Certification Summary Information Report

Manufacturer	Ferrari S.p.A.	**Manufacturer Code**	FEX
Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y
Certificate Number	VFEXV02.9HEV-002	**CARB Executive Order #**	--
Certificate Issue Date	04/23/2026	**Certificate Revision Date**	--
Certificate Effective Date	04/23/2026	**Conditional Certificate**	No
CSI Revision #	--	**CSI Submission/Revision Date**	08/11/2026 11:25:04 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VFEXV02.9HEV	Evaporative/Refueling Family	VFEXR017506Y

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: Electric Motor

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

Drive Source #2: Combustion Engine

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

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**	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	09/01/2026	**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	Yes		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VFEXV02.9HEV
Test Group OBD Compliance Level	Partial - with deficiencies	**Number of Test Group OBD Deficiencies**	1
OBD Deficiencies Comments	Deficiency for SAE J1979-2 implementation.		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Evaporative/Refueling Family Information

Evaporative Summary Information Type	New	**Submission/Correction Date**	03/11/2026 02:00:11 PM
Integrated ORVR?	Yes	**Fuel(s)**	Electricity, Gasoline
Multiple Fuel Storage	Fuels Stored Separately		
Bladder Fuel Tank?	No		
Fuel Tank Material	Metal	**Fuel Tank Material Description**	Aluminum
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	--		

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
VFEXR017506Y-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.	250 - F80	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Ferrari S.p.A.	2 - Ferrari S.p.A.	250 - F80	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No

Engine Description

Hybrid Type	IC Engine/Electric Motor	**Hybrid Description**	See application.
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	6	**Mechanically Variable Compression Ratio Indicator**	N

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

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
3	Other	Uncoated	Ceramic	Monolith

Mfr After Treatment Device (ATD) Comments	ATD Type #3 = Uncoated Four-way Catalyst
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	See application.

Engine Configuration Number 1

Engine Displacement (liters)	2.9	**Engine Rated Horsepower**	888
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**	Air
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	2	**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	No	**Cooled Exhaust Gas Recirculation**	No
EGR Type	--	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	--		
Air Injection Type	Not Applicable	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group	VFEXV02.9HEV	Evaporative/Refueling Family	VFEXR017506Y

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	TFEX10090730	TFEX10090177	TFEX10090176	TFEX10090728	TFEX10090711	--	228.2	--	286.1	--
Electricity	TFEX10090730	TFEX10090177	TFEX10090176	TFEX10090728	TFEX10090711	--	--	--	--	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Electricity	TFEX10090730	TFEX10090177	TFEX10090176
Gasoline	TFEX10090730	TFEX10090177	TFEX10090176

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Gasoline	--	--

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	759	**Battery Energy Capacity**	3.02
Battery Specific Energy	58	**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)	3		
Motor/Generator Type 1	PMSM = Perm Magnet Synchronous	**Rated Motor/Generator Power**	105
Motor/Generator Type 2	PMSM = Perm Magnet Synchronous	**Rated Motor/Generator Power**	60
Motor/Generator Type 3	PMSM = Perm Magnet Synchronous	**Rated Motor/Generator Power**	105
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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Emission Data Vehicle Information

Vehicle ID / Configuration	295326 / 0	**Manufacturer Vehicle Configuration Number**	1
Original Test Group Name	TFEXV02.9HEV	**Original Evaporative/Refueling Family**	TFEXR017506Y
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Ferrari	**Represented Test Vehicle Model**	F250 KFA

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

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	1.3	**Odometer Correction Factor**	1
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Kilometers		
Engine Code	F163 CF	**Rated Horsepower**	888
Displacement (liters)	2.9		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Air	**Drive Mode While Testing**	All Wheel Drive
Shift Indicator Light Usage	Equipped, shifted by survey schedule	**Aged Emission Components**	150,000 (mi)
Curb Weight (lbs)	3814	**Equivalent Test Weight (pounds)**	4250
GVWR (lbs)	4288	**N/V Ratio**	17.1
Axle Ratio	3.07		
Transmission Type	Automated Manual	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VFEXV02.9HEV	Evaporative/Refueling Family	VFEXR017506Y

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	44.804	0.861	0.021	-8.273	0.298	0.024	18.7
Cold CO	49.278	0.947	0.023	-8.367	0.353	0.026	N/A
US06	44.804	0.861	0.021	-8.273	0.298	0.024	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments F250 KFA - MY 2026

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090186**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	27 - Cold CO Premium (Tier 2)
Test Date	02/27/2025	**Fuel**	Gasoline
Fuel Batch ID	49648	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8730	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	641.62	--
FE BAG 1 (Bag 1 Fuel Economy)	12.7442	12.7442
CO2 BAG 2 (Bag 2 Carbon Dioxide)	587.26	--
FE BAG 2 (Bag 2 Fuel Economy)	15.135	15.135
METHANE (CH4 - Methane)	0.0042	--
CO (Carbon Monoxide)	0.81987	--
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)	13.8393	13.8393
NOX (Nitrogen Oxide)	0.0043	--
HC-NM (Non-methane Hydrocarbon)	0.0799	--
HC-TOTAL (Total Hydrocarbon)	0.0795	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	641.62	--

Manufacturer Test Comments F250 KFA - Cold CO - E0 - Charge Sustaining

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

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	0.82	--	--	--	0	--	0.8	10.0	Pass
Fed	150,000 miles	Other	HC-NM	0.08	--	--	--	0	--	0.1	0.3	Pass
Fed	150,000 miles	Other	NOX	0.0043	--	--	--	0	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.82	--	--	--	0	--	0.8	10.0	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0043	--	--	--	0	--	0.004	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090728**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	03/26/2025	**Fuel**	Gasoline
Fuel Batch ID	50118	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9583	**Odometer Units**	K
4WD Test Dyno	Yes	**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)	618.545	--
FE BAG 1 (Bag 1 Fuel Economy)	13.868	13.868
CO2 BAG 2 (Bag 2 Carbon Dioxide)	592.902	--
FE BAG 2 (Bag 2 Fuel Economy)	14.504	14.504
CO (Carbon Monoxide)	0.732925	--
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)	14.231	14.231
HC-NM (Non-methane Hydrocarbon)	0.054178	--
NMOG (Non-methane organic gases)	0.055814	--
HC-TOTAL (Total Hydrocarbon)	0.059932	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	603.928	--

Manufacturer Test Comments Ferrari MY 2026 F250 KFA - E10 - Cold CO - 20F

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

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	0.73	--	--	--	0	--	0.7	10.0	Pass
Fed	150,000 miles	Other	HC-NM	0.05	--	--	--	0	--	0	0.3	Pass
Fed	150,000 miles	Other	NMOG	0.0558	--	--	--	0	--	0.056	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.73	--	--	--	0	--	0.7	10.0	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0558	--	--	--	0	--	0.056	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090729**	**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	04/04/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9766	**Odometer Units**	K
4WD Test Dyno	Yes	**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)	540.44	--
FE BAG 1 (Bag 1 Fuel Economy)	16.1598	16.1598
CO2 BAG 2 (Bag 2 Carbon Dioxide)	481.62	--
FE BAG 2 (Bag 2 Fuel Economy)	18.1656	18.1656
METHANE (CH4 - Methane)	0.0065	--
CO (Carbon Monoxide)	0.5592	--
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)	0.002	--
MFR FE (Manufacturer Fuel Economy)	17.2452	17.2452
NOX (Nitrogen Oxide)	0.0097	--
HC-NM (Non-methane Hydrocarbon)	0.035	--
NMOG (Non-methane organic gases)	0.0385	--
HC-TOTAL (Total Hydrocarbon)	0.0407	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	506.92	--

Manufacturer Test Comments Ferrari MY 2026 - F250 KFA - E10 FTP 50F

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-IV ULEV50	CO	0.56	--	--	--	0	--	0.6	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	HCHO	0.002	--	--	--	0	--	0.002	0.016	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0385	--	--	--	0	--	0.038	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0482	--	--	--	--	--	0.048	0.100	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0097	--	--	--	0	--	0.01	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090730**	**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	01/28/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7897	**Odometer Units**	K
4WD Test Dyno	Yes	**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)	509.355	--
FE BAG 1 (Bag 1 Fuel Economy)	17.153	17.153
CO2 BAG 2 (Bag 2 Carbon Dioxide)	456.834	--
FE BAG 2 (Bag 2 Fuel Economy)	19.151	19.151
METHANE (CH4 - Methane)	0.003685	--
CO (Carbon Monoxide)	0.519031	--
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)	18.096	18.096
NOX (Nitrogen Oxide)	0.005251	--
N2O (Nitrous Oxide)	0.000358	--
HC-NM (Non-methane Hydrocarbon)	0.028938	--
NMOG (Non-methane organic gases)	0.031808	--
PM (Particulate Matter)	0.000636	--
HC-TOTAL (Total Hydrocarbon)	0.032066	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	484	999

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	483.124	--

Manufacturer Test Comments Ferrari MY 2026 - F250 KFA - FTP - E10 Summer

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	CO	0.52	--	--	--	0	--	0.5	1.7	Pass
Fed	150,000 miles	Other	CO-COMP	0.34	--	--	--	0	--	0.3	4.2	Pass
Fed	150,000 miles	Other	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Other	NMOG	0.0318	--	--	--	0	--	0.032	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0371	--	--	--	--	--	0.037	0.050	Pass
Fed	150,000 miles	Other	NMOG+NOX-COMP	0.0212	--	--	--	0	--	0.021	0.050	Pass
Fed	150,000 miles	Other	NOX	0.0053	--	--	--	0	--	0.005	999.999	Pass
Fed	150,000 miles	Other	PM	0.0006	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.52	--	--	--	0	--	0.5	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0318	--	--	--	0	--	0.032	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0371	--	--	--	--	--	0.037	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0053	--	--	--	0	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0006	--	--	--	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.

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090734**	**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	03/06/2025	**Fuel**	Gasoline
Fuel Batch ID	48952	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8880	**Odometer Units**	K
4WD Test Dyno	Yes	**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)	775.672	--
FE BAG 1 (Bag 1 Fuel Economy)	17.258	17.258
CO2 BAG 2 (Bag 2 Carbon Dioxide)	467.594	--
FE BAG 2 (Bag 2 Fuel Economy)	18.936	18.936
METHANE (CH4 - Methane)	0.00497	--
CO (Carbon Monoxide)	0.525401	--
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)	18.215	18.215
NOX (Nitrogen Oxide)	0.005467	--
N2O (Nitrous Oxide)	0.000687	--
HC-NM (Non-methane Hydrocarbon)	0.0017419	--
NMOG (Non-methane organic gases)	0.0018116	--
PM (Particulate Matter)	0.000269	--
HC-TOTAL (Total Hydrocarbon)	0.0022233	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	487.78	526

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	525.401	--

Manufacturer Test Comments Ferrari MY2026 F250 KFA - FTP75 -

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	CO	0.53	--	--	--	0	--	0.5	1.7	Pass
Fed	150,000 miles	Other	CREE	526	--	--	--	0	--	526	--	--
Fed	150,000 miles	Other	NMOG	0.0018	--	--	--	0	--	0.002	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0073	--	--	--	--	--	0.007	0.050	Pass
Fed	150,000 miles	Other	NOX	0.0055	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Other	PM	0.0003	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.53	--	--	--	0	--	0.5	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0018	--	--	--	0	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0073	--	--	--	--	--	0.007	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0055	--	--	--	0	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0003	--	--	--	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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090710**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	03/05/2025	**Fuel**	Gasoline
Fuel Batch ID	48952	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8846	**Odometer Units**	K
4WD Test Dyno	Yes	**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)	0.00226	--
CO (Carbon Monoxide)	0.188984	--
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)	27.496	27.496
NOX (Nitrogen Oxide)	0.000141	--
HC-NM (Non-methane Hydrocarbon)	0.00139	--
NMOG (Non-methane organic gases)	0.0001425	--
HC-TOTAL (Total Hydrocarbon)	0.0003546	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	322	322

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	322.091	--

Manufacturer Test Comments Ferrari MY2026 F250 KFA - E0 - HWY

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

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	322	--	--	--	0	--	322	--	--
Fed	150,000 miles	Other	NMOG	0.0001	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0002	--	--	--	--	--	0	0.050	Pass
Fed	150,000 miles	Other	NOX	0.0001	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0001	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0002	--	--	--	--	--	0	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0001	--	--	--	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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090711**	**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	01/28/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7921	**Odometer Units**	K
4WD Test Dyno	Yes	**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	--
CO (Carbon Monoxide)	0.238288	--
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)	26.986	26.986
NOX (Nitrogen Oxide)	0.000027	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.000027	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	325	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	324.21	--

Manufacturer Test Comments Ferrari MY 2026 - F250 KFA - HWY - E10 Summer

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

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	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Other	NMOG	0	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0	--	--	--	--	--	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	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0	--	--	--	--	--	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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090180**	**Test Procedure**	**34 - Federal fuel 3-day evap**
Exhaust Test # for this Evap Test	TFEX10090179	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/28/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	8766	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1426	--

Manufacturer Test Comments F250 KFA - 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	0.1426	0	0.143	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1426	0	0.143	0.3	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090182**	**Test Procedure**	**23 - 2-day evap**
Exhaust Test # for this Evap Test	TFEX10090181	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	03/18/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9348	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1143	--

Manufacturer Test Comments F250 KFA - 2-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	0.1143	0	0.114	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1143	0	0.114	0.3	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090183**	**Test Procedure**	**32 - Federal Fuel Running Loss**
Exhaust Test # for this Evap Test	TFEX10090179	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/28/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	8766	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.003	--

Manufacturer Test Comments F250 KFA - 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	0.003	0	0.003	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.003	0	0.003	0.05	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090185**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	TFEX10090184	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/04/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	10203	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC (Hydrocarbon for Running Loss and ORVR)	0.0126	--

Manufacturer Test Comments F250 KFA - ORVR

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	HC	0.013	0	0.01	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.013	0	0.01	0.2	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090177**	**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	01/29/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8013	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0.0121	--
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)	20.3896	20.3896
NOX (Nitrogen Oxide)	0.0221	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
PM (Particulate Matter)	0.00085	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	430	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	429.57	--

Manufacturer Test Comments F250 KFA - US06 - E10 - Charge Sustaining

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

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	0.012	--	--	--	0	--	0.01	999.99	Pass
Fed	150,000 miles	Other	NMOG	0	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0221	--	--	--	--	--	0.022	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0221	--	--	--	0	--	0.022	999.999	Pass
Fed	150,000 miles	Other	PM	0.0008	--	--	--	0	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.01	--	--	--	0	--	0	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0221	--	--	--	--	--	0.022	0.060	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0221	--	--	--	0	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0008	--	--	--	0	--	0.001	0.003	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090709**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	01/30/2025	**Fuel**	Gasoline
Fuel Batch ID	48952	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8074	**Odometer Units**	K
4WD Test Dyno	Yes	**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)	0.00178	--
CO (Carbon Monoxide)	0.067951	--
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)	20.739	20.739
NOX (Nitrogen Oxide)	0.027388	--
HC-NM (Non-methane Hydrocarbon)	0.00157	--
NMOG (Non-methane organic gases)	0.001273	--
PM (Particulate Matter)	0.000862	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.028545	--
HC-TOTAL (Total Hydrocarbon)	0.00298	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	487.62	--

Manufacturer Test Comments Ferrari MY 2026 F250 KFA - US06 - E0

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

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	0.068	--	--	--	0	--	0.07	999.99	Pass
Fed	150,000 miles	Other	NMOG	0.0013	--	--	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0287	--	--	--	--	--	0.029	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0274	--	--	--	0	--	0.027	999.999	Pass
Fed	150,000 miles	Other	PM	0.0009	--	--	--	0	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.07	--	--	--	0	--	0.1	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0013	--	--	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0287	--	--	--	--	--	0.029	0.060	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0274	--	--	--	0	--	0.027	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0009	--	--	--	0	--	0.001	0.003	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090176**	**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	01/16/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7376	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.002562	--
CO (Carbon Monoxide)	0.428536	--
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)	16.101	16.101
NOX (Nitrogen Oxide)	0.005558	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.001364	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	543.339	--

Manufacturer Test Comments F250 KFA - SC03 - Charge Sustaining

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	CO	0.429	--	--	--	0	--	0.43	999.99	Pass
Fed	150,000 miles	Other	NMOG	0	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0056	--	--	--	--	--	0.006	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.43	--	--	--	0	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0056	--	--	--	--	--	0.01	0.05	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090733**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	02/20/2025	**Fuel**	Gasoline
Fuel Batch ID	48952	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8486	**Odometer Units**	K
4WD Test Dyno	Yes	**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)	0.0031	--
CO (Carbon Monoxide)	0.3068	--
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)	18.6349	18.6349
NOX (Nitrogen Oxide)	0.0056	--
HC-NM (Non-methane Hydrocarbon)	0.002	--
NMOG (Non-methane organic gases)	0.00222	--
PM (Particulate Matter)	0.00104	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0076	--
HC-TOTAL (Total Hydrocarbon)	0.005	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	474.75	--

Manufacturer Test Comments Ferrari MY 2026 - F250 KFA - E0 - SC03

Certification Summary Information Report

Test Group VFEXV02.9HEV **Evaporative/Refueling Family** VFEXR017506Y

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Other	CO	0.307	--	--	--	0	--	0.31	999.99	Pass
Fed	150,000 miles	Other	NMOG	0.0022	--	--	--	0	--	0.002	999.999	Pass
Fed	150,000 miles	Other	NMOG+NOX	0.0078	--	--	--	--	--	0.008	999.999	Pass
Fed	150,000 miles	Other	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.31	--	--	--	0	--	0.3	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0022	--	--	--	0	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0078	--	--	--	--	--	0.01	0.05	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090712**	**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	01/13/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9348	**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)	0.001664	--

Manufacturer Test Comments MY 2026 F250 HFA - Canister Bleed - Tier 3 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	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.002	0	0	0.02	Pass

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Test #	**TFEX10090178**	**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	02/11/2025	**Fuel**	Gasoline
Fuel Batch ID	66088	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Ferrari S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	8213	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
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))	0.00016	--

Manufacturer Test Comments Ferrari MY 2026 - F250 KFA - 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

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Fuel Properties

Fuel Batch ID	**66088**	**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)**	17730
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	**50118**	**Fuel Calibration Number**	**1**
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	**Fuel Batch Calibration Date**	02/12/2024
Fuel Batch Calibration Effective Date	01/17/2024	**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**	0.746
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17827
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.819	**Weight Fraction CO2**	--

Fuel Batch ID	**48952**	**Fuel Calibration Number**	**1**
Test Fuel Type	61 - Tier 2 Cert Gasoline	**Fuel Batch Calibration Date**	08/22/2023
Fuel Batch Calibration Effective Date	03/08/2022	**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**	0.739
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18479
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	**Weight Fraction CO2**	--

Fuel Batch ID	**49648**	**Fuel Calibration Number**	**1**
Test Fuel Type	27 - Cold CO Premium (Tier 2)	**Fuel Batch Calibration Date**	04/13/2022
Fuel Batch Calibration Effective Date	04/07/2022	**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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.74
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18403
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**	--

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

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**	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

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	999.99
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	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y
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**	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

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

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

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	999.99
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	--	--	--	--	--	--	0	0.006

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV 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

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

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	999.99
150,000 miles	NMOG	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	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**	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

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Evaporative/Refueling Family VFEXR017506Y
Cert Region California + CAA Section 177 states
Cert/In-Use Code Cert
Standard Level California LEV-IV Zero Evap (Option 2)
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 VFEXR017506Y
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	--	0.050	0

Evaporative/Refueling Family VFEXR017506Y
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 VFEXR017506Y
Cert Region California + CAA Section 177 states
Cert/In-Use Code Cert
Standard Level California LEV-IV Zero Evap (Option 2)
Test Procedure Evap Canister Bleed Test

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.02	0

Evaporative/Refueling Family VFEXR017506Y
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	--	0.300	0

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

Evaporative/Refueling Family	VFEXR017506Y	**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	VFEXR017506Y	**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	--	0.20	0

Evaporative/Refueling Family	VFEXR017506Y	**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	--	0.300	0

Evaporative/Refueling Family	VFEXR017506Y	**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	--	0.300	0

Evaporative/Refueling Family	VFEXR017506Y	**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

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y
Evaporative/Refueling Family	VFEXR017506Y	**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	--	0.300	0

Evaporative/Refueling Family	VFEXR017506Y	**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

Certification Summary Information Report

Test Group	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y

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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y
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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y
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	VFEXV02.9HEV	**Evaporative/Refueling Family**	VFEXR017506Y
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