PART 1 APPLICATION FOR EMISSIONS CERTIFICATION

MODEL YEAR: 2027

TEST GROUP: VMLNV04.0M14

DURABILITY GROUP: VMLNGPGNN003

EVAPORATIVE FAMILY: VMLNR0164M14

DURABILITY GROUP DESCRIPTION: FOUR STROKE, OTTO CYCLE, GASOLINE-FUELLED, MULTIPOINT PORT FUEL INJECTION

CATALYST CODE: 003

3-WAY PD/RH COATED SUBSTRATE

TEST GROUP DESCRIPTION: 4.0 LITRE V8 TWIN TURBO

2TWC(2)/2WR-HO2S/2HO2S/SFI/2AIR/2TC/2CAC

APPLICABLE STANDARDS

EXHAUST: FEDERAL TIER3 BIN 125

CARB LEV4 ULEV125

EVAPORATIVE: FEDERAL TIER3 / CARB LEV4 (Option 2) with FEL

CARLINES 146: 750S COUPE
147: 750S SPIDER
148: 750S COUPE LE MANS

Category	EDV	Test	Test Number
Exhaust	SBM14FCA9JW990104	FTP75	KMLN10070875
			JMLN10080948
		HWFET	KMLN10070876
		US06	KMLN10070892
		SC03	KMLN10070886
		FTP50	MMLN10066302
	SBM14AAA8HW990014	FTP20	KMLN10080999
Evaporative	SBM14AAA8HW990014	2DD	KMLN10080952
		3DD	KMLN10070962
		RUNNING LOSS	KMLN10070963
		ORVR	KMLN10080949
		BETP	NMLN10070954

Contact: Peter Montague [+44 148 326 1839]
Nicolas Brown [+1 212 393 4781]

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Issue	Date	Changes
00	20th February 2026	Initial Issue

1 COMMUNICATION

Authorised representative situated in the United States

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Nicholas Brown	Director - The Americas	nicolas.brown@mclaren.com	+1 212 393 4781

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TX 75019

Authorised representatives situated in the manufacturer's home office:

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Address: McLaren Automotive Limited
McLaren Technology Centre
Chertsey Road
Woking
Surrey
GU21 4YH
United Kingdom

Corporate name and address that should appear on the certificate of conformity:

Address: McLaren Automotive Limited
McLaren Technology Centre
Chertsey Road
Woking
Surrey
GU21 4YH
United Kingdom

The certificate of conformity should be issued to:

Name	Title	Email	Telephone
Peter Montague	Head of Homologation	peter.montague@mclaren.com	+44 148 326 1839

2 DURABILITY GROUP

2.1 Durability Group Description

Durability Group Name:	VMLNGPGNN003
Carlines within Durability Group	146: 750S Coupe
	147: 750S Spider
	148: 750S Le Mans
Combustion Cycle:	Four stroke, Otto Cycle
Engine Type:	Piston
Fuel:	Gasoline
Basic Fuel Metering:	Multipoint Port Fuel Injection
Catalyst Construction:	Coated metal substrate monolith with stainless steel casing
	1 starter and 1 secondary catalyst per bank
	Starter: 0.8829 litre, Pd 19:1 Rh 200g/ft^3
	Secondary: 1.11 litre, Pd 4:1 Rh 25g/ft^3
Precious metals in catalyst:	Palladium and Rhodium 3-way
Grouping statistic:	3.613 g/litre

3 EVAPORATIVE / REFUELLING FAMILY

3.1 Evaporative Family Description

Evaporative / Refuelling Family Name:	VMLNR0164M14
Type of vapour storage:	Charcoal canister
Basic canister design:	3-chamber, closed bottom with scrubber filter
Working capacity:	163.8 g
System configuration:	Single canister
Canister geometry, construction & materials:	Total volume: 3.231 litres BAX1100 carbon (pellet) PA66-30GF Nylon casing
Fuel system:	Non-return
Type of refuelling emission control system:	Integrated with evaporative control system
Fill pipe seal mechanism:	Mechanical seal
Vapour control system:	Open system
Purge control system:	PWM valve control
Vapour hose material:	Cadbar multi-layer (NBR x2, CPT LP100, Aramid and CM)
Fuel tank material:	Aluminium (1050-H24)

4 DURABILITY INFORMATION

4.1 Durability Information

McLaren is a Small Volume Manufacturer as agreed with EPA and has used Assigned Deterioration Factors (DFs) in accordance with the small volume provisions of 40 CFR 86.1838-01(b)(1), as detailed in 40 CFR 86.1826-01.

The EPA Tier 3 DFs are detailed in CD-2023-01 dated 30th January 2023.

The Tier 3 Bin 125 Light Duty Vehicle additive tailpipe emission DFs are detailed below:

Additive Exhaust DF	NMOG/NMHC mg/mi	CO mg/mi	NOx mg/mi	HCHO mg/mi
150k	14.9	380	11.5	0.5

The Tier 3 Light Duty Vehicle additive evaporative emission DFs are detailed below:

Additive Evaporative DF	3-Day & Hot Soak mg	2-Day & Hot Soak mg	Running Loss mg/mi	ORVR mg/gal
FEL <325mg	2.1	0.0	0.0	6
FEL ≥325mg	0.0	0.0	0.0	6

5 TEST GROUP

5.1 Test Group Description

Test Group Name:	VMLNV04.0M14
Engine displacement:	3994 cm^3 / 243.7 in^3
Arrangement of cylinders:	V-configuration
Number of cylinders:	8
Vehicle Class:	LDV
Applicable emissions standards:	
Exhaust:	Federal TIER3 BIN 125
	CARB LEV4 ULEV 125
Evaporative:	Federal TIER3 / CARB LEV4 (Option 2) with FEL
FTP Family Emission Limit:	125 mg/mile
FTP Fleet Standard:	51 mg/mile

6 TEST VEHICLE

6.1 Test Vehicle Description

Emission Data Vehicle:

Represented Model:	765LT Spider [Carline 145]
Vehicle Identification Number:	SBM14FCA9JW990104
Configuration Number:	3 = Sport Auto powertrain mode, 755 hp
Engine Displacement:	3994 cm^3 / 243.7 in^3
Engine Code:	40JBAK
ETW:	3500 lb
Axle Ratio:	3.727
Transmission:	7-Speed Automatic

Emission Data Vehicle (FTP20):

Represented Model:	750S Spider [Carline 147]
Vehicle Identification Number:	SBM14FCA9JW990104
Configuration Number:	5 = Sport Auto powertrain mode, 740 hp
Engine Displacement:	3994 cm^3 / 243.7 in^3
Engine Code:	40JBAK
ETW:	3500 lb
Axle Ratio:	3.727
Transmission:	7-Speed Automatic

Full vehicle details are given in the vehicle information submitted to Verify and reproduced in Section 7.

7 TEST RESULTS

7.1 Certification Summary Information is provided in this section for the tests carried out for this Test Group:

Test	Test Number
FTP75	KMLN10070875
HWFET	KMLN10070876
US06	KMLN10070892
SC03	KMLN10070886
FTP20	KMLN10080999
FTP50	MMLN10066302
FTP75 (3DD)	KMLN10070960
FTP75 (2DD)	KMLN10080951
FTP75 (ORVR)	JMLN10080948
CARB 2-Day Evap	KMLN10080952
CARB 3-Day Evap	KMLN10070962
ORVR	KMLN10080949
Running Loss	KMLN10070963
BETP	NMLN10070954

7.2 Testing Decisions:

MY27 VMLNV04.0M14 contains full carryover Carlines 146 & 147 and the addition of carline 148.

No testing decisions are made for carlines 146 & 147 as all test data remains valid from the preceding model year.

The addition of carline 148 does not introduce a new worst case, therefore all test data from the preceding model year is also representative for this carline.

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Certification Summary Information Report

Manufacturer	McLaren Automotive Limited	**Manufacturer Code**	MLN
Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	03/02/2026 12:08:41 PM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Multipoint/sequential fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	No
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	No	**California Partial Zero Emissions Vehicle Indicator**	No
Durability Group Name	VMLNGPGNN003	**Durability Group Equivalency Factor**	1.0
Reduced Fee Test Group	No	**Certification Region Code(s)**	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	**CAP2000 Conditional Certificate?**	N/A
Independent Commercial Importer?	--	**Alternative Fuel Converter Certificate?**	--
SFTP Federal Composite Compliance Identifier	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VMLNV04.0M14
Test Group OBD Compliance Level	Partial - with deficiencies and penalty	**Number of Test Group OBD Deficiencies**	3
OBD Deficiencies Comments	Full details available in California ARB approval letter E-26-004. Two deficiencies carried over (engine start-stop monitoring and PCV system monitoring), one new deficiency (J1979-2 implementation).		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Evaporative/Refueling Family Information

Evaporative Summary Information Type	New	**Submission/Correction Date**	11/26/2025 09:36:35 AM
Integrated ORVR?	Yes	**Fuel(s)**	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Metal	**Fuel Tank Material Description**	Aluminium
Fill Pipe Seal Type	Mechanical seal		
Air Intake System Vapor Storage Device?	No	**Air Intake System Vapor Storage Device Description**	N/A
Fuel System Vapor Storage Canister?	Yes	**Other Vapor Storage**	N/A
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	164	**Number of Primary Canisters**	1
Number of Bleed Canisters	0	**Bleed Canister Total Working Capacity (grams)**	0
Mfr Evaporative/Refueling Family Comments	Vehicle is fitted with a single carbon canister with three chambers and additional scrubber filter. Total canister volume of 3231 ml, with a rated EPA capacity of 163.8g		

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	Bleed test performed with fuel system only.		
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
VMLNR0164M14-L14	50 State	0.02	Leak Family test data waivered under CFR & 86.1829-15 Section (e) Part (4).

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Certification Summary Information Report

Test Group	VMLNV04.0M14	Evaporative/Refueling Family	VMLNR0164M14

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
McLaren Automotive Limited	2 - McLaren	146 - 750S Coupe	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes
McLaren Automotive Limited	2 - McLaren	147 - 750S Spider	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes
McLaren Automotive Limited	2 - McLaren	148 - 750S Coupe Le Mans	Federal	2-Wheel Drive, Rear	Automated Manual	7	Yes
McLaren Automotive Limited	2 - McLaren	146 - 750S Coupe	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes
McLaren Automotive Limited	2 - McLaren	148 - 750S Coupe Le Mans	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual	7	Yes
McLaren Automotive Limited	2 - McLaren	147 - 750S Spider	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes

Engine Description

Hybrid Type	--	**Hybrid Description**	--
Engine Type	4-Stroke Spark Ignition	**Mfr Engine Description**	--
Engine Block Arrangement	V-shaped engine	**Mfr Engine Block Arrangement Description**	--
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	0W40
Number of Cylinders/Rotors	8	**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	Three-way catalyst	Palladium + Rhodium	Metal	Monolith
3	Three-way catalyst	Palladium + Rhodium	Metal	Monolith
4	Three-way catalyst	Palladium + Rhodium	Metal	Monolith

Mfr After Treatment Device (ATD) Comments	1 starter and 1 secondary catalyst per bank, total 4.
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Engine Configuration Number 1

Engine Displacement (liters)	4.0	**Engine Rated Horsepower**	740
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Turbocharged	**Number of Air Aspiration Devices**	2
Air Aspiration Device Configuration	Parallel	**Charge Air Cooler Type**	Liquid
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Variable Inlet Valve Timing by camshaft rotation offset.		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	4	**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	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	KMLN10070875	KMLN10070892	KMLN10070886	KMLN10080999	KMLN10070876	17.0	228.2	24.1	286.1	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Gasoline	KMLN10070875	KMLN10070892	KMLN10070886

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Emission Data Vehicle Information

Vehicle ID / Configuration	SBM14AAA8HW990014 / 3	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	KMLNV04.0M14	**Original Evaporative/Refueling Family**	KMLNR0164M14
Original Test Vehicle Model Year	2019		

Vehicle Model

Represented Test Vehicle Make	McLaren	**Represented Test Vehicle Model**	765LT Spider

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	40JBAK	**Rated Horsepower**	755
Displacement (liters)	3.994		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	2952	**Equivalent Test Weight (pounds)**	3500
GVWR (lbs)	3459	**N/V Ratio**	30.8
Axle Ratio	3.73		
Transmission Type	Automatic	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

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Certification Summary Information Report

Test Group	VMLNV04.0M14	Evaporative/Refueling Family	VMLNR0164M14

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	52.7	1.2295	0.0129	28.28	0.6617	0.0167	19.5
Cold CO	58	1.3524	0.0142	26.3	0.6599	0.0181	N/A
US06	52.7	1.2295	0.0129	28.28	0.6617	0.0167	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Config #3 - 765LT Spider - Sport Powertrain Mode

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10070875**	**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	01/21/2021	**Fuel**	Gasoline
Fuel Batch ID	HF2603	**Fuel Calibration Number**	2537
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8639	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	551.436	--
FE BAG 1 (Bag 1 Fuel Economy)	15.92	15.92
CO2 BAG 2 (Bag 2 Carbon Dioxide)	495.733	--
FE BAG 2 (Bag 2 Fuel Economy)	17.82	17.82
CO2 BAG 3 (Bag 3 Carbon Dioxide)	432.365	--
FE BAG 3 (Bag 3 Fuel Economy)	20.42	20.42
METHANE (CH4 - Methane)	0.008947	--
CO (Carbon Monoxide)	0.439802	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2	--
DT-EER (Drive Trace Energy Economy Rating)	0.29	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.03	--
HCHO (Formaldehyde)	0.0006	--
MFR FE (Manufacturer Fuel Economy)	18	18
NOX (Nitrogen Oxide)	0.022474	--
N2O (Nitrous Oxide)	0.0009	--
HC-NM (Non-methane Hydrocarbon)	0.045341	--
NMOG (Non-methane organic gases)	0.049833	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.067814	--
HC-TOTAL (Total Hydrocarbon)	0.054288	--

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Certification Summary Information Report

Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	490.755	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	489.875	--

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #3: 765LT Sport Powertrain Mode.

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 125	CO	0.44	--	--	--	0.380	--	0.8	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.71	--	--	--	0.380	--	0.7	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0.0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0089	--	--	--	0.0069	--	0.016	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	N2O	0.0009	--	--	--	0.0028	--	0.004	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0498	--	1.1	--	0.0149	--	0.065	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0723	--	--	--	--	--	0.099	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0742	--	--	--	0.0	--	0.074	0.090	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0225	--	--	--	0.0115	--	0.034	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.44	--	--	--	0.380	--	0.8	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	METHANE	0.0089	--	--	--	0.0069	--	0.016	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV125	N2O	0.0009	--	--	--	0.0028	--	0.004	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.04983	--	1.1	--	0.0149	--	0.0647	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.07230	--	--	--	--	--	0.099	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.02247	--	--	--	0.0115	--	0.0340	999.9999	Pass

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

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10070876**	**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	01/14/2021	**Fuel**	Gasoline
Fuel Batch ID	HF2603	**Fuel Calibration Number**	2537
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8504	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	0.004569	--
CO (Carbon Monoxide)	0.048385	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.05	--
DT-EER (Drive Trace Energy Economy Rating)	-0.37	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.04	--
MFR FE (Manufacturer Fuel Economy)	24.32	24.32
NOX (Nitrogen Oxide)	0.003748	--
HC-NM (Non-methane Hydrocarbon)	0.012079	--
NMOG (Non-methane organic gases)	0.012441	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.015827	--
HC-TOTAL (Total Hydrocarbon)	0.016648	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	363.326	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	363.2	--

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #3: 765LT Sport Powertrain Mode.

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Certification Summary Information Report

Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

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 125	CREE	999	--	--	--	0.0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0124	--	1.1	--	0.0149	--	0.027	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0161	--	--	--	--	--	0.042	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0037	--	--	--	0.0115	--	0.015	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.01244	--	1.1	--	0.0149	--	0.0273	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.01619	--	--	--	--	--	0.043	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.00375	--	--	--	0.0115	--	0.0152	999.9999	Pass

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

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10070892**	**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	01/14/2021	**Fuel**	Gasoline
Fuel Batch ID	HF2603	**Fuel Calibration Number**	2537
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8538	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	606.228	--
FE BAG 1 (Bag 1 Fuel Economy)	14.56	14.56
CO2 BAG 2 (Bag 2 Carbon Dioxide)	440.23	--
FE BAG 2 (Bag 2 Fuel Economy)	20.02	20.02
METHANE (CH4 - Methane)	0.017031	--
CO (Carbon Monoxide)	0.405524	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.48	--
DT-EER (Drive Trace Energy Economy Rating)	-1.48	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.34	--
MFR FE (Manufacturer Fuel Economy)	18.49	18.49
NOX (Nitrogen Oxide)	0.015492	--
HC-NM (Non-methane Hydrocarbon)	0.056032	--
NMOG (Non-methane organic gases)	0.057713	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.071524	--
HC-TOTAL (Total Hydrocarbon)	0.073063	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	476.861	--

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #3: 765LT Sport Powertrain Mode.

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Certification Summary Information Report

Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

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 125	CO	0.40552	--	--	--	0.380	--	0.7855	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.05771	--	1.1	--	0.0149	--	0.0726	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.01549	--	--	--	0.0115	--	0.0270	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.41	--	--	--	0.380	--	0.8	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.05771	--	1.1	--	0.0149	--	0.0726	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.07320	--	--	--	--	--	0.100	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.01549	--	--	--	0.0115	--	0.0270	999.9999	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10070886**	**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	05/05/2021	**Fuel**	Gasoline
Fuel Batch ID	HF2603	**Fuel Calibration Number**	2537
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	8873	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	0.003141	--
CO (Carbon Monoxide)	0.162091	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.89	--
DT-EER (Drive Trace Energy Economy Rating)	-1.71	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.69	--
MFR FE (Manufacturer Fuel Economy)	13.79	13.79
NOX (Nitrogen Oxide)	0.00385	--
HC-NM (Non-methane Hydrocarbon)	0.001676	--
NMOG (Non-methane organic gases)	0.001726	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.005526	--
HC-TOTAL (Total Hydrocarbon)	0.004816	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	640.547	--

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #3: 765LT Sport Powertrain Mode.

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Certification Summary Information Report

Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

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 125	CO	0.16209	--	--	--	0.380	--	0.5421	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.00173	--	1.1	--	0.0149	--	0.0166	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.00385	--	--	--	0.0115	--	0.0154	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.16	--	--	--	0.380	--	0.5	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.00173	--	1.1	--	0.0149	--	0.0166	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.00558	--	--	--	--	--	0.032	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.00385	--	--	--	0.0115	--	0.0154	999.9999	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Emission Data Vehicle Information

Vehicle ID / Configuration	SBM14AAA8HW990014 / 4	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	KMLNV04.0M14	**Original Evaporative/Refueling Family**	KMLNR0164M14
Original Test Vehicle Model Year	2019		

Vehicle Model

Represented Test Vehicle Make	McLaren	**Represented Test Vehicle Model**	765LT Spider

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	40JBAK	**Rated Horsepower**	755
Displacement (liters)	3.994		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	3217	**Equivalent Test Weight (pounds)**	3625
GVWR (lbs)	3870	**N/V Ratio**	30.8
Axle Ratio	3.73		
Transmission Type	Automatic	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

Dynamometer Coefficients:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	41.81	1.0174	0.0121	12.43	0.602	0.0121	16.4

Emission Control Device Comments --

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Manufacturer Test Vehicle Comments	Config #4 - 765LT Spider PT, 720S Spider Road Load (Evap worse case) - Sport Powertrain Mode		

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**JMLN10080948**	**Test Procedure**	**35 - California fuel 3-day exhaust**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	11/22/2022	**Fuel**	Gasoline
Fuel Batch ID	44869	**Fuel Calibration Number**	2455
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	10571	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	569.313	--
FE BAG 1 (Bag 1 Fuel Economy)	15.18	15.18
CO2 BAG 2 (Bag 2 Carbon Dioxide)	488.607	--
FE BAG 2 (Bag 2 Fuel Economy)	17.84	17.84
CO2 BAG 3 (Bag 3 Carbon Dioxide)	423.012	--
FE BAG 3 (Bag 3 Fuel Economy)	20.59	20.59
METHANE (CH4 - Methane)	0.010052	--
CO (Carbon Monoxide)	0.585456	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.59	--
DT-EER (Drive Trace Energy Economy Rating)	0.22	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.97	--
MFR FE (Manufacturer Fuel Economy)	17.85	17.85
NOX (Nitrogen Oxide)	0.024299	--
HC-NM (Non-methane Hydrocarbon)	0.041907	--
NMOG (Non-methane organic gases)	0.046014	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.066206	--
HC-TOTAL (Total Hydrocarbon)	0.051959	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	488.378	999

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Certification Summary Information Report

Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	487.29	--

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #0: Sport Powertrain Mode. FTP75 Evaporative ORVR.

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 125	CO	0.59	--	--	--	0.380	--	1.0	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0.0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0101	--	--	--	0.0069	--	0.017	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0460	--	1.1	--	0.0149	--	0.061	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0703	--	--	--	--	--	0.097	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0243	--	--	--	0.0115	--	0.036	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.59	--	--	--	0.380	--	1.0	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	CREE	999	--	--	--	0.0	--	999	--	--
CA	150,000 miles	California LEV-IV ULEV125	METHANE	0.0101	--	--	--	0.0069	--	0.017	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0460	--	1.1	--	0.0149	--	0.061	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0703	--	--	--	--	--	0.097	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0243	--	--	--	0.0115	--	0.036	999.999	Pass

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

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10070960**	**Test Procedure**	**35 - California fuel 3-day exhaust**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	07/27/2021	**Fuel**	Gasoline
Fuel Batch ID	IJ2303	**Fuel Calibration Number**	849
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9322	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	540.674	--
FE BAG 1 (Bag 1 Fuel Economy)	16.02	16.02
CO2 BAG 2 (Bag 2 Carbon Dioxide)	478.535	--
FE BAG 2 (Bag 2 Fuel Economy)	18.23	18.23
CO2 BAG 3 (Bag 3 Carbon Dioxide)	415.921	--
FE BAG 3 (Bag 3 Fuel Economy)	20.96	20.96
METHANE (CH4 - Methane)	0.01223	--
CO (Carbon Monoxide)	0.477124	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.96	--
DT-EER (Drive Trace Energy Economy Rating)	-1.75	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.39	--
MFR FE (Manufacturer Fuel Economy)	18.36	18.36
NOX (Nitrogen Oxide)	0.0177	--
HC-NM (Non-methane Hydrocarbon)	0.031095	--
NMOG (Non-methane organic gases)	0.034153	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.048795	--
HC-TOTAL (Total Hydrocarbon)	0.043325	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	475.082	999

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Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	474.236	--

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #4: Sport Powertrain Mode. FTP75 Evaporative 3DD.

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 125	CO	0.48	--	--	--	0.380	--	0.9	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0.0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0122	--	--	--	0.0069	--	0.019	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0342	--	1.1	--	0.0149	--	0.049	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0519	--	--	--	--	--	0.078	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0177	--	--	--	0.0115	--	0.029	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.48	--	--	--	0.380	--	0.9	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	CREE	999	--	--	--	0.0	--	999	--	--
CA	150,000 miles	California LEV-IV ULEV125	METHANE	0.0122	--	--	--	0.0069	--	0.019	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0342	--	1.1	--	0.0149	--	0.049	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0519	--	--	--	--	--	0.078	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0177	--	--	--	0.0115	--	0.029	999.999	Pass

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

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10080951**	**Test Procedure**	**25 - California fuel 2-day exhaust (w/can load)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	06/03/2022	**Fuel**	N/A
Fuel Batch ID	44869	**Fuel Calibration Number**	2455
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	10055	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	0	--
FE BAG 1 (Bag 1 Fuel Economy)	0	0
CO2 BAG 2 (Bag 2 Carbon Dioxide)	0	--
FE BAG 2 (Bag 2 Fuel Economy)	0	0
CO2 BAG 3 (Bag 3 Carbon Dioxide)	0	--
FE BAG 3 (Bag 3 Fuel Economy)	0	0
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
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)	0	0
NOX (Nitrogen Oxide)	0	--
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	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	999

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Certification Summary Information Report

Test Group	VMLNV04.0M14	Evaporative/Refueling Family	VMLNR0164M14

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments Emissions not sampled. Config #4: Sport Powertrain Mode. FTP75 Evaporative 2DD.

Test #	**KMLN10070962**	**Test Procedure**	**38 - CA fuel 3-day evap.**
Exhaust Test # for this Evap Test	KMLN10070960	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	07/27/2021	**Fuel**	Gasoline
Fuel Batch ID	IJ2303	**Fuel Calibration Number**	849
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9322	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.257	--

Manufacturer Test Comments 3-day diurnal emission result in grams.

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	0.2570	0.0021	0.259	0.275	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2570	0.0021	0.259	0.275	Pass

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Test #	**KMLN10080952**	**Test Procedure**	**27 - California fuel 2-day evap**
Exhaust Test # for this Evap Test	KMLN10080951	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	06/03/2022	**Fuel**	Gasoline
Fuel Batch ID	44869	**Fuel Calibration Number**	2455
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	10066	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.235	--

Manufacturer Test Comments 2-day diurnal emission result in grams.

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	0.2350	0.000	0.235	0.275	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2350	0.000	0.235	0.275	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10070963**	**Test Procedure**	**37 - California Fuel Running Loss**
Exhaust Test # for this Evap Test	KMLN10070960	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	07/27/2021	**Fuel**	Gasoline
Fuel Batch ID	IJ2303	**Fuel Calibration Number**	849
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9322	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0001	--

Manufacturer Test Comments Emission result in grams per mile.

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10080949**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	JMLN10080948	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	11/22/2022	**Fuel**	Gasoline
Fuel Batch ID	44869	**Fuel Calibration Number**	2455
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	10501	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.03	--

Manufacturer Test Comments ORVR Refuelling emissions result in g/dispensed gal

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	0.03	0.006	0.0	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.03	0.006	0.0	0.2	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Emission Data Vehicle Information

Vehicle ID / Configuration	SBM14AAA8HW990014 / 5	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	KMLNV04.0M14	**Original Evaporative/Refueling Family**	KMLNR0164M14
Original Test Vehicle Model Year	2019		

Vehicle Model

Represented Test Vehicle Make	McLaren	**Represented Test Vehicle Model**	750S Spider

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	4448	**Odometer Correction Factor**	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	40JBAK	**Rated Horsepower**	740
Displacement (liters)	3.994		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	3170	**Equivalent Test Weight (pounds)**	3500
GVWR (lbs)	3813	**N/V Ratio**	30.8
Axle Ratio	3.73		
Transmission Type	Automatic	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

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Certification Summary Information Report

Test Group	VMLNV04.0M14	Evaporative/Refueling Family	VMLNR0164M14

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	42.71	0.8177	0.0171	17.42	0.3589	0.0188	16.8
Cold CO	46.99	0.8994	0.0188	13.02	0.2174	0.0225	N/A
US06	42.71	0.8177	0.0171	17.42	0.3589	0.0188	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Config #5 - 750S Spider - Sport Powertrain Mode

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**KMLN10080999**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	06/01/2023	**Fuel**	Gasoline
Fuel Batch ID	41064	**Fuel Calibration Number**	2940
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	11751	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	656.323	--
FE BAG 1 (Bag 1 Fuel Economy)	12.99	12.99
CO2 BAG 2 (Bag 2 Carbon Dioxide)	607.575	--
FE BAG 2 (Bag 2 Fuel Economy)	14.29	14.29
CO2 BAG 3 (Bag 3 Carbon Dioxide)	463.378	--
FE BAG 3 (Bag 3 Fuel Economy)	18.73	18.73
METHANE (CH4 - Methane)	0.029485	--
CO (Carbon Monoxide)	0.940339	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-9.1	--
DT-EER (Drive Trace Energy Economy Rating)	-4.76	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-13.29	--
MFR FE (Manufacturer Fuel Economy)	14.96	14.96
NOX (Nitrogen Oxide)	0.048946	--
HC-NM (Non-methane Hydrocarbon)	0.331065	--
NMOG (Non-methane organic gases)	0.364545	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.380011	--
HC-TOTAL (Total Hydrocarbon)	0.360549	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	577.891	--

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Certification Summary Information Report

Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #5: 750S Spider Sport Powertrain Mode.

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 125	CO	0.94	--	--	--	0.380	--	1.3	10.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	HC-NM	0.33	--	--	--	0.0149	--	0.3	0.3	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.94	--	--	--	0.380	--	1.3	10.0	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Emission Data Vehicle Information

Vehicle ID / Configuration	SBM14DCA3MW005868 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	NMLNV04.0M14	**Original Evaporative/Refueling Family**	NMLNR0164M14
Original Test Vehicle Model Year	2022		

Vehicle Model

Represented Test Vehicle Make	McLaren	**Represented Test Vehicle Model**	720S Spider

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	40JBAG	**Rated Horsepower**	710
Displacement (liters)	3.994		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	3217	**Equivalent Test Weight (pounds)**	3625
GVWR (lbs)	3870	**N/V Ratio**	28.9
Axle Ratio	3.31		
Transmission Type	Automatic	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

Dynamometer Coefficients:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	47.53	0.8238	0.0151	21.4	0.4729	0.0152	16.9

Emission Control Device Comments --

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Manufacturer Test Vehicle Comments	Config #0 - 720S Spider - Sport Powertrain Mode		
Test #	**NMLN10070954**	**Test Procedure**	**65 - Evap Canister Bleed Test**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	06/30/2021	**Fuel**	Gasoline
Fuel Batch ID	IJ2303	**Fuel Calibration Number**	849
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	0	**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
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0077	--

Manufacturer Test Comments Rig test performed. Result in g.

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	0.008	0.000	0.01	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.008	0.000	0.01	0.02	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Emission Data Vehicle Information

Vehicle ID / Configuration	SBM14FCA9JW990104 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	MMLNV04.0M14	**Original Evaporative/Refueling Family**	MMLNR0164M14
Original Test Vehicle Model Year	2021		

Vehicle Model

Represented Test Vehicle Make	McLaren	**Represented Test Vehicle Model**	765LT Coupe

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	17854	**Odometer Correction Factor**	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	40JBAR	**Rated Horsepower**	755
Displacement (liters)	3.994		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	2952	**Equivalent Test Weight (pounds)**	3500
GVWR (lbs)	3459	**N/V Ratio**	30.8
Axle Ratio	3.73		
Transmission Type	Automated Manual	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

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Certification Summary Information Report

Test Group	VMLNV04.0M14	Evaporative/Refueling Family	VMLNR0164M14

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	52.7	1.2295	0.0129	26.19	0.5141	0.0179	19.5
Cold CO	58	1.3524	0.0142	23.6	0.6006	0.0186	N/A
US06	52.7	1.2295	0.0129	26.19	0.5141	0.0179	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Config #1 - Sport Powertrain Mode

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Test #	**MMLN10066302**	**Test Procedure**	**51 - CA fuel 50 Deg(F) exhaust test**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	47 - CARB LEV3 E10 Premium Gasoline
Test Date	08/06/2020	**Fuel**	Gasoline
Fuel Batch ID	HE1303	**Fuel Calibration Number**	3367
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	21663	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	604.024	--
FE BAG 1 (Bag 1 Fuel Economy)	14.24	14.24
CO2 BAG 2 (Bag 2 Carbon Dioxide)	525.289	--
FE BAG 2 (Bag 2 Fuel Economy)	16.59	16.59
CO2 BAG 3 (Bag 3 Carbon Dioxide)	443.022	--
FE BAG 3 (Bag 3 Fuel Economy)	19.66	19.66
METHANE (CH4 - Methane)	0.017282	--
CO (Carbon Monoxide)	0.910399	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.26	--
DT-EER (Drive Trace Energy Economy Rating)	-0.02	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.73	--
HCHO (Formaldehyde)	0.0012	--
MFR FE (Manufacturer Fuel Economy)	16.73	16.73
NOX (Nitrogen Oxide)	0.026702	--
HC-NM (Non-methane Hydrocarbon)	0.09211	--
NMOG (Non-methane organic gases)	0.101432	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.118812	--
HC-TOTAL (Total Hydrocarbon)	0.109392	--

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Certification Summary Information Report

Test Group VMLNV04.0M14 **Evaporative/Refueling Family** VMLNR0164M14

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	518.974	--

Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #1: Sport Powertrain Mode.

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-IV ULEV125	CO	0.91	--	--	--	0.0	--	0.9	2.1	Pass
CA	4,000 miles	California LEV-IV ULEV125	HCHO	0.0012	--	--	--	0.0	--	0.001	0.016	Pass
CA	4,000 miles	California LEV-IV ULEV125	NMOG	0.10143	--	1.1	--	0.0	--	0.1014	999.9999	Pass
CA	4,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.12813	--	--	--	--	--	0.128	0.250	Pass
CA	4,000 miles	California LEV-IV ULEV125	NOX	0.02670	--	--	--	0.0	--	0.0267	999.9999	Pass

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Fuel Properties

Fuel Batch ID	**44869**	**Fuel Calibration Number**	**2455**
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	**Fuel Batch Calibration Date**	08/31/2021
Fuel Batch Calibration Effective Date	08/08/2022	**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**	0.748
Fuel Ethanol Volume Percent (%)	9.6	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17829
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	**IJ2303**	**Fuel Calibration Number**	**849**
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	**Fuel Batch Calibration Date**	10/21/2020
Fuel Batch Calibration Effective Date	11/23/2020	**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**	0.748
Fuel Ethanol Volume Percent (%)	9.6	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17810
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.836	**Weight Fraction CO2**	--

Fuel Batch ID	**HF2603**	**Fuel Calibration Number**	**2537**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	07/18/2019
Fuel Batch Calibration Effective Date	09/24/2019	**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 (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17308
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.823	**Weight Fraction CO2**	--

Fuel Batch ID	**HE1303**	**Fuel Calibration Number**	**3367**
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	**Fuel Batch Calibration Date**	05/13/2019
Fuel Batch Calibration Effective Date	10/01/2019	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.748
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17788
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	**41064**	**Fuel Calibration Number**	**2940**
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	**Fuel Batch Calibration Date**	05/11/2021
Fuel Batch Calibration Effective Date	05/18/2021	**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**	0.745
Fuel Ethanol Volume Percent (%)	10	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17803
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.834	**Weight Fraction CO2**	--

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Certification Summary Information Report

Test Group	VMLNV04.0M14	Evaporative/Refueling Family	VMLNR0164M14

Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV125
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	--	--	--	--	--	--	0.380	2.1
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV125
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	--	--	--	--	--	--	0.380	2.1
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV125
Fuel	Gasoline	**Test Procedure**	CA fuel 50 Deg(F) exhaust test

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	0.0	2.1
4,000 miles	HCHO	--	--	--	--	--	--	0.0	0.016
4,000 miles	NMOG	--	--	1.1	--	--	--	0.0	999.9999
4,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.250
4,000 miles	NOX	--	--	--	--	--	--	0.0	999.9999

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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	--	--	--	--	--	--	0.380	999.9999
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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	--	--	--	--	--	--	0.380	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.380	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.0	999.999
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0.0	0.090
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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	--	--	--	--	--	--	0.380	999.9999
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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	--	--	--	--	--	--	0.0	999.999
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV125
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	--	--	--	--	--	--	0.380	10.0

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
Fuel	Gasoline	**Test Procedure**	California fuel 3-day exhaust

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	--	--	--	--	--	--	0.380	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.0	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.0	999.999
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0.0	0.090
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV125
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	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV125
Fuel	Gasoline	**Test Procedure**	California fuel 3-day exhaust

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	--	--	--	--	--	--	0.380	2.1
150,000 miles	CREE	--	--	--	--	--	--	0.0	999.999
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 125
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	--	--	--	--	--	--	0.380	10.0
150,000 miles	HC-NM	--	--	--	--	--	--	0.0149	0.3

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV125
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	--	--	--	--	--	--	0.380	9.6
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Evaporative/Refueling Standards

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Cert	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	California Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Cert	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	California fuel 2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.000

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Cert	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	CA fuel 3-day evap.		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.0021

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Spitback		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	SPITBACK	--	1.0	0.000

Evaporative/Refueling Family	VMLNR0164M14	**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	0.000

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Cert	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	Spitback		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	SPITBACK	--	1.0	0.000

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Cert	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.2	0.006

Evaporative/Refueling Family	VMLNR0164M14	**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	0.000

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.2	0.006

Evaporative/Refueling Family	VMLNR0164M14	**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	0.000

Evaporative/Refueling Family	VMLNR0164M14	**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	0.000

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	California fuel 2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.000

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	CA fuel 3-day evap.		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.0021

Evaporative/Refueling Family	VMLNR0164M14	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	California Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14

Glossary

Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		

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

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Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
ACT-DISTANCE	Actual Distance Driven (miles)	WATT-HRS BAG 3	Bag 3 Watt Hours
AS-VOLT	Average System Voltage	WATT-HRS BAG 4	Bag 4 Watt Hours
CO2 BAG 1	Bag 1 Carbon Dioxide	WATT-HRS	Watt Hours
CO2 BAG 2	Bag 2 Carbon Dioxide	HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon
CO2 BAG 3	Bag 3 Carbon Dioxide	HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon
CO2 BAG 4	Bag 4 Carbon Dioxide	HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	N2O BAG 1	Bag 1 Nitrous Oxide
DT-IWRR	Drive Trace Inertia Work Ratio Rating	N2O BAG 2	Bag 2 Nitrous Oxide
DT-ASCR	Drive Trace Absolute Speed Change Rating	N2O BAG 3	Bag 3 Nitrous Oxide
DT-EER	Drive Trace Energy Economy Rating	N2O BAG 4	Bag 4 Nitrous Oxide
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
B2	Federal Tier 2 Bin 2	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
B3	Federal Tier 2 Bin 3	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
B4	Federal Tier 2 Bin 4	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
B5	Federal Tier 2 Bin 5	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
B6	Federal Tier 2 Bin 6	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
B7	Federal Tier 2 Bin 7	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
B8	Federal Tier 2 Bin 8	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
B9	Federal Tier 2 Bin 9	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
B10	Federal Tier 2 Bin 10	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
B11	Federal Tier 2 Bin 11	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2	California LEV-II LEV	L4SULEV100	California LEV-IV SULEV100
L2OP	California LEV-II LEV Optional	L4SULEV125	California LEV-IV SULEV125
U2	California LEV-II ULEV	L4SULEV15	California LEV-IV SULEV15
S2	California LEV-II SULEV	L4SULEV150	California LEV-IV SULEV150
ZEV	California ZEV	L4SULEV170	California LEV-IV SULEV170
OT	Other	L4SULEV175	California LEV-IV SULEV175
T1	Federal Tier 1	L4SULEV20	California LEV-IV SULEV20
PZEV	California PZEV	L4SULEV200	California LEV-IV SULEV200
L2LEV160	California LEV-II LEV160	L4SULEV230	California LEV-IV SULEV230
L2ULEV125	California LEV-II ULEV125	L4SULEV25	California LEV-IV SULEV25
L2SULEV30	California LEV-II SULEV30	L4SULEV30	California LEV-IV SULEV30
L2LEV395	California LEV-II LEV395	L4SULEV75	California LEV-IV SULEV75

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Test Group	VMLNV04.0M14	Evaporative/Refueling Family	VMLNR0164M14
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

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Certification Summary Information Report

Test Group	VMLNV04.0M14	**Evaporative/Refueling Family**	VMLNR0164M14
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

8 MANUFACTURER STATEMENTS

8.1 Emissions Testing Waiver Statements

8.1.1 High Altitude Emissions

McLaren affirms that all light-duty vehicles included in the application comply with the applicable high-altitude exhaust and evaporative emissions standards. This is based on good engineering judgement and development testing.

In accordance with 40 CFR 86.1829-15(c) and 40 CFR 86.1829-01(b)(2)(ii)(B), we waive the data submittal on the basis of this statement.

In accordance with 40 CFR 86.1810-17(f) and 40 CFR 86.1865-12(h), McLaren affirms that emissions control strategies are used similarly across all altitudes for light-duty vehicles included in this application.

8.1.2 Particulate Matter (PM)

McLaren affirms that all light-duty vehicles included in the application comply with the applicable particulate matter emission standards. This is based on good engineering judgement and development testing.

In accordance with 40 CFR 86.1829-15(d)(2), we waive the data submittal on the basis of this statement.

8.1.3 Knock Sensor [ref. EPA Guidance VPCD-97-01]

McLaren affirms that the knock sensors do not activate in any way during the FTP and HWFET, and knock sensor control does not influence the City/Highway fuel economy and emission results; both remain within the normal test variability. The calibration is designed to operate on 91 RON gasoline without the need for spark adjustment.

8.1.4 Lean Best Torque [ref. EPA Guidance VPCD-98-17 / 40 CFR 86.1810-01(i)(6)]

McLaren affirms that in determining Lean Best Torque, good engineering practice has been used to establish a calibration such that the Air/Fuel ratio is not richer than the leanest required to obtain maximum torque plus a tolerance of 6% throughout all normal vehicle use. At very high torque and engine speed additional enrichment is provided to protect the engine and emissions control hardware.

8.1.5 Emission Control System Continuity

In accordance with 40 CFR 86.1809-12(e), McLaren affirms that based on engineering evaluation and emission testing there is no discontinuity in emission performance of non-methane organic gases, carbon monoxide, carbon dioxide, oxides of nitrogen, nitrous oxide, methane, and formaldehyde measured on the Federal Test Procedure and Highway Fuel Economy Test procedure in the temperature range 20°F to 86°F.

8.1.6 A/C-On Specific Calibrations

In accordance with 40 CFR 86.1811-17(d)(3), McLaren affirms that no A/C-On specific calibrations are used in the light-duty vehicles included in this application.

8.1.7 Lean-On-Cruise Calibration

In accordance with 40 CFR 86.1811-17(d)(4), McLaren affirms that no lean-on-cruise calibrations are used in the light-duty vehicles included in this application.

8.1.8 Exhaust System Statement

McLaren affirms that the exhaust system for the 2027MY Test Group VMLNV04.0M14 has been analysed and designed to provide a durable and leak-free exhaust system for the whole vehicle life. The exhaust system design takes into account the need to enable repairs to be performed with commonly available tools to provide and maintain a leak-free status.

8.1.9 ORVR Spitback

McLaren affirms that all light-duty vehicles included in the application comply with the applicable ORVR Spitback standards. This is based on good engineering judgement, development testing and commonality with McLaren Evaporative Families with submitted test data well below the standard.

In accordance with 40 CFR 86.1829-15(e)(5), we waive the data submittal on the basis of this statement.

8.1.10 Fuel System Effective Leak Diameter

McLaren affirms that all light-duty vehicles included in the application comply with the applicable Leak Diameter standards. This is based on good engineering judgement, development testing and commonality with McLaren Evaporative Families with submitted test data well below the standard.

In accordance with 40 CFR 86.1829-15(e)(4), we waive the data submittal on the basis of this statement.

8.1.11 Adjustable Parameters

In accordance with 40 CFR 86.1833-01, McLaren affirms that no adjustable parameters are used in the light duty vehicles included in this application.

8.1.12 Formaldehyde (HCHO)

McLaren affirms that all light-duty vehicles included in the application comply with the applicable formaldehyde emission standards. This is based on good engineering judgement and development testing.

In accordance with 40 CFR 86.1829-15(d)(4), we waive the data submittal on the basis of this statement, where applicable.

9 OBD SYSTEM

9.1 OBD System Description

The VMLNV04.0M14 OBD system is designed and calibrated to be fully compliant with the following regulations/specifications:

a) Title 13, California Code of Regulations, Section 1968.2
b) SAE J1979 – (R) E.E Diagnostic Test Modes
c) ISO 15031-5 Road Vehicles – Communication between vehicle and external equipment for emissions related diagnostics – Part 5: Emissions – related diagnostic services
d) ISO 15765-4 Road Vehicles – Diagnostics on Controller Area Networks (CAN) – Part 4: Requirement for emissions related systems.

The corresponding OBD diagnostic connector is designed and located in accordance with specification SAE J1962.

The OBD system is detailed in Section 16 of the CBI version of this application.

9.2 OBD Approval

The CARB OBD approval letter is in Section 16 of the CBI version of this application.

10 DESCRIPTION OF ALTERNATE FUEL VEHICLES

Not applicable.

11 AUXILIARY EMISSION CONTROL DEVICE (AECD) DESCRIPTIONS

The AECD description information can be found in Section 16.3 of the CBI version of this application.

12 DESCRIPTION OF VEHICLES AND TEST PARAMETERS COVERED BY CERTIFICATE

Vehicle Description	**Model Name**	750S Coupe	750S Spider	750S Le Mans
	Carline Code	146	147	148
	Vehicle Classification	LDV		
	Sales Area	50 States		
Emissions Control System Description	**Catalysts**	Coated monolith with stainless steel casing. 2 starter and 2 secondary catalysts		
	EGR	N/A		
	Air Pump Type	Twin Electric		
	Fuel System Type	Multipoint Port Fuel Injection		
	Air Intake Aspiration Method	Forced		
	Other	N/A		
	Engine Code	40JBAS		
	Number of valves per cylinder	4		
	Engine Displacement	3994 cm^3 / 243.7 in^3		
	Transmission	Dual Clutch Transmission (Automatic)		
	Shift Indicator Light	No		
	Fuel Tank Volume	72 litres		
Tyre Description	**Tyre Size – Front**	245/35/R19 93Y XL		
	Rim Size – Front	9Jx19, offset 42mm		
	Tyre Size – Rear	305/30/R20 103Y XL		
	Rim Size – Rear	11Jx20, offset 25mm		
Transmission	**Highest Gear Ratio**	0.686		
	Final Drive Ratio	3.308		
	N/V Ratio	30.8		
	Road Load Horsepower	16.8		
Vehicle Weight	**Curb Weight**	3062 lb	3170 lb	3093 lb
	GVWR	3710 lbs	3813 lbs	3726 lb
	Equivalent Test Weight	3500 lb		

12.1 Test Parameters

12.1.1 Vehicle Operation and Engine Start/Stop Procedures (Extract from Owner's Manual)

Driving Controls
Starting and Driving

Brake pedal

WARNING: Do not keep any objects in the driver's footwell. Ensure that floor mats or carpets are properly secured and do not obstruct the pedals.

If objects become trapped between the pedals, you may not be able to brake or accelerate, and this could lead to an accident.

WARNING: The braking system is servo assisted when the engine is running. The brakes will still function with the engine off, but more pressure will be required to operate them.

WARNING: Do not rest your foot on the brake pedal while traveling as this may overheat the brakes, reduce their efficiency and cause excessive wear.

WARNING: If the brake warning light illuminates while the vehicle is in motion, stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.

Brake discs and pads

WARNING: New brake pads require a period of bedding in. For the first 625 miles (1,000 km), avoid situations where heavy braking is required.

Brake disc and pad wear depends on the driving style and driving conditions.

Brake warning light

BRAKE The brake warning light will illuminate when the ignition is switched on as a system test. If the brake warning light illuminates at any other time, a fault is indicated. Stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.

Starting/stopping the engine

WARNING: Never run the engine when the vehicle is in an enclosed space. Exhaust fumes contain poisonous carbon monoxide. Breathing exhaust fumes could lead to unconsciousness and death.

NOTE: Do not depress the accelerator pedal when starting the engine.

Starting the engine

1. Ensure that the key fob is in the vehicle.

2.8

Driving Controls
Starting and Driving

2. Depress the brake pedal, press and release the START/STOP button and the engine will start.
3. If the START/STOP button is pressed again while the engine is cranking, cranking is stopped.

Stopping the engine

1. Depress the brake pedal.
2. Select neutral.

3. Press the START/STOP button. The engine stops, the vehicle enters Awake mode, see Vehicle electrical status, page 2.2. The immobilizer is activated.

NOTE: The parking brake will apply automatically when the engine is stopped. Automatic application can be overridden by holding the parking brake switch in the off position whilst opening the driver's door.

Eco Start-Stop system

This system automatically stops the engine when conditions allow in order to reduce fuel consumption and exhaust gas emissions and restarts it again when required.

The following conditions must be met for the system to automatically stop the engine:

- Driver is detected as present
- Driving speed exceeded 6 mph (10 km/h) since previous stop
- Engine at normal operating temperature
- Vehicle battery fully charged
- Air conditioning demand not too high
- Comfort Powertrain mode active

2.9

12.1.2 Operation of the vehicle in a dynamometer test environment

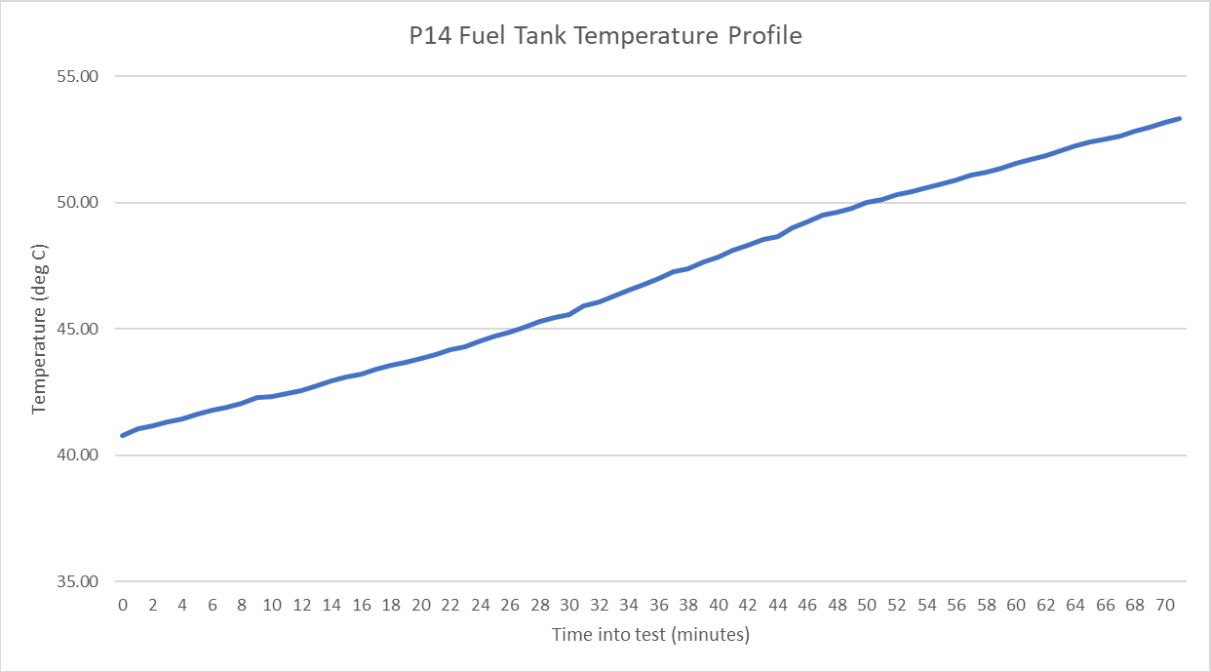
Information relating to operation of the vehicle in a dynamometer test environment is provided in Section 16 of the CBI version of this application.

12.1.3 Shift schedules:

FTA and US6A Automatic Transmission

12.1.4 Fuel Tank Temperature Profile

In accordance with the requirements of the California Evaporative Emissions Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles, Part III Section C and USA Federal requirements 40 CFR 86.129-94, testing has been conducted to measure the worst-case Fuel Tank Temperature Profile. The FTTP was corrected to 105°F using the provisions outlined in the California Evaporative Emissions Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles, Part III, Section C, Point 1.8. The data from which is presented in the graph below:



13 PROJECTED USA VEHICLE SALES

Refer to Section 16 of the CBI version of this application.

14 REQUEST FOR CERTIFICATION

14.1 Statement of Compliance:

McLaren Automotive Limited (McLaren) affirms that any element of design, system, or emission control device installed on or incorporated in McLaren's new motor vehicles or new motor vehicle engines, for the purpose of complying with standards prescribed under Section 202 of the Clean Air Act, will not to the best of McLaren's information and belief, cause the emission into the ambient air of pollutants in the operation of its motor vehicles or motor vehicle engines which cause or contribute to an unreasonable risk of public health or welfare except as specifically permitted by the standards prescribed under Section 202 of the Clean Air Act.

McLaren further states that any element of design, system, or emission control device installed on or incorporated in McLaren's new motor vehicles or new motor vehicle engines, for the purpose of complying with standards prescribed under Section 202 of the Clean Air Act, will not, to the best of McLaren's information and belief, cause or contribute to an unreasonable risk to the public safety.

The term pollutant means:

a. Diesel particulates
b. Nickel
c. MMT combustion products
d. Ammonia
e. Sulphates
f. Hydrogen sulphide
g. Hydrogen cyanide
h. Ruthenium combustion products
i. Nitrosamines

or any other pollutant which McLaren has identified which can reasonably be expected to be emitted from these vehicles.

The test vehicle with respect to which data is submitted is in all material respects as described in the application for certification and has been tested in accordance with the applicable test procedures utilizing the fuels and equipment described in the application for certification. It meets the requirements of such tests, and on the basis of such tests, it conforms to the requirements of the regulations in 40 CFR Part 86 Subpart S.

The test vehicle for which certification is requested conforms to the requirements in 40 CFR 86.1810-17(a) and the description of tests performed to ascertain compliance with the general standards in 40 CFR 86.1810-17(a), and the data derived from such tests, is available.

McLaren Automotive Limited herewith applies for the Federal Certificate of Conformity and a California ARB Executive Order for the Test Group VMLNV04.0M14.

This Test Group complies with all applicable regulations contained in 40 Code of Federal Regulations Part 86 and the California Code of Regulations.

Peter Montague
Head of Homologation, McLaren Automotive Limited

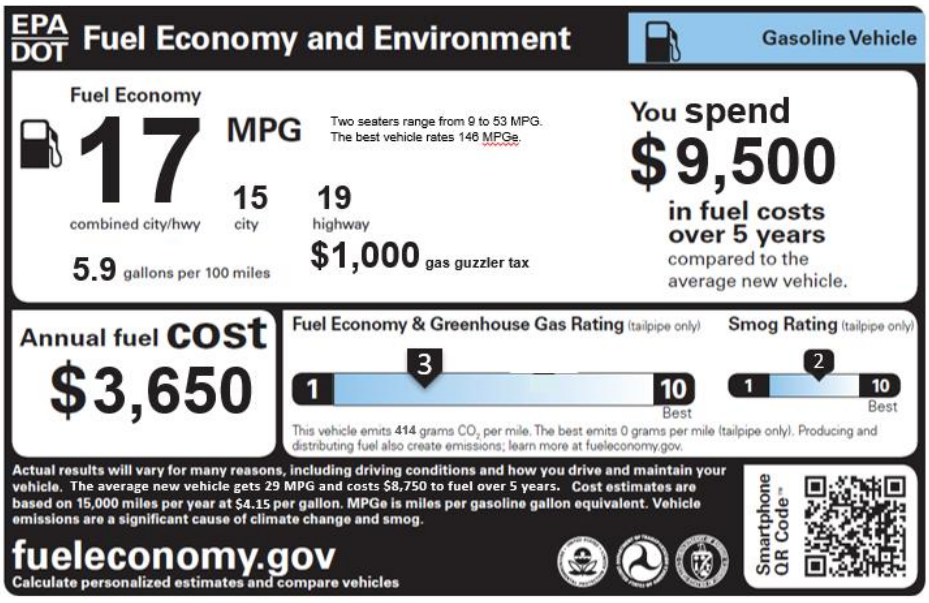
15 OTHER INFORMATION

15.1 Vehicle Emission Control Information Label

McLAREN AUTOMOTIVE LTD		
VEHICLE EMISSION CONTROL INFORMATION		
CONFORMS TO REGULATIONS: 2027MY	TEST GROUP: VMLNV04.0M14	
	EVAP FAMILY: VMLNR0164M14	
U.S. EPA: T3 B125 LDV	OBD: II	FUEL: GASOLINE
CALIFORNIA: LEV IV ULEV125 PC	OBD: II	FUEL: GASOLINE
2TWC(2)/2WR-HO2S/2HO2S/SFI/2AIR/2TC/2CAC		
Remarks:	No adjustments needed	
McLaren		28PA061CP

15.2 Fuel Economy Label

15.2.1 750S EPA Fuel Economy Label



15.3 Certification Fee Payment

To the representative for McLaren Automotive Limited:

Your certification Fee Filing Form(s) submitted for the following family or test group(s) and the associated financial documentation for your payment of $64634.00 were received on 11/13/2025.

- VMLNV04.0M14

- VMLNV04.0M18

This message indicates only that EPA has received record of your payment and form(s) for the above certification fee. It does not constitute the granting of a Certificate of Conformity by EPA or convey any information about the status of your certification application for the subject family or test group(s).

Please do not respond to this email. If you have any questions regarding certification of the family or test group(s), please contact your EPA Certification Representative; for questions on fees, contact Fees@epa.gov.