Certification Summary Information Report

Manufacturer	Ferrari S.p.A.	**Manufacturer Code**	FEX
Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G
Certificate Number	VFEXV06.5G50-004	**CARB Executive Order #**	--
Certificate Issue Date	04/29/2026	**Certificate Revision Date**	--
Certificate Effective Date	04/29/2026	**Conditional Certificate**	No
CSI Revision #	--	**CSI Submission/Revision Date**	04/27/2026 02:42:23 PM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	--
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	--
Fuel Cell Indicator	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	No		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VFEXV06.5G50
Test Group OBD Compliance Level	Full - no deficiencies	**Number of Test Group OBD Deficiencies**	1
OBD Deficiencies Comments	1 deficiency for SAE J1979-2 implementation.		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Evaporative/Refueling Family Information

Evaporative Summary Information Type	New	**Submission/Correction Date**	03/11/2026 03:28:18 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	MY 2027 - Interim Tier 4 Evaporative/Refueling Family of 12Cilindri/Spider.		

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
VFEXR017512G-001	50 State	0.02	--

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

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.	182 - 12Cilindri OPT	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Ferrari S.p.A.	2 - Ferrari S.p.A.	167 - 12Cilindri	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Ferrari S.p.A.	2 - Ferrari S.p.A.	168 - 12Cilindri Spider	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Ferrari S.p.A.	2 - Ferrari S.p.A.	167 - 12Cilindri	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Ferrari S.p.A.	2 - Ferrari S.p.A.	182 - 12Cilindri OPT	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Ferrari S.p.A.	2 - Ferrari S.p.A.	168 - 12Cilindri Spider	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	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**	10W60
Number of Cylinders/Rotors	12	**Mechanically Variable Compression Ratio Indicator**	N

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Metal	Monolith
2	Other	Palladium + Rhodium	Metal	Monolith

Mfr After Treatment Device (ATD) Comments	ATD Type #2 = Four-way Catalyst
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	See application.

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Engine Configuration Number 1

Engine Displacement (liters)	6.5	**Engine Rated Horsepower**	709
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Naturally Aspirated	**Number of Air Aspiration Devices**	--
Air Aspiration Device Configuration	--	**Charge Air Cooler Type**	--
Air Aspiration Drive Method(s)	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**	--
EGR Type	--	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	--		
Air Injection Type	Secondary Air Injection	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Engine Configuration Number 2

Engine Displacement (liters)	6.5	**Engine Rated Horsepower**	814
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Naturally Aspirated	**Number of Air Aspiration Devices**	--
Air Aspiration Device Configuration	--	**Charge Air Cooler Type**	--
Air Aspiration Drive Method(s)	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**	--
EGR Type	--	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	--		
Air Injection Type	Secondary Air Injection	**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	PFEX10076161	PFEX10076163	PFEX10076164	PFEX10076166	PFEX10076162	--	228.2	--	286.1	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Gasoline	PFEX10076161	PFEX10076163	PFEX10076164

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Gasoline	--	--

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Emission Data Vehicle Information

Vehicle ID / Configuration	265109 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PFEXV06.5G50	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	Ferrari	**Represented Test Vehicle Model**	F175 AHA

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0.6	**Odometer Correction Factor**	1.04
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Kilometers		
Engine Code	F140 IA	**Rated Horsepower**	709
Displacement (liters)	6.5		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	--	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Equipped, shifted by survey schedule	**Aged Emission Components**	150,000 (mi)
Curb Weight (lbs)	4839	**Equivalent Test Weight (pounds)**	5250
GVWR (lbs)	6008	**N/V Ratio**	24.2
Axle Ratio	3.07		
Transmission Type	Automated Manual	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

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	53.7	0.598	0.026	19.873	0.692	0.024	19.8
Cold CO	59.7	0.664	0.029	25.853	0.706	0.027	N/A
US06	53.7	0.598	0.026	19.873	0.692	0.024	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments F175 AHA (V12) MY 2023 EDV - Config 0: A8,S&S=Off

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076166**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	04/28/2022	**Fuel**	Gasoline
Fuel Batch ID	FH030T	**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	8220	**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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	985.845	--
FE BAG 1 (Bag 1 Fuel Economy)	8.8	8.8
CO2 BAG 2 (Bag 2 Carbon Dioxide)	809.839	--
FE BAG 2 (Bag 2 Fuel Economy)	10.79	10.79
CO2 BAG 3 (Bag 3 Carbon Dioxide)	647.396	--
FE BAG 3 (Bag 3 Fuel Economy)	13.48	13.48
CO (Carbon Monoxide)	1.021108	--
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)	10.874154	10.874154
HC-NM (Non-methane Hydrocarbon)	0.14417	--
NMOG (Non-methane organic gases)	0.159	--
HC-TOTAL (Total Hydrocarbon)	0.164505	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	801.67202	--

Manufacturer Test Comments MY 2023 - F175 AHA - E10 - Cold CO - 20F - A8 / Config 0:S&S OFF

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	1.02	--	--	--	0	--	1	10.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	HC-NM	0.14	--	--	--	0	--	0.1	0.3	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.159	--	--	--	0	--	0.159	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	1.02	--	--	--	0	--	1	10.0	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.159	--	--	--	0	--	0.159	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076164**	**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	05/02/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	8238	**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)	0.008734	--
CO (Carbon Monoxide)	0.340607	--
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)	10.970287	10.970287
NOX (Nitrogen Oxide)	0.001729	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
PM (Particulate Matter)	0.000143	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.006222	--
HC-TOTAL (Total Hydrocarbon)	0.004492	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	797.74024	--

Manufacturer Test Comments MY 2023 F175 AHA - SC03 - E10 Summer - Config 0: A8 w/S&S=Off.

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

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	Federal Tier 3 Bin 50	CO	0.3406	--	--	--	0	--	0.341	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0017	--	--	--	--	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0017	--	--	--	0	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.34	--	--	--	0	--	0.3	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	0.0017	--	--	--	--	--	0	0.05	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0017	--	--	--	0	--	0.002	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Emission Data Vehicle Information

Vehicle ID / Configuration	265109 / 1	**Manufacturer Vehicle Configuration Number**	1
Original Test Group Name	PFEXV06.5G50	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	Ferrari	**Represented Test Vehicle Model**	F175 AHA

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0.6	**Odometer Correction Factor**	1.04
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Kilometers		
Engine Code	F140 IA	**Rated Horsepower**	709
Displacement (liters)	6.5		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	--	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Equipped, shifted by survey schedule	**Aged Emission Components**	150,000 (mi)
Curb Weight (lbs)	4839	**Equivalent Test Weight (pounds)**	5250
GVWR (lbs)	6008	**N/V Ratio**	24.2
Axle Ratio	3.07		
Transmission Type	Automated Manual	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

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	53.7	0.598	0.026	19.873	0.692	0.024	19.8
Cold CO	59.7	0.664	0.029	25.853	0.706	0.027	N/A
US06	53.7	0.598	0.026	19.873	0.692	0.024	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments F175 AHA (V12) MY 2023 EDV - Config 1: A8,S&S=Off

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076122**	**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	05/09/2022	**Fuel**	Gasoline
Fuel Batch ID	039633	**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	8517	**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)	724.417	--
FE BAG 1 (Bag 1 Fuel Economy)	12.14	12.14
CO2 BAG 2 (Bag 2 Carbon Dioxide)	711.641	--
FE BAG 2 (Bag 2 Fuel Economy)	12.41	12.41
CO2 BAG 3 (Bag 3 Carbon Dioxide)	586.734	--
FE BAG 3 (Bag 3 Fuel Economy)	15.03	15.03
METHANE (CH4 - Methane)	0.009825	--
CO (Carbon Monoxide)	0.662994	--
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)	12.97521	12.97521
NOX (Nitrogen Oxide)	0.008849	--
N2O (Nitrous Oxide)	0.001607	--
HC-NM (Non-methane Hydrocarbon)	0.026668	--
NMOG (Non-methane organic gases)	0.028	--
PM (Particulate Matter)	0	--
HC-TOTAL (Total Hydrocarbon)	0.03529	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	681	681

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	679.7144	--

Manufacturer Test Comments MY 2023 F175 AHA - FTP75 - Config 1: A8 w/S&S=On.

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	Federal Tier 3 Bin 50	CO	0.66	--	--	--	0	--	0.7	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	681	--	--	--	0	--	681	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.028	--	--	--	0	--	0.028	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0368	--	--	--	--	--	0.037	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0088	--	--	--	0	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.66	--	--	--	0	--	0.7	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.028	--	--	--	0	--	0.028	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0368	--	--	--	--	--	0.037	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0088	--	--	--	0	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0	--	--	--	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076161**	**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	04/01/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	7816	**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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	652.248	--
FE BAG 1 (Bag 1 Fuel Economy)	13.38	13.38
CO2 BAG 2 (Bag 2 Carbon Dioxide)	637.937	--
FE BAG 2 (Bag 2 Fuel Economy)	13.72	13.72
CO2 BAG 3 (Bag 3 Carbon Dioxide)	538.896	--
FE BAG 3 (Bag 3 Fuel Economy)	16.24	16.24
METHANE (CH4 - Methane)	0.005035	--
CO (Carbon Monoxide)	0.414953	--
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)	14.253955	14.253955
NOX (Nitrogen Oxide)	0.013566	--
N2O (Nitrous Oxide)	0.001405	--
HC-NM (Non-methane Hydrocarbon)	0.017984	--
NMOG (Non-methane organic gases)	0.02	--
PM (Particulate Matter)	0.000198	--
HC-TOTAL (Total Hydrocarbon)	0.022114	--

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	614	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	613.66885	--

Manufacturer Test Comments F175 AHA - FTP75 - E10 Summer; A8/S&S: On

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.41	--	--	--	0	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.38	--	--	--	0	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.02	--	--	--	0	--	0.02	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0336	--	--	--	--	--	0.034	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0154	--	--	--	0	--	0.015	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0136	--	--	--	0	--	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0002	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.41	--	--	--	0	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.02	--	--	--	0	--	0.02	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0336	--	--	--	--	--	0.034	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0136	--	--	--	0	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0002	--	--	--	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076165**	**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	04/05/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	7971	**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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	726.488	--
FE BAG 1 (Bag 1 Fuel Economy)	12.02	12.02
CO2 BAG 2 (Bag 2 Carbon Dioxide)	659.144	--
FE BAG 2 (Bag 2 Fuel Economy)	13.28	13.28
CO2 BAG 3 (Bag 3 Carbon Dioxide)	550.237	--
FE BAG 3 (Bag 3 Fuel Economy)	15.9	15.9
METHANE (CH4 - Methane)	0.008227	--
CO (Carbon Monoxide)	0.468287	--
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)	0.001216	--
MFR FE (Manufacturer Fuel Economy)	13.59566	13.59566
NOX (Nitrogen Oxide)	0.016276	--
HC-NM (Non-methane Hydrocarbon)	0.03179	--
NMOG (Non-methane organic gases)	0.035	--
HC-TOTAL (Total Hydrocarbon)	0.038651	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	643.28314	--

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

Manufacturer Test Comments MY 2023 - F175 AHA - E10 - Cold CO - FTP p50F - A8 / Config 1: S&S On

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	0.47	--	--	--	0	--	0.5	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	HCHO	0.0012	--	--	--	0	--	0.001	0.016	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.035	--	--	--	0	--	0.035	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0513	--	--	--	--	--	0.051	0.100	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0163	--	--	--	0	--	0.016	999.999	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076201**	**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	06/17/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	9318	**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)
METHANE (CH4 - Methane)	0.015797	--
CO (Carbon Monoxide)	0.670587	--
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)	12.37084	12.37084
NOX (Nitrogen Oxide)	0.008953	--
N2O (Nitrous Oxide)	0.000599	--
HC-NM (Non-methane Hydrocarbon)	0.017938	--
NMOG (Non-methane organic gases)	0.02	--
PM (Particulate Matter)	0.001044	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.042185	--
HC-TOTAL (Total Hydrocarbon)	0.033232	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	708	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	706.757	--

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

Manufacturer Test Comments MY 2023 F175 AHA - FTP Pre-Test for 2-Day EVAP - S&S:On

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	Federal Tier 3 Bin 50	CO	0.67	--	--	--	0	--	0.7	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.02	--	--	--	0	--	0.02	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.029	--	--	--	--	--	0.029	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.009	--	--	--	0	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.001	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.67	--	--	--	0	--	0.7	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.02	--	--	--	0	--	0.02	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.029	--	--	--	--	--	0.029	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.009	--	--	--	0	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.001	--	--	--	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076204**	**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	06/16/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	9278	**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)
METHANE (CH4 - Methane)	0.013805	--
CO (Carbon Monoxide)	0.767205	--
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)	12.83155	12.83155
NOX (Nitrogen Oxide)	0.008749	--
N2O (Nitrous Oxide)	0.000866	--
HC-NM (Non-methane Hydrocarbon)	0.020842	--
NMOG (Non-methane organic gases)	0.023	--
PM (Particulate Matter)	0.000835	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.041384	--
HC-TOTAL (Total Hydrocarbon)	0.032635	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	682	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	681.1895	--

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

Manufacturer Test Comments MY 2023 Ferrari F175 AHA - FTP Pre-Test for ORVR EVAP; S&S:On

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.77	--	--	--	0	--	0.8	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.023	--	--	--	0	--	0.023	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0317	--	--	--	--	--	0.032	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0087	--	--	--	0	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0008	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.77	--	--	--	0	--	0.8	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.023	--	--	--	0	--	0.023	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0317	--	--	--	--	--	0.032	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0087	--	--	--	0	--	0.009	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.

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076205**	**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	06/01/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	9123	**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)
METHANE (CH4 - Methane)	0.01014	--
CO (Carbon Monoxide)	0.556459	--
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)	13.06726	13.06726
NOX (Nitrogen Oxide)	0.010322	--
N2O (Nitrous Oxide)	0.000875	--
HC-NM (Non-methane Hydrocarbon)	0.01734	--
NMOG (Non-methane organic gases)	0.019	--
PM (Particulate Matter)	0.000368	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.036664	--
HC-TOTAL (Total Hydrocarbon)	0.026343	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	670	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	669.2291	--

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

Manufacturer Test Comments MY 2023 Ferrari F175 AHA - FTP Pre-Test for 3-Day EVAP; S&S=On

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.56	--	--	--	0	--	0.6	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.019	--	--	--	0	--	0.019	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0293	--	--	--	--	--	0.029	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0103	--	--	--	0	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0004	--	--	--	0	--	0	0.003	Pass
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	NMOG	0.019	--	--	--	0	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0293	--	--	--	--	--	0.029	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0103	--	--	--	0	--	0.01	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076123**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	05/09/2022	**Fuel**	Gasoline
Fuel Batch ID	039633	**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	8535	**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)	420.53	--
METHANE (CH4 - Methane)	0.008592	--
CO (Carbon Monoxide)	0.116421	--
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)	20.99727	20.99727
NOX (Nitrogen Oxide)	0.009315	--
HC-NM (Non-methane Hydrocarbon)	0.00056	--
NMOG (Non-methane organic gases)	0.001	--
HC-TOTAL (Total Hydrocarbon)	0.008878	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	421	421

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	420.5297	--

Manufacturer Test Comments MY 2023 F175 AHA - HWY - Config 1: A8 w/S&S=On.

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	421	--	--	--	0	--	421	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.001	--	--	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0103	--	--	--	--	--	0.01	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0093	--	--	--	0	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.001	--	--	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0103	--	--	--	--	--	0.01	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0093	--	--	--	0	--	0.009	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076162**	**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	04/02/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	7834	**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)
METHANE (CH4 - Methane)	0.000768	--
CO (Carbon Monoxide)	0.104523	--
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)	21.724969	21.724969
NOX (Nitrogen Oxide)	0.022311	--
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)	0.022311	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	403	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	402.94156	--

Manufacturer Test Comments MY 2023 - F175 AHA - HWY - E10 Summer; A8/S&S: On

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0	--	--	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0223	--	--	--	--	--	0.022	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0223	--	--	--	0	--	0.022	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	0.0223	--	--	--	--	--	0.022	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0223	--	--	--	0	--	0.022	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**PFEX10076163**	**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	04/02/2022	**Fuel**	Gasoline
Fuel Batch ID	043987	**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	7867	**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)	0.009323	--
CO (Carbon Monoxide)	0.411501	--
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)	16.205842	16.205842
NOX (Nitrogen Oxide)	0.004829	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0.006	--
PM (Particulate Matter)	0.000123	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.019642	--
HC-TOTAL (Total Hydrocarbon)	0.014813	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	539.69748	--

Manufacturer Test Comments MY 2023 F175 AHA - E10 - US06 - Config 1: A8 w/S&S=On.

Certification Summary Information Report

Test Group VFEXV06.5G50 **Evaporative/Refueling Family** VFEXR017512G

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	Federal Tier 3 Bin 50	CO	0.4115	--	--	--	0	--	0.412	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.006	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0108	--	--	--	--	--	0.011	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0048	--	--	--	0	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.41	--	--	--	0	--	0.4	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.006	--	--	--	0	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0108	--	--	--	--	--	0.011	0.060	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0048	--	--	--	0	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0001	--	--	--	0	--	0	0.003	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Emission Data Vehicle Information

Vehicle ID / Configuration	284600 / 1	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	SFEXV06.5G50	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Ferrari	**Represented Test Vehicle Model**	F167 ABA

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
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	F140 HD	**Rated Horsepower**	814
Displacement (liters)	6.5		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	--	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Equipped, shifted by survey schedule	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	3913	**Equivalent Test Weight (pounds)**	4250
GVWR (lbs)	4586	**N/V Ratio**	33.8
Axle Ratio	3.07		
Transmission Type	Automated Manual	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

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	50.717	0.634	0.017	16.703	0.716	0.015	16.7
Cold CO	56.36	0.704	0.019	21.132	0.796	0.017	N/A
US06	50.717	0.634	0.017	16.703	0.716	0.015	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments F167 ABA - MY 2025 - Configuration 1: A8, S&S=On.

Test #	**SFEX10084228**	**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	10/05/2023	**Fuel**	Gasoline
Fuel Batch ID	43987	**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	8635	**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)	0.00694	--

Manufacturer Test Comments MY 2025 F167 ABA - 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	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.007	0	0.01	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.007	0	0.01	0.02	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Emission Data Vehicle Information

Vehicle ID / Configuration	301636 / 0	**Manufacturer Vehicle Configuration Number**	1
Original Test Group Name	SFEXV06.5G50	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Ferrari	**Represented Test Vehicle Model**	12Cilindri Spider

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
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	F140 HD	**Rated Horsepower**	814
Displacement (liters)	6.5		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	--	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Equipped, shifted by survey schedule	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4046	**Equivalent Test Weight (pounds)**	4500
GVWR (lbs)	4696	**N/V Ratio**	33.8
Axle Ratio	3.07		
Transmission Type	Automated Manual	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

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	52.92	0.401	0.02	17.895	0.492	0.018	16.4
Cold CO	58.81	0.445	0.022	19.626	0.606	0.02	N/A
US06	52.92	0.401	0.02	17.895	0.492	0.018	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments F167 ADA - MY 2025 - Configuration 1: A8, S&S=On.

Test #	**SFEX10087073**	**Test Procedure**	**23 - 2-day evap**
Exhaust Test # for this Evap Test	SFEX10087058	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/30/2024	**Fuel**	Gasoline
Fuel Batch ID	60626	**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	7429	**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)	0.2108	--

Manufacturer Test Comments Ferrari MY 2025 - F167 ADA - 2-Day EVAP

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2108	0	0.211	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2108	0	0.211	0.3	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**SFEX10087633**	**Test Procedure**	**34 - Federal fuel 3-day evap**
Exhaust Test # for this Evap Test	SFEX10087624	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/17/2024	**Fuel**	Gasoline
Fuel Batch ID	13388	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Aged components installed In the emission data vehicle
Verify Test Lab ID	Maserati Test Laboratory		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9129	**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)	0.2202	--

Manufacturer Test Comments Ferrari MY 2025 - F167 ADA - 3-Day EVAP

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2202	0	0.22	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2202	0	0.22	0.3	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**SFEX10087061**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	SFEX10087060	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	05/07/2024	**Fuel**	Gasoline
Fuel Batch ID	60626	**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	--		
Test Start Odometer Reading	7459	**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)	0.0066	--

Manufacturer Test Comments Ferrari MY 2025 - F167 ADA - ORVR

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.007	0	0.01	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.01	0	0	0.2	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Test #	**SFEX10087059**	**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	05/08/2024	**Fuel**	Gasoline
Fuel Batch ID	60626	**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	7459	**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))	0.00019	--

Manufacturer Test Comments Ferrari MY 2025 - F167 ADA - Leak Test

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Emission Data Vehicle Information

Vehicle ID / Configuration	301636 / 1	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	SFEXV06.5G50	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Ferrari	**Represented Test Vehicle Model**	12Cilindri Spider

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
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	F140 HD	**Rated Horsepower**	814
Displacement (liters)	6.5		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	--	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Equipped, shifted by survey schedule	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4046	**Equivalent Test Weight (pounds)**	4500
GVWR (lbs)	4696	**N/V Ratio**	33.8
Axle Ratio	3.07		
Transmission Type	Automated Manual	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

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	52.92	0.401	0.02	17.895	0.492	0.018	16.4
Cold CO	58.81	0.445	0.022	19.626	0.606	0.02	N/A
US06	52.92	0.401	0.02	17.895	0.492	0.018	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments F167 ADA - MY 2025 - Configuration 0: A8, S&S=On.

Test #	**SFEX10087627**	**Test Procedure**	**32 - Federal Fuel Running Loss**
Exhaust Test # for this Evap Test	SFEX10087624	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/17/2024	**Fuel**	Gasoline
Fuel Batch ID	13388	**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	9129	**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)	0.00216	--

Manufacturer Test Comments Ferrari MY 2025 - F167 ADA - Running Losses EVAP

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.0022	0	0.002	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0022	0	0.002	0.05	Pass

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Fuel Properties

Fuel Batch ID	**039633**	**Fuel Calibration Number**	**1**
Test Fuel Type	61 - Tier 2 Cert Gasoline	**Fuel Batch Calibration Date**	02/12/2021
Fuel Batch Calibration Effective Date	03/25/2021	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.736
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18500
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.864	**Weight Fraction CO2**	--

Fuel Batch ID	**043987**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	09/02/2021
Fuel Batch Calibration Effective Date	01/12/2022	**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**	0.752
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17807
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	**Weight Fraction CO2**	--

Fuel Batch ID	**13388**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	01/29/2024
Fuel Batch Calibration Effective Date	01/29/2024	**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**	0.733
Fuel Ethanol Volume Percent (%)	9.5	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18293
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.835	**Weight Fraction CO2**	--

Fuel Batch ID	**FH030T**	**Fuel Calibration Number**	**1**
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	**Fuel Batch Calibration Date**	08/03/2017
Fuel Batch Calibration Effective Date	08/24/2017	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.749
Fuel Ethanol Volume Percent (%)	10.1	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17756
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	**Weight Fraction CO2**	--
Fuel Batch ID	**60626**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	02/02/2024
Fuel Batch Calibration Effective Date	07/27/2023	**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**	0.753
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17936
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	**Weight Fraction CO2**	--
Fuel Batch ID	**43987**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	08/22/2022
Fuel Batch Calibration Effective Date	09/02/2021	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.752
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17807
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

Consolidated List of Standards

Exhaust Standards

Cert Region California + CAA Section 177 states
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Cert
Standard Level California LEV-IV ULEV50
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 Federal
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Cert
Standard Level Federal Tier 3 Bin 50
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

Cert Region Federal
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Cert
Standard Level Federal Tier 3 Bin 50
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

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 50
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	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	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

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G
Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 50
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	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**	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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 50
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

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**	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

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Evaporative/Refueling Family	VFEXR017512G	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

Evaporative/Refueling Family	VFEXR017512G	**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	--	0.2	0

Evaporative/Refueling Family	VFEXR017512G	**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	VFEXR017512G	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Evap Canister Bleed Test		

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

Evaporative/Refueling Family	VFEXR017512G	**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

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Evaporative/Refueling Family	VFEXR017512G	**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	VFEXR017512G	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.050	0

Evaporative/Refueling Family	VFEXR017512G	**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	VFEXR017512G	**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	VFEXR017512G	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
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

Certification Summary Information Report

Test Group	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G

Evaporative/Refueling Family	VFEXR017512G	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

Evaporative/Refueling Family	VFEXR017512G	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0

Certification Summary Information Report

Test Group	VFEXV06.5G50	Evaporative/Refueling Family	VFEXR017512G

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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G
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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G
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	VFEXV06.5G50	**Evaporative/Refueling Family**	VFEXR017512G
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