

Certification Summary Information Report

Manufacturer	Ferrari S.p.A.	Manufacturer Code	FEX
Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Certificate Number	VFEXV03.9T50-001	CARB Executive Order #	--
Certificate Issue Date	02/17/2026	Certificate Revision Date	--
Certificate Effective Date	02/17/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	02/13/2026 01:22:13 PM
Model Year	2027		

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	--	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VFEXGPGNNGDI	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	04/01/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VFEXV03.9T50
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	01/14/2026 05:09:21 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	--				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	175	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	3				
Mfr Evaporative/Refueling Family Comments	Tier 4 Evaporative/Refueling Family of Ferrari Amalfi.						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VFEXR017508T-001	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Ferrari S.p.A.	2 - Ferrari S.p.A.	170 - Ferrari Amalfi	Federal	2-Wheel Drive, Rear	Automated Manual	8	No
Engine Description							
Hybrid Type	--	Hybrid Description	Not applicable.				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	See application.				
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	See application.				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	5W40				
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N				

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Test Group	VFEXV03.9T50				Evaporative/Refueling Family	VFEXR017508T					
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	Other	Palladium + Rhodium	Ceramic	Monolith							
Mfr After Treatment Device (ATD) Comments											
See application.											
Direct Ozone Reduction (DOR) Device											
Not Equipped											
Mfr Emission Control Device Comments											
See application.											
Engine Configuration Number 1											
Engine Displacement (liters)		3.9		Engine Rated Horsepower		630					
Number of Inlet Valves Per Cylinder		2		Number of Exhaust Valves Per Cylinder		2					
Air Aspiration Method		Turbocharged		Number of Air Aspiration Devices		2					
Air Aspiration Device Configuration		Parallel		Charge Air Cooler Type		Liquid					
Air Aspiration Drive Method(s)		Mechanical									
Cylinder Deactivation		No									
Cylinder Deactivation Description		Not applicable.									
Variable Valve Timing		Yes									
Variable Valve Timing System Description		Variable camshaft timing for exhaust and inlet.									
Variable Valve Lift?		No									
Variable Valve Lift System Description		Not applicable.									
Number of Knock Sensors		1		Number of Air/Fuel Sensors		4					
Air/Fuel Sensor # 1 Type		Heated oxygen		Air/Fuel Sensor # 1 Description		--					
Air/Fuel Sensor # 2 Type		Heated oxygen		Air/Fuel Sensor # 2 Description		--					
Air/Fuel Sensor # 3 Type		Heated oxygen		Air/Fuel Sensor # 3 Description		--					
Air/Fuel Sensor # 4 Type		Heated oxygen		Air/Fuel Sensor # 4 Description		--					
Mfr Air/Fuel Sensor Comments		--									
Exhaust Gas Recirculation		--		Cooled Exhaust Gas Recirculation		--					
EGR Type		--		Exhaust Gas Recirculation Description if 'Other'		--					
Closed Loop Air Injection System		--									
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
Gasoline		VFEX10092636	VFEX10092639	VFEX10092638	VFEX10092634	VFEX10092637	--	16	--	22.5	--

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	VFEX10092636	VFEX10092639	VFEX10092638
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Gasoline	--	--	

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	40.915	0.175	0.023	12.416	-0.009	0.024	14.3
Cold CO	45.007	0.193	0.025	16.744	0.053	0.026	N/A
US06	40.915	0.175	0.023	12.416	-0.009	0.024	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Amalfi MY 2027

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092630	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	09/17/2025	Fuel	Gasoline
Fuel Batch ID	70811	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8874	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	461.324	--
FE BAG 1 (Bag 1 Fuel Economy)	19.202	19.202
CO2 BAG 2 (Bag 2 Carbon Dioxide)	433.815	--
FE BAG 2 (Bag 2 Fuel Economy)	20.527	20.527
CO2 BAG 3 (Bag 3 Carbon Dioxide)	371.233	--
FE BAG 3 (Bag 3 Fuel Economy)	23.955	23.955
METHANE (CH4 - Methane)	0.010999	--
CO (Carbon Monoxide)	0.591286	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	21.053	21.053
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0.000825	--
HC-NM (Non-methane Hydrocarbon)	0.014981	--
NMOG (Non-methane organic gases)	0.01558	--
PM (Particulate Matter)	0.000772	--
HC-TOTAL (Total Hydrocarbon)	0.024127	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	423	423

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Test Group		VFEXV03.9T50			Evaporative/Refueling Family				VFEXR017508T			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		422.338			--					
Manufacturer Test Comments		Amalfi - E0 - FTP75										
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	Other	CO	0.59	--	--	--	0	--	0.6	1.7	Pass
Fed	150,000 miles	Other	CREE	423	--	--	--	0	--	423	--	--
Fed	150,000 miles	Other	METHANE	0.011	--	--	--	0	--	0.011	0.030	Pass
Fed	150,000 miles	Other	N2O	0.0008	--	--	--	0	--	0.001	0.010	Pass
Fed	150,000 miles	Other	NMOG	0.0156	--	--	--	0	--	0.016	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0156	--	--	--	--	--	0.016	0.050	Pass
Fed	150,000 miles	Other	NOX	0	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Other	PM	0.0008	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.59	--	--	--	0	--	0.6	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0156	--	--	--	0	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0156	--	--	--	--	--	0.016	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0008	--	--	--	0	--	0.001	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092631	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	27 - Cold CO Premium (Tier 2)
Test Date	09/23/2025	Fuel	Gasoline
Fuel Batch ID	75053	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8966	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0147	--
CO (Carbon Monoxide)	0.91346	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	17.2476	17.2476
NOX (Nitrogen Oxide)	0.006	--
HC-NM (Non-methane Hydrocarbon)	0.0445	--
NMOG (Non-methane organic gases)	0.0458	--
HC-TOTAL (Total Hydrocarbon)	0.0582	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	509.22	--

Manufacturer Test Comments

MY 2027 Amalfi -E0 - Cold CO

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Test Group		VFEXV03.9T50			Evaporative/Refueling Family					VFEXR017508T		
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	Other	CO	0.91	--	--	--	0	--	0.9	10.0	Pass
Fed	150,000 miles	Other	HC-NM	0.04	--	--	--	0	--	0	0.3	Pass
Fed	150,000 miles	Other	NMOG	0.0458	--	--	--	0	--	0.046	999.999	Pass
Fed	150,000 miles	Other	NOX	0.006	--	--	--	0	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.91	--	--	--	0	--	0.9	10.0	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0458	--	--	--	0	--	0.046	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.006	--	--	--	0	--	0.006	999.999	Pass

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092634	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	07/30/2025	Fuel	Gasoline
Fuel Batch ID	72788	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7989	Odometer Units	K
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	Yes
Test Results			

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	583.093	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	2.414713	--
	FE BAG 1 (Bag 1 Fuel Economy)	14.988	14.988
	CH4 BAG 1 (Bag 1 Methane)	0.034478	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.301383	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	523.899	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.039178	--
	FE BAG 2 (Bag 2 Fuel Economy)	16.816	16.816
	CH4 BAG 2 (Bag 2 Methane)	0.003318	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	399.982	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.316731	--
	FE BAG 3 (Bag 3 Fuel Economy)	21.998	21.998
	CH4 BAG 3 (Bag 3 Methane)	0.015846	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.003115	--
	METHANE (CH4 - Methane)	0.013294	--
	CO (Carbon Monoxide)	0.607824	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
	DT-EER (Drive Trace Energy Economy Rating)	0	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
	MFR FE (Manufacturer Fuel Economy)	17.304	17.304
	HC-NM (Non-methane Hydrocarbon)	0.057593	--
	NMOG (Non-methane organic gases)	0.063307	--
	HC-TOTAL (Total Hydrocarbon)	0.0687	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	502.226	--
Manufacturer Test Comments	Amalfi - E10 - Cold CO		

Certification Summary Information Report

Test Group		VFEXV03.9T50				Evaporative/Refueling Family				VFEXR017508T		
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	Other	CO	0.61	--	--	--	0	--	0.6	10.0	Pass
Fed	150,000 miles	Other	HC-NM	0.06	--	--	--	0	--	0.1	0.3	Pass
Fed	150,000 miles	Other	NMOG	0.0633	--	--	--	0	--	0.063	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.61	--	--	--	0	--	0.6	10.0	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0633	--	--	--	0	--	0.063	999.999	Pass

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092635	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/27/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7475	Odometer Units	K
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	Yes
Test Results			

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	451.015	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	1.303436	--
	FE BAG 1 (Bag 1 Fuel Economy)	19.208	19.208
	CH4 BAG 1 (Bag 1 Methane)	0.033413	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.123956	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	419.483	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.096867	--
	FE BAG 2 (Bag 2 Fuel Economy)	20.758	20.758
	CH4 BAG 2 (Bag 2 Methane)	0.00582	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	362.421	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.438169	--
	FE BAG 3 (Bag 3 Fuel Economy)	23.985	23.985
	CH4 BAG 3 (Bag 3 Methane)	0.015686	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.00958	--
	METHANE (CH4 - Methane)	0.014249	--
	CO (Carbon Monoxide)	0.440685	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
	DT-EER (Drive Trace Energy Economy Rating)	0	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
	HCHO (Formaldehyde)	0.0003	--
	MFR FE (Manufacturer Fuel Economy)	21.187	21.187
	NOX (Nitrogen Oxide)	0.006021	--
	HC-NM (Non-methane Hydrocarbon)	0.025682	--
	NMOG (Non-methane organic gases)	0.02825	--
	HC-TOTAL (Total Hydrocarbon)	0.038465	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	410.335	--
Manufacturer Test Comments	Amalfi - E10 - 50F		

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Test Group		VFEXV03.9T50				Evaporative/Refueling Family				VFEXR017508T		
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 ULEV50	CO	0.44	--	--	--	0	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	HCHO	0.0003	--	--	--	0	--	0	0.016	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0282	--	--	--	0	--	0.028	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0342	--	--	--	--	--	0.034	0.100	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.006	--	--	--	0	--	0.006	999.999	Pass

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092636	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/28/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8358	Odometer Units	K
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	Yes
Test Results			

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Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	435.3	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	1.80833	--
	FE BAG 1 (Bag 1 Fuel Economy)	19.8694	19.8694
	CH4 BAG 1 (Bag 1 Methane)	0.0278	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0655	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	440.22	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0943	--
	FE BAG 2 (Bag 2 Fuel Economy)	19.7801	19.7801
	CH4 BAG 2 (Bag 2 Methane)	0.0044	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.002	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	364.46	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.5701	--
	FE BAG 3 (Bag 3 Fuel Economy)	23.8373	23.8373
	CH4 BAG 3 (Bag 3 Methane)	0.0144	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0118	--
	METHANE (CH4 - Methane)	0.012	--
	CO (Carbon Monoxide)	0.58007	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
	DT-EER (Drive Trace Energy Economy Rating)	0	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
	MFR FE (Manufacturer Fuel Economy)	20.7696	20.7696
	NOX (Nitrogen Oxide)	0.0043	--
	N2O (Nitrous Oxide)	0.0015	--
	HC-NM (Non-methane Hydrocarbon)	0.0162	--
	NMOG (Non-methane organic gases)	0.0178	--
	PM (Particulate Matter)	0.00035	--
	HC-TOTAL (Total Hydrocarbon)	0.0279	--
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
	Carbon-Related Exhaust Emissions	419	419
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	418.41	--

Manufacturer Test Comments

Amalfi - E10 - FTP

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Test Group		VFEXV03.9T50			Evaporative/Refueling Family					VFEXR017508T		
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	Other	CO	0.58	--	--	--	0	--	0.6	1.7	Pass
Fed	150,000 miles	Other	CO-COMP	0.48	--	--	--	0	--	0.5	4.2	Pass
Fed	150,000 miles	Other	CREE	419	--	--	--	0	--	419	--	--
Fed	150,000 miles	Other	METHANE	0.012	--	--	--	0	--	0.012	0.030	Pass
Fed	150,000 miles	Other	N2O	0.0015	--	--	--	0	--	0.002	0.010	Pass
Fed	150,000 miles	Other	NMOG	0.0178	--	--	--	0	--	0.018	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0221	--	--	--	--	--	0.022	0.050	Pass
Fed	150,000 miles	Other	NMOG+NOX-COMP	0.0215	--	--	--	0	--	0.022	0.050	Pass
Fed	150,000 miles	Other	NOX	0.0043	--	--	--	0	--	0.004	999.999	Pass
Fed	150,000 miles	Other	PM	0.0004	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.58	--	--	--	0	--	0.6	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0178	--	--	--	0	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0221	--	--	--	--	--	0.022	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0043	--	--	--	0	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0004	--	--	--	0	--	0	0.003	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	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092629	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	09/05/2025	Fuel	Gasoline
Fuel Batch ID	70811	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8565	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.002315	--
CO (Carbon Monoxide)	0.131581	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	32.193	32.193
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.000425	--
NMOG (Non-methane organic gases)	0.000442	--
HC-TOTAL (Total Hydrocarbon)	0.002428	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	274	274

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	274.228	--

Manufacturer Test Comments

Ferrari Amalfi - E0 - HWY

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family					VFEXR017508T		
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	Other	CREE	274	--	--	--	0	--	274	--	--
Fed	150,000 miles	Other	NMOG	0.0004	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0004	--	--	--	--	--	0	0.050	Pass
Fed	150,000 miles	Other	NOX	0	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0004	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0004	--	--	--	--	--	0	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0	--	--	--	0	--	0	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	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092637	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/28/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8236	Odometer Units	K
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	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.001187	--
CO (Carbon Monoxide)	0.086713	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	32.96	32.96
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.000519	--
NMOG (Non-methane organic gases)	0.000571	--
HC-TOTAL (Total Hydrocarbon)	0.001669	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	264	264

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	264.141	--

Manufacturer Test Comments Amalfi - HWY - E10

Certification Summary Information Report

Test Group		VFEXV03.9T50				Evaporative/Refueling Family				VFEXR017508T		
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	Other	CREE	264	--	--	--	0	--	264	--	--
Fed	150,000 miles	Other	NMOG	0.0006	--	--	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0006	--	--	--	--	--	0.001	0.050	Pass
Fed	150,000 miles	Other	NOX	0	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0006	--	--	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0006	--	--	--	--	--	0.001	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0	--	--	--	0	--	0	999.999	Pass

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

Test #	VFEX10092641	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	VFEX10092640	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/03/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9121	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2072	--

Manufacturer Test Comments Amalfi - 3-Day EVAP

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	HC-TOTAL-EQUIV	0.2072	0	0.207	0.25	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2072	0	0.207	0.25	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092644	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	VFEX10092640	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/03/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9121	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.002	--

Manufacturer Test Comments Amalfi - Running Losses EVAP

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	HC-TOTAL-EQUIV	0.002	0	0.002	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.002	0	0.002	0.05	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
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Test #	VFEX10092646	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	VFEX10092645	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/17/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7720	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC (Hydrocarbon for Running Loss and ORVR)	0.0418	--

Manufacturer Test Comments Amalfi - ORVR

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	HC	0.042	0	0.04	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.042	0	0.04	0.2	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092633	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	09/09/2025	Fuel	Gasoline
Fuel Batch ID	70811	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8648	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.011493	--
CO (Carbon Monoxide)	0.294757	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	21.969	21.969
NOX (Nitrogen Oxide)	0.022725	--
HC-NM (Non-methane Hydrocarbon)	0.015184	--
NMOG (Non-methane organic gases)	0.015791	--
PM (Particulate Matter)	0.000045	--
HC-TOTAL (Total Hydrocarbon)	0.026317	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	405.143	--

Manufacturer Test Comments

Amalfi - E0 - US06.

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family					VFEXR017508T		
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	Other	CO	0.2948	--	--	--	0	--	0.295	999.999	Pass
Fed	150,000 miles	Other	NMOG	0.0158	--	--	--	0	--	0.016	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0385	--	--	--	--	--	0.038	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0227	--	--	--	0	--	0.023	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.29	--	--	--	0	--	0.3	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0158	--	--	--	0	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0385	--	--	--	--	--	0.038	0.060	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0227	--	--	--	0	--	0.023	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0	--	--	--	0	--	0	0.003	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092639	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/16/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7312	Odometer Units	K
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	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.007487	--
CO (Carbon Monoxide)	0.265141	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	23.204	23.204
NOX (Nitrogen Oxide)	0.016465	--
HC-NM (Non-methane Hydrocarbon)	0.004938	--
NMOG (Non-methane organic gases)	0.005432	--
PM (Particulate Matter)	0.00033	--
HC-TOTAL (Total Hydrocarbon)	0.01219	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	374.943	--

Manufacturer Test Comments

Amalfi - E10 - US06

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family					VFEXR017508T		
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	Other	CO	0.2651	--	--	--	0	--	0.265	999.999	Pass
Fed	150,000 miles	Other	NMOG	0.0054	--	--	--	0	--	0.005	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0219	--	--	--	--	--	0.022	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0165	--	--	--	0	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.27	--	--	--	0	--	0.3	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0054	--	--	--	0	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0219	--	--	--	--	--	0.022	0.060	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0165	--	--	--	0	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0003	--	--	--	0	--	0	0.003	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092632	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	08/29/2025	Fuel	Gasoline
Fuel Batch ID	70811	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8376	Odometer Units	K
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	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.013581	--
CO (Carbon Monoxide)	0.318502	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	17.281	17.281
NOX (Nitrogen Oxide)	0.00017	--
HC-NM (Non-methane Hydrocarbon)	0.009581	--
NMOG (Non-methane organic gases)	0.009964	--
PM (Particulate Matter)	0.000173	--
HC-TOTAL (Total Hydrocarbon)	0.022737	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	510.69	--

Manufacturer Test Comments

Amalfi - E0 - SC03

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family					VFEXR017508T		
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	Other	CO	0.3185	--	--	--	0	--	0.318	999.999	Pass
Fed	150,000 miles	Other	NMOG	0.01	--	--	--	0	--	0.01	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0102	--	--	--	--	--	0.01	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0002	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.32	--	--	--	0	--	0.3	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.01	--	--	--	0	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0102	--	--	--	--	--	0.01	0.05	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0002	--	--	--	0	--	0	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092638	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/11/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7124	Odometer Units	K
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	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.013893	--
CO (Carbon Monoxide)	0.550921	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	16.118	16.118
NOX (Nitrogen Oxide)	0.000525	--
HC-NM (Non-methane Hydrocarbon)	0.018283	--
NMOG (Non-methane organic gases)	0.020111	--
PM (Particulate Matter)	0.000108	--
HC-TOTAL (Total Hydrocarbon)	0.031742	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	539.487	--

Manufacturer Test Comments

Amalfi- E10 - SC03

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family					VFEXR017508T		
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	Other	CO	0.5509	--	--	--	0	--	0.551	999.999	Pass
Fed	150,000 miles	Other	NMOG	0.0201	--	--	--	0	--	0.02	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0206	--	--	--	--	--	0.021	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0005	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.55	--	--	--	0	--	0.6	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0201	--	--	--	0	--	0.02	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0206	--	--	--	--	--	0.02	0.05	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0005	--	--	--	0	--	0	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Test #	VFEX10092642	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/09/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9121	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.01038	--

Manufacturer Test Comments Amalfi - Canister Bleed

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	HC-TOTAL-EQUIV	0.01	0	0.01	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.01	0	0.01	0.02	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
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Test #	VFEX10092643	Test Procedure	67 - Leak Test - Port Near Canister
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/15/2025	Fuel	Gasoline
Fuel Batch ID	066088	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	7667	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
LEAK-DIA (Effective Leak Diameter (inches))	0.000219	--

Manufacturer Test Comments Amalfi - Leak Test

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	LEAK-DIA	0	0	0	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	LEAK-DIA	0	0	0	0.02	Pass

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Fuel Properties			
Fuel Batch ID	70811	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	07/22/2025
Fuel Batch Calibration Effective Date	12/12/2024	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	0.741
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18405
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.868	Weight Fraction CO2	--
Fuel Batch ID	67414	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/10/2025
Fuel Batch Calibration Effective Date	07/05/2024	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	0.754
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)	41.775	Fuel Carbon Mass Fraction (E10)	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	75053	Fuel Calibration Number	1
Test Fuel Type	27 - Cold CO Premium (Tier 2)	Fuel Batch Calibration Date	06/02/2025
Fuel Batch Calibration Effective Date	05/28/2025	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	0.734
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18467
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	72788	Fuel Calibration Number	1
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	03/17/2025
Fuel Batch Calibration Effective Date	03/05/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.746
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)	41.471	Fuel Carbon Mass Fraction (E10)	0.826
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	066088	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/16/2024
Fuel Batch Calibration Effective Date	04/04/2024	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	0.754
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)	41.24	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	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
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Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Other
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
150,000 miles	CO	--	--	--	--	--	--	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0	0.030
150,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	California LEV-IV ULEV50
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	9.6
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.060
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family			VFEXR017508T		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50		
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	
150,000 miles	CO	--	--	--	--	--	--	0	1.7	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.016	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.100	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50		
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	
150,000 miles	CO	--	--	--	--	--	--	0	10.0	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Other		
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	999.999	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	
150,000 miles	PM-COMP	--	--	--	--	--	--	0	0.006	

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family			VFEXR017508T		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50		
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	1.7	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.05	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Other		
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	999.999	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Certification Summary Information Report

Test Group		VFEXV03.9T50			Evaporative/Refueling Family			VFEXR017508T		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Other		
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	
150,000 miles	CO	--	--	--	--	--	--	0	10.0	
150,000 miles	HC-NM	--	--	--	--	--	--	0	0.3	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50		
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	
150,000 miles	CO	--	--	--	--	--	--	0	1.7	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.003	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Other		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CREE	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T		
Evaporative/Refueling Family	VFEXR017508T	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.050	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Other		
Test Procedure	Leak Test - Port Near Canister				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Other		
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.050	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Other		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T		
Evaporative/Refueling Family	VFEXR017508T	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.250	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	Leak Test - Port Near Canister				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Other		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.250	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.02	0
Evaporative/Refueling Family	VFEXR017508T	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Other		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.250	0

Certification Summary Information Report

Test Group	VFEXV03.9T50		Evaporative/Refueling Family	VFEXR017508T	
Evaporative/Refueling Family	VFEXR017508T		Cert Region	Federal	
Cert/In-Use Code	Cert		Standard Level	Other	
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.02	0
Evaporative/Refueling Family	VFEXR017508T		Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)	
Cert/In-Use Code	Cert		Standard Level		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.250	0

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family	VFEXR017508T
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	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		
Certification Region			

Certification Summary Information Report

Test Group	VFEXV03.9T50	Evaporative/Refueling Family		VFEXR017508T
CA	California + CAA Section 177 states	FA	Federal	
Exhaust Emission Standard Level				
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125	

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L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70
Transmission Type Code				
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual	
A	Automatic	OT	Other	
AM	Automated Manual	SA	Semi-Automatic	
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
Drive System Code				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
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	