN Number:
Process Code: New

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Section 16 California ARB Information

Table of Contents

16-1	CARB Compliance Statement (Refer to Common Section)
16-2	Specifications for Filler Pipes and Openings (Refer to Common Section)
16-3	Compliance with Fleet Average Requirement (Refer to Common Section)
16-4	Maintenance and Diagnostic Procedures (Refer to Common Section)
16-5	Manuals and Bulletins/ Maintenance Log (Refer to Common Section)
16-6	New Emission Control Technology (Refer to Common Section)
16-7	Supplemental Data Sheet
16-8	Traction Battery Label

Note: Detailed information for certification is also submitted by E-Cert.

16-7 Supplemental Data Sheet

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

Manufacturer: SUBARU CORPORATION Test Group: VFJXT02.5XEJ Evap Fam: VFJXR01655KH

Engine Code Types: CA_ 49S_ 50S_ x AB965_ ORVR: YES_ x NO _____

Exhaust Std: CA Tier-1_ TLEV_ LEV_ ULEV_ SULEV_ LEV4 SULEV20_ x US EPA Interim Tier4 Bin20

Veh Class: PC_ LDT1_ LDT2_ x MDV1_ MDV2_ MDV3_ MDV4_ MDV5 _____

Single Cert Std for Multi-Class Test Group: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Fuel Type(s): Dedicated_ x Flex-Fuel_ Dual-Fuel_ Bi-Fuel_ Gasoline_ x
 Diesel_ CNG_ LNG_ LPG_ M85 _____ Other (specify) _____

Exh Emiss Test Fuel(s): Indo_ CBG_ CNG_ LPG_ M85_ Other (specify) Tier3 E10 Regular
 Diesel: 13 CCR 2282 _ 40 CFR 86.113-90 _ 40 CFR 86.113-94 _____

Evaporative Emission Test Procedure: California_ Federal_ x

Service Accum: SRC_ x Mod AMA_ Mfr ADP_ Other(specify) _____

NMOG Test Procedure: N/A_ Std_ x Equiv_ R/L Test Proc: SHED_ Pt Source_ x

Engine Configuration: 01 Displacement: 2.5 Liters 152 Cubic Inches

Valves per Cylinder: 4 Rated HP: 162 @ 5600 RPM

Engine: Front_ x Mid_ Rear_ Drive: FWD_ RWD_ 4WD-FT_ x 4WD-PT_ _____

Exhaust ECS(e.g., MFI, EGR, TC, CAC): TWC(2)/WR-HO2S/HO2S/DFI/EGR/EGRC

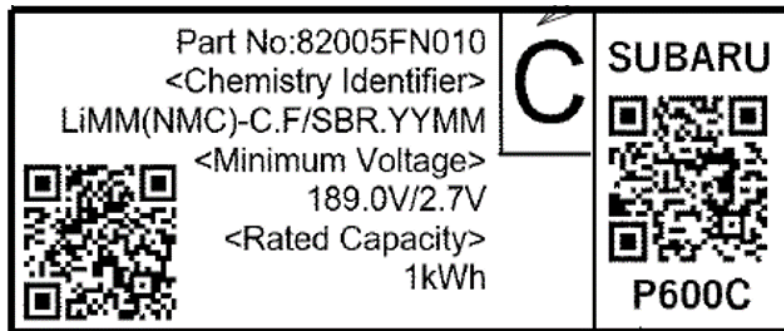
1.Authorized Representative	<u>Sec 1</u>	22.Gen Std, Increase in Emiss,Safety	<u>Sec 16-1</u>	
2.Fuel Specification	<u>Sec 7</u>	Meets all Reqmts		
3.Test Equipment	<u>Filed at Subaru</u>	23.Driveability Statements	<u>Not required</u>	
4.Test procedure	<u>Filed at Subaru</u>	24.Adjustable Parameters	<u>Not applicable</u>	
5.Mileage Accumulation Route	<u>Filed at Subaru</u>	25.Tamper Resistance Method(s)	<u>Not required</u>	
6.Emission Warranty Statement	<u>Sec 16-1</u>	26.Fill Pipe Specifications	<u>Sec 16-2</u>	
7.Maint:Cert/Req'd/Recm'	<u>Sec 16-1</u>	27.High Altitude Compliance	<u>Sec 16-1</u>	
8.Emiss Label/Vac Hose Dia	<u>Sec 15</u>	28.OBD Sys Incl Marked Revisions	<u>Sec 9</u>	
9.Evap Control System	<u>Sec 3</u>	29.I & M Test Procedure & Data	<u>Not applicable</u>	
10.Engine Parameters	<u>Sec 7</u>	30.50 Degree F Compliance	<u>Sec 7</u>	
11.Fuel System	<u>Not required</u>	31.Manufacturer's RAF	<u>Not applicable</u>	
12.Ignition System	<u>Not required</u>	32.Phase-In Schedule	<u>Sec 13</u>	
13.Exhaust Control System	<u>Not required</u>	33.NMOG Fleet Average Calculation	<u>Sec 16-3</u>	
14.Proj Sales(LDV/MDV Split)	<u>Sec 13</u>	34.AB965 Credits/Withdrawals	<u>Not applicable</u>	
15.Vehicle Description	<u>Sec 12</u>	35.EPA certificate	<u>TBD</u>	
16.Evap Bench Test Procedure	<u>Sec 4</u>	36.Equiv NMOG Proc—ARB Approval	<u>Not applicable</u>	
17.R/L Temp & Press Profiles	<u>Sec 12-2</u>			
18.EDV Selection	<u>Sec 6</u>			
19.Prod Veh same as Test Veh	<u>Not required</u>			
20.Emission Label Durability	<u>Sec 16-1</u>			
21.Test Vehicle Information	DDV(EM)	DDV(Evap)	EDV(EM)	EDV(Evap)
C/O or C/A MY & ID	<u>27MY VS-102</u>	<u>25MY SBVD-JS19</u>	<u>27MY VS-102</u>	<u>25MY SBV-JS19</u>
Vehicle Log Page(s)	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Zero Mile Book Page(s)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Maint Logs & Engr Eval	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

16-8 Traction Battery Label

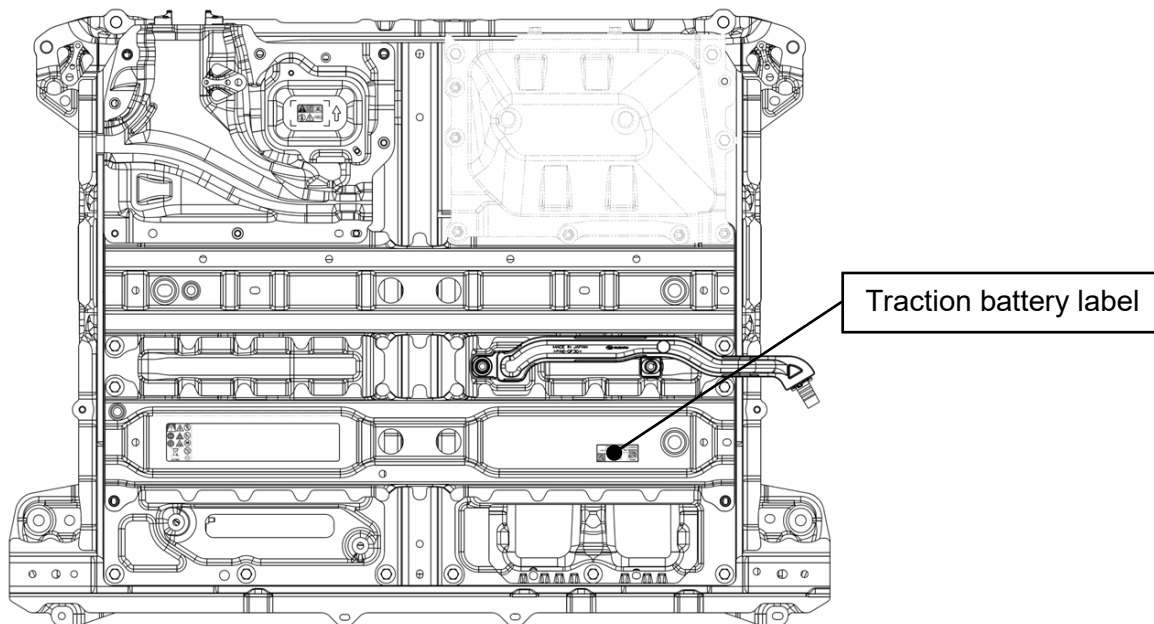
For FORESTER HYBRID / FORESTER WILDERNESS HYBRID / CROSSTREK HYBRID

1. Battery pack

Label design



Label location

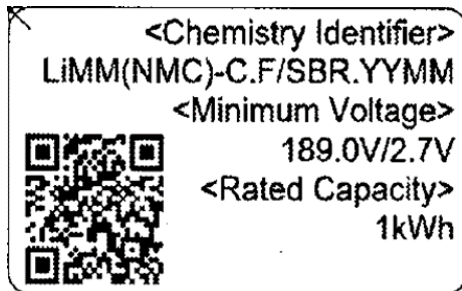


16-8 Traction Battery Label – cont.

For FORESTER HYBRID / FORESTER WILDERNESS HYBRID / CROSSTREK HYBRID

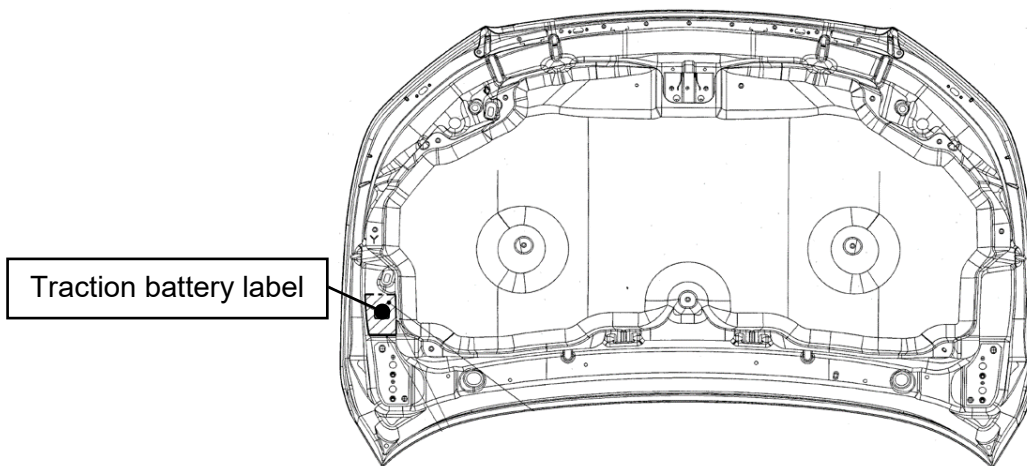
2. Under side of the engine hood

Label design

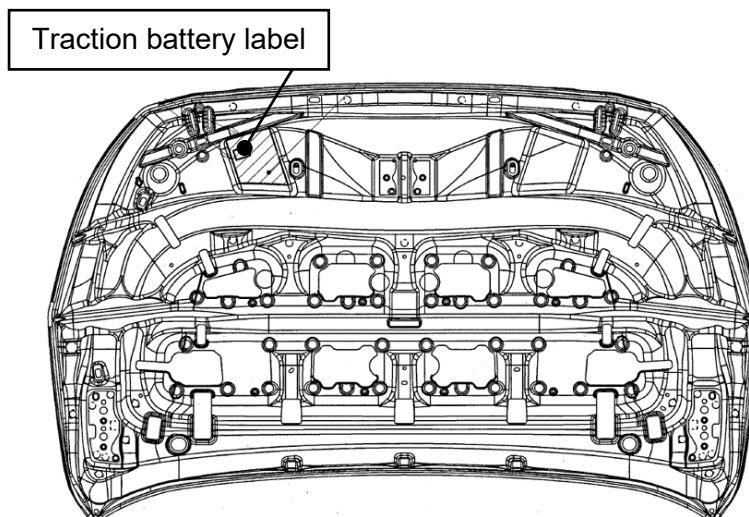


Label location

FORESTER HYBRID / FORESTER WILDERNESS HYBRID



CROSSTREK HYBRID



16-8 Traction Battery Label – cont.

For FORESTER HYBRID / FORESTER WILDERNESS HYBRID / CROSSTREK HYBRID

3. The battery sample website pages

<https://www.subaru.com/owners/battery-information.html>

Battery Information

Enter your Vehicle / Battery Identification Number to learn more about your vehicle's battery.
Battery details are provided for 2026 model year vehicles and later.

Language
English

VIN or BIN
JF2GUSGD2T8200022

Submit

[Privacy Policy](#)

Where do I find my VIN? +

Where do I find my electric vehicle BIN? +

Where do I find my hybrid vehicle BIN? +

16-8 Traction Battery Label – cont.

3. The battery sample website pages

Battery Information

2026 Crosstrek Sport Hybrid
VIN: JF2GUSGD2T8200022
[Look Up Another Battery](#)

Language
English

▼

Battery Information

+

Battery Safety & Recycling Information

+

Battery Safe Disposal Information

+

Battery Vehicle Information

+

Battery Recall Information

+

Vehicle Battery History

+

16-8 Traction Battery Label – cont.

3. The battery sample website pages

Battery Information

BIN

P600C82005FN01025061700007311100

Battery Chemistry

LiMM(NMC)-C.F

+

Battery Hazardous Substances

+

Minimum Battery Cell Voltage (V)

2.7

Minimum Battery Pack Voltage (V)

189

Rated Capacity (Ah)

4.5

Rated Capacity (kWh)

1

Count of individual cells in battery

70

16-8 Traction Battery Label – cont.

3. The battery sample website pages

Battery Information

BIN
P600C82005FN01025061700007311100

Battery Chemistry
LiMM(NMC)-C.F

System Chemistry
Li | Lithium ion

Cathode Material Identifier
MM | General mixed metal cathode

Cathode Sub-Identifier
(NMC) | Mixed metal oxide (Ni, Mn, Co) based

Anode Active Material Identifier
C | Graphite based

Miscellaneous Identifier
F | Flammable liquids

Manufacture Date
2025-06-17

Manufacturer
SUBARU CORPORATION

Battery Information

Battery Safety & Recycling Information

 Safety Data Sheet PDF

16-8 Traction Battery Label – cont.

3. The battery sample website pages

Battery Information	+
Battery Safety & Recycling Information	+
Battery Safe Disposal Information	—

Li-Ion Battery Disposal Statements

To Customer:
As a customer, never remove, disassemble, or attempt to service this unit. For servicing, contact a retailer, repairer, or qualified technician. Never use this unit in any application other than its intended use in this vehicle.

To Qualified Technicians:
For servicing or replacing this unit, follow the repair manual. After replacing this unit, perform battery diagnosis to correct ECU data.

To Transporters, Dismantlers:
For removing this unit, follow the dismantling manual. Contact a retailer or national distributor for the take back, recycling, transport and/or removal of this unit.

Battery Recycling Information:
Store, pack and transport this unit in accordance with all applicable laws. To request take back and recycling of this unit, contact a retailer or national distributor.

Residents in U.S.A.
Subaru Customer Advocacy
Subaru of America, Inc.
[1-800-SUBARU-3](tel:1-800-SUBARU-3)

Outside Continental U.S.
Puerto Rico
Trebol Motors Corp
[1-787-793-2828](tel:1-787-793-2828)

Canada
Subaru of Canada
[905-568-4959](tel:905-568-4959)

Guam
Prestige Automobiles
[671-633-2696](tel:671-633-2696)

Hawai
SERVCO - Subaru of Hawaii Customer Relations
[1-808-839-2273](tel:1-808-839-2273)
[1-888-272-5515](tel:1-888-272-5515) (Toll-free)

Mexico
Subamex, S.A. de C.V.
[011-52-81-100-18-900](tel:011-52-81-100-18-900)

16-8 Traction Battery Label – cont.

3. The battery sample website pages

Battery Information	+
Battery Safety & Recycling Information	+
Battery Safe Disposal Information	+
Battery Vehicle Information	—

VIN
JF2GUSGD2T8200022

Vehicle Make
Subaru

Vehicle Model
Crosstrek

Vehicle Trim
Sport Hybrid

Model Year
2026

Battery Recall Information	—
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There are currently no battery recalls

Vehicle Battery History	—
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BIN
P600C82005FN01025061700007311100

Date
2025-07-03

Place
USA

Status
Original

Section 17 Service of Process

Refer to Common Section, Section 17.