

Certification Summary Information Report

Manufacturer	Jaguar Land Rover Limited	Manufacturer Code	JLX
Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Certificate Number	VJLXT03.0HTR-005	CARB Executive Order #	--
Certificate Issue Date	05/06/2026	Certificate Revision Date	--
Certificate Effective Date	05/06/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/30/2026 08:38:59 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B						
Test Group Information									
CSI Type	New	Running Change Reference Number	--						
GHG Exempt Status	Not Exempt								
Drive Sources and Fuel(s)									
Drive Source #1:	Combustion Engine								
	<table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Gasoline</td><td>Spark Ignition Direct fuel injection</td><td>No</td></tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Gasoline	Spark Ignition Direct fuel injection	No		
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Gasoline	Spark Ignition Direct fuel injection	No							
Drive Source #2:	Electric Motor								
	<table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Electricity</td><td>--</td><td>--</td></tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Electricity	--	--		
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Electricity	--	--							
Hybrid Indicator	Yes								
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	No						
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No						
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4						
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--						
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	Yes						
Durability Group Name	VJLXGPGNNHTR	Durability Group Equivalency Factor	1						
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA						
Complies with HD GHG 2b/3 regulations?	No								
Introduction into Commerce Date	09/14/2026	CAP2000 Conditional Certificate?	No						
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No						
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No						
SFTP LEV-III Composite Compliance Indicator	No								
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VJLXT03.0HTR						
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1						
OBD Deficiencies Comments	--								
Mfr Test Group Comments	--								
Mfr Exhaust / Evap Standards Comments	--								

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Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/11/2026 06:54:22 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Multi-barrier HDPE				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	CVVL				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	175	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	5				
Mfr Evaporative/Refueling Family Comments	175g single canister Tier 3 HLDT / LEV3 HLDT Option 2 (500mg Whole-vehicle + Canister Bleed).						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VJLXR0175P1B-001	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Jaguar Land Rover Limited	2 - Land Rover	177 - Discovery MHEV	California + CAA Section 177 states	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	177 - Discovery MHEV	Federal	4-Wheel Drive	Semi-Automatic	8	Yes
Engine Description							
Hybrid Type	IC Engine/Electric Motor			Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition			Mfr Engine Description	Jaguar Land Rover AJ20P6 3.0L I6 Gasoline direct Injection.		
Engine Block Arrangement	Inline			Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No			Oil Viscosity/Classification	0W20		
Number of Cylinders/Rotors	6			Mechanically Variable Compression Ratio Indicator	N		

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Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B								
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction							
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith							
Mfr After Treatment Device (ATD) Comments	In-line configuration engine - one aftertreatment system. Single can containing two in-line catalyst bricks. Upstream Heated Air Fuel Ratio sensor (HAFS), mid-brick Heated Exhaust Gas Oxygen sensor (HO2S), downstream Heated Exhaust Gas Oxygen sensor (HO2S)										
Direct Ozone Reduction (DOR) Device	Not Equipped										
Mfr Emission Control Device Comments	--										
Engine Configuration Number 1											
Engine Displacement (liters)	3.0	Engine Rated Horsepower	360								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged+Supercharged	Number of Air Aspiration Devices	2								
Air Aspiration Device Configuration	Both Parallel and Series	Charge Air Cooler Type	Liquid								
Air Aspiration Drive Method(s)	Electric, Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	Inlet and Exhaust Camshaft Phasing controlled by Engine Management System.										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	2	Number of Air/Fuel Sensors	3								
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 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	No										
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	Mechanical turbocharger and electronic supercharger.										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	--	--	--	--	--	--	--	--	--	--	--
Gasoline	SJLX10084767	SJLX10084769	SJLX10084770	SJLX10084771	SJLX10084771	SJLX10084768	19.7	228.2	27	286.1	--

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Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	SJLX10084767	SJLX10084769	SJLX10084770
Electricity	--	--	--
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Electricity	--	--	
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	48	Battery Energy Capacity	8
Battery Specific Energy	370	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Not applicable		
Regenerative Braking Source	--	Driver Controlled Regenerative Braking	--
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	AC Induction	Rated Motor/Generator Power	15
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
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Emission Data Vehicle Information

Vehicle ID / Configuration	3DRTT408 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	RJLXT03.0HTR	Original Evaporative/Refueling Family	RJLXR0175P1B
Original Test Vehicle Model Year	2024		

Vehicle Model

Represented Test Vehicle Make	Land Rover	Represented Test Vehicle Model	Discovery MHEV
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
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	3.0AJMM-19	Rated Horsepower	360
Displacement (liters)	3		
Air Aspiration Method	Turbocharged+Supercharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Both Parallel and Series
Charge Air Cooler Type	Liquid	Drive Mode While Testing	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5540	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	7075	N/V Ratio	25.4
Axle Ratio	3.55		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

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Test Group		VJLXT03.0HTR			Evaporative/Refueling Family		VJLXR0175P1B	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	53.4	0.207	0.02877	9.015	-0.07207	0.028006	18.1	
Cold CO	58.7	0.228	0.03165	9.015	-0.07207	0.028006	N/A	
US06	53.4	0.207	0.02877	9.015	-0.07207	0.028006	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Discovery 3.0L MHEV FEDV. 255/60R20 Pirelli Scorpion Zero Tires.						

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Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Test #	RJLX10082490	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	08/24/2023	Fuel	Gasoline
Fuel Batch ID	44900	Fuel Calibration Number	9289
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Jaguar Land Rover Limited		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3886	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	409.05	--
FE BAG 1 (Bag 1 Fuel Economy)	21.745	21.745
CO2 BAG 2 (Bag 2 Carbon Dioxide)	395.213	--
FE BAG 2 (Bag 2 Fuel Economy)	22.578	22.578
CO2 BAG 3 (Bag 3 Carbon Dioxide)	362.496	--
FE BAG 3 (Bag 3 Fuel Economy)	24.624	24.624
CO2 BAG 4 (Bag 4 Carbon Dioxide)	387.55	--
FE BAG 4 (Bag 4 Fuel Economy)	23.029	23.029
METHANE (CH4 - Methane)	0.0027	--
CO (Carbon Monoxide)	0.4227	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.066	--
DT-EER (Drive Trace Energy Economy Rating)	0.474	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.508	--
MFR FE (Manufacturer Fuel Economy)	23.054	23.054
NOX (Nitrogen Oxide)	0.0045	--
N2O (Nitrous Oxide)	0.0002	--
HC-NM (Non-methane Hydrocarbon)	0.0094	--
NMOG (Non-methane organic gases)	0.0097	--
PM (Particulate Matter)	0.0013	--
HC-TOTAL (Total Hydrocarbon)	0.0117	--

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Test Group		VJLXT03.0HTR				Evaporative/Refueling Family				VJLXR0175P1B		
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		387		388						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		386.8366		--						
Manufacturer Test Comments		Discovery FEDV 2xUDDS MFR Test No. C6 2023-08-24 06. 255/60R20 Pirelli Scorpion Zero Tires.										
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 30	CO	0.42	--	--	--	0.43	--	0.8	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	388	--	--	--	0	--	388	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0027	--	--	--	0.0029	--	0.006	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0002	--	--	--	0.0007	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0097	--	1.03	--	0.0024	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0142	--	--	--	--	--	0.017	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0045	--	--	--	0	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0013	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.42	--	--	--	0.43	--	0.8	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV30	N2O	0.0002	--	--	--	0.0007	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0097	--	1.03	--	0.0024	--	0.012	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0142	--	--	--	--	--	0.017	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0045	--	--	--	0	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0013	--	--	--	0	--	0.001	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

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Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Test #	RJLX10082491	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	08/23/2023	Fuel	Gasoline
Fuel Batch ID	44900	Fuel Calibration Number	9289
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Jaguar Land Rover Limited		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3835	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0	--	
CO (Carbon Monoxide)	0.2098	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.362	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.04	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.856	--	
MFR FE (Manufacturer Fuel Economy)	33.911	33.911	
NOX (Nitrogen Oxide)	0.0005	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0	--	
NMOG (Non-methane organic gases)	0	--	
HC-TOTAL (Total Hydrocarbon)	0	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	263	263	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	263.1351	--	
Manufacturer Test Comments	Discovery FEDV HWY MFR Test No. C6 2023-08-23 03. 255/60R20 Pirelli Scorpion Zero Tires.		

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Test Group		VJLXT03.0HTR			Evaporative/Refueling Family					VJLXR0175P1B		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	263	--	--	--	0	--	263	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0.0024	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0005	--	--	--	--	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0005	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0	--	1.03	--	0.0024	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0005	--	--	--	--	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0005	--	--	--	0	--	0	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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Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
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Emission Data Vehicle Information

Vehicle ID / Configuration	3DRTT408 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	SJLXT03.0HTR	Original Evaporative/Refueling Family	SJLXR0175P1Z
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Land Rover	Represented Test Vehicle Model	Discovery MHEV
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
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	3.0AJMM-19	Rated Horsepower	360
Displacement (liters)	3		
Air Aspiration Method	Turbocharged+Supercharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Both Parallel and Series
Charge Air Cooler Type	Liquid	Drive Mode While Testing	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5560	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	7075	N/V Ratio	37.3
Axle Ratio	3.55		
Transmission Type	Semi-Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family		VJLXR0175P1B	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	66.1	0.207	0.02903	19.761	-0.061	0.028239	19.9	
Cold CO	72.71	0.228	0.03193	19.761	-0.061	0.028239	N/A	
US06	66.1	0.207	0.02903	19.761	-0.061	0.028239	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Discovery 3.0L MHEV EDV. 255/60R19 Pirelli Scorpion Verde Tires.						

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Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Test #	SJLX10084767	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/20/2023	Fuel	Gasoline
Fuel Batch ID	W22321	Fuel Calibration Number	6049
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Jaguar Land Rover Limited		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4907	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	428.672	--	
FE BAG 1 (Bag 1 Fuel Economy)	20.184	20.184	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	410.23	--	
FE BAG 2 (Bag 2 Fuel Economy)	21.155	21.155	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	368.303	--	
FE BAG 3 (Bag 3 Fuel Economy)	23.552	23.552	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	396.472	--	
FE BAG 4 (Bag 4 Fuel Economy)	21.891	21.891	
METHANE (CH4 - Methane)	0.0035	--	
CO (Carbon Monoxide)	0.3729	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.456	--	
DT-EER (Drive Trace Energy Economy Rating)	0.2	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.322	--	
MFR FE (Manufacturer Fuel Economy)	21.763	21.763	
NOX (Nitrogen Oxide)	0.005	--	
N2O (Nitrous Oxide)	0.0004	--	
HC-NM (Non-methane Hydrocarbon)	0.0086	--	
NMOG (Non-methane organic gases)	0.0094	--	
PM (Particulate Matter)	0.0015	--	
HC-TOTAL (Total Hydrocarbon)	0.0114	--	

Certification Summary Information Report

Test Group				VJLXT03.0HTR				Evaporative/Refueling Family				VJLXR0175P1B			
				Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE							
				Carbon-Related Exhaust Emissions		398		999							
				Test Result Name		Unrounded Test Result		Verify Calculated CO2							
				Carbon dioxide		398.4567		--							
Manufacturer Test Comments				Discovery 3.0L MHEV. 255/65R19 Pirelli Scorpion Verde worst case tyres. EDV 2xUDDS MFR Test No. C6 2023-10-20 05. Driven in 'sport' mode (worst case) for EDV.											
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail			
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--			
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0035	--	--	--	0.0029	--	0.006	0.030	Pass			
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0004	--	--	--	0.0007	--	0.001	0.010	Pass			
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.37	--	--	--	0.43	--	0.8	1.0	Pass			
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0094	--	1.1	--	0.0024	--	0.012	999.999	Pass			
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0144	--	--	--	--	--	0.017	0.030	Pass			
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.005	--	--	--	0	--	0.005	999.999	Pass			
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0015	--	--	--	0	--	0.002	0.003	Pass			
CA	150,000 miles	California LEV-IV SULEV30	CO	0.37	--	--	--	0.43	--	0.8	1.0	Pass			
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0094	--	1.1	--	0.0024	--	0.012	99.999	Pass			
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0144	--	--	--	--	--	0.017	0.030	Pass			
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.005	--	--	--	0	--	0.005	99.999	Pass			
CA	150,000 miles	California LEV-IV SULEV30	PM	0.0015	--	--	--	0	--	0.002	0.003	Pass			
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.															

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Test #	SJLX10084771	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	11/03/2023	Fuel	Gasoline
Fuel Batch ID	W22321	Fuel Calibration Number	6049
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	MIRA Ltd		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4299	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	547.07	--
FE BAG 1 (Bag 1 Fuel Economy)	15.758	15.758
CO2 BAG 2 (Bag 2 Carbon Dioxide)	468.12	--
FE BAG 2 (Bag 2 Fuel Economy)	18.601	18.601
CO2 BAG 3 (Bag 3 Carbon Dioxide)	394.4	--
FE BAG 3 (Bag 3 Fuel Economy)	22.08	22.08
CO (Carbon Monoxide)	1.077	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.82	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.8	--
MFR FE (Manufacturer Fuel Economy)	18.7109	18.7109
NOX (Nitrogen Oxide)	0.0057	--
HC-NM (Non-methane Hydrocarbon)	0.0411	--
NMOG (Non-methane organic gases)	0.0452	--
HC-TOTAL (Total Hydrocarbon)	0.0504	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	464	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	464.24	--

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Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Test #	SJLX10084772	Test Procedure	51 - CA fuel 50 Deg(F) exhaust test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	11/14/2023	Fuel	Gasoline
Fuel Batch ID	W22321	Fuel Calibration Number	6049
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	MIRA Ltd		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4346	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	465.74	--	
FE BAG 1 (Bag 1 Fuel Economy)	18.663	18.663	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	430.23	--	
FE BAG 2 (Bag 2 Fuel Economy)	20.231	20.231	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	381.4	--	
FE BAG 3 (Bag 3 Fuel Economy)	22.833	22.833	
METHANE (CH4 - Methane)	0.0037	--	
CO (Carbon Monoxide)	0.5464	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.44	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.38	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.6	--	
MFR FE (Manufacturer Fuel Economy)	20.5147	20.5147	
NOX (Nitrogen Oxide)	0.0069	--	
HC-NM (Non-methane Hydrocarbon)	0.0136	--	
NMOG (Non-methane organic gases)	0.015	--	
PM (Particulate Matter)	0.00196	--	
HC-TOTAL (Total Hydrocarbon)	0.017	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	424	--	

Certification Summary Information Report

Test Group		VJLXT03.0HTR				Evaporative/Refueling Family				VJLXR0175P1B			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2						
		Carbon dioxide		424.2			--						
Manufacturer Test Comments				Discovery 3.0L MHEV. 255/65R19 Pirelli Scorpion Verde worst case tyres. EDV FTP50. Driven in 'sport' mode (worst case) for EDV. MFR Test Name: 14 November 2023 JLR L462 TT408 FTP EPA 75 3 Bag EngineStop 3 with PM.									
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 SULEV30	NMOG	0.015	--	1.1	--	0	--	0.015	999.999	Pass	
CA	4,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0219	--	--	--	--	--	0.022	0.060	Pass	
CA	4,000 miles	California LEV-IV SULEV30	NOX	0.0069	--	--	--	0	--	0.007	999.999	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B																																				
Test #	SJLX10084768	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																				
Test Date	10/20/2023	Fuel	Gasoline																																				
Fuel Batch ID	W22321	Fuel Calibration Number	6049																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	Jaguar Land Rover Limited																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	4112	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	Yes																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
Test Results																																							
<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr> </thead> <tbody> <tr> <td>METHANE (CH4 - Methane)</td><td>0.0001</td><td>--</td></tr> <tr> <td>CO (Carbon Monoxide)</td><td>0.3558</td><td>--</td></tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>8.051</td><td>--</td></tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td><td>1.147</td><td>--</td></tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>10.436</td><td>--</td></tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td><td>31.138</td><td>31.138</td></tr> <tr> <td>NOX (Nitrogen Oxide)</td><td>0.0003</td><td>--</td></tr> <tr> <td>N2O (Nitrous Oxide)</td><td>0.0001</td><td>--</td></tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td><td>0</td><td>--</td></tr> <tr> <td>NMOG (Non-methane organic gases)</td><td>0</td><td>--</td></tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td><td>0</td><td>--</td></tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	METHANE (CH4 - Methane)	0.0001	--	CO (Carbon Monoxide)	0.3558	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	8.051	--	DT-EER (Drive Trace Energy Economy Rating)	1.147	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	10.436	--	MFR FE (Manufacturer Fuel Economy)	31.138	31.138	NOX (Nitrogen Oxide)	0.0003	--	N2O (Nitrous Oxide)	0.0001	--	HC-NM (Non-methane Hydrocarbon)	0	--	NMOG (Non-methane organic gases)	0	--	HC-TOTAL (Total Hydrocarbon)	0	--
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HC-TOTAL (Total Hydrocarbon)	0	--																																					
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Manufacturer Test Comments	Discovery 3.0L MHEV. 255/65R19 Pirelli Scorpion Verde worst case tyres. EDV HWY MFR Test No. C6 2023-10-20 06. Driven in 'sport' mode (worst case) for EDV.																																						

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family					VJLXR0175P1B		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0.0024	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0003	--	--	--	--	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0003	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0	--	1.03	--	0.0024	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0003	--	--	--	--	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0003	--	--	--	0	--	0	999.999	Pass

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

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Test #	SJLX10084769	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/20/2023	Fuel	Gasoline
Fuel Batch ID	W22321	Fuel Calibration Number	6049
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Jaguar Land Rover Limited		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4132	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	747.877	--
FE BAG 1 (Bag 1 Fuel Economy)	11.436	11.436
CO2 BAG 2 (Bag 2 Carbon Dioxide)	384.384	--
FE BAG 2 (Bag 2 Fuel Economy)	22.416	22.416
CO (Carbon Monoxide)	3.1507	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.317	--
DT-EER (Drive Trace Energy Economy Rating)	0.289	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.718	--
MFR FE (Manufacturer Fuel Economy)	18.48	18.48
NOX (Nitrogen Oxide)	0.0042	--
HC-NM (Non-methane Hydrocarbon)	0.0011	--
NMOG (Non-methane organic gases)	0.0011	--
PM (Particulate Matter)	0.0016	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0053	--
HC-TOTAL (Total Hydrocarbon)	0.0047	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	465.0257	--

Certification Summary Information Report

Test Group		VJLXT03.0HTR				Evaporative/Refueling Family				VJLXR0175P1B		
Manufacturer Test Comments		Discovery 3.0L MHEV. 255/65R19 Pirelli Scorpion Verde worst case tyres. EDV US06 MFR Test No. C6 2023-10-20 07. Driven in 'sport' mode (worst case) for EDV.										
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 30	CO	3.15	--	--	--	0	--	3.2	9.6	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0011	--	1.03	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0053	--	--	--	--	--	0.01	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0042	--	--	--	0.0044	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	3.15	--	--	--	0	--	3.2	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0.0011	--	1.03	--	0	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0053	--	--	--	--	--	0.01	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0042	--	--	--	0.0044	--	0.009	99.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B																														
Test #	SJLX10084770	Test Procedure	95 - SC03																														
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																														
Test Date	10/23/2023	Fuel	Gasoline																														
Fuel Batch ID	W22321	Fuel Calibration Number	6049																														
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																														
Verify Test Lab ID	Jaguar Land Rover Limited																																
E10 Evaporative Test Measurement Method	--	Odometer Units	M																														
Test Start Odometer Reading	4156	Diesel Adjustment Factor Usage	--																														
4WD Test Dyno	Yes																																
State of Charge Delta	Yes																																
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																														
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HC-TOTAL (Total Hydrocarbon)	0.0021	--																															
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																															
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Manufacturer Test Comments	Discovery 3.0L MHEV. 255/65R19 Pirelli Scorpion Verde worst case tyres. EDV SC03 MFR Test No. C6 2023-10-23 06. Driven in 'sport' mode (worst case) for EDV.																																

Certification Summary Information Report

Test Group		VJLXT03.0HTR				Evaporative/Refueling Family				VJLXR0175P1B		
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 30	CO	0.8	--	--	--	0	--	1	1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0.0001	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0013	--	--	--	--	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0013	--	--	--	0.0018	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	CO	0.8	--	--	--	0	--	1	1	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG	0	--	1.03	--	0.0001	--	0	99.999	Pass
CA	150,000 miles	California LEV-IV SULEV30	NMOG+NOX	0.0013	--	--	--	--	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV30	NOX	0.0013	--	--	--	0.0018	--	0.003	99.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B						
Emission Data Vehicle Information									
Vehicle ID / Configuration	3KMVP032 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	NJLXT04.4GTE	Original Evaporative/Refueling Family	NJLXR0175P1B						
Original Test Vehicle Model Year	2022								
Vehicle Model									
Represented Test Vehicle Make	LAND ROVER	Represented Test Vehicle Model	New Range Rover						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	No						
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	4.4NC10-22	Rated Horsepower	530						
Displacement (liters)	4.4								
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	4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5705	Equivalent Test Weight (pounds)	6000						
GVWR (lbs)	7385	N/V Ratio	22.9						
Axle Ratio	3.31								
Transmission Type	Semi-Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	46.948	-0.11133	0.03423	50.874	-0.11143	0.034206	16.9
Cold CO	51.643	-0.12246	0.037653	50.874	-0.11143	0.034206	N/A
US06	46.948	-0.11133	0.03423	50.874	-0.11143	0.034206	N/A

Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	New Range Rover NC10 4.4 V8 Turbocharged LWB. 285/45R22 Tires. Evaps EDV.		

Test #	NJLX10072639	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	NJLX10072627	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	04/26/2021	Fuel	Gasoline
Fuel Batch ID	35047	Fuel Calibration Number	6681
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Jaguar Land Rover Limited		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4812	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.297	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.297	--

Manufacturer Test Comments	SET A 4K results 3D + HS (3 day using highest of the three values). New Range Rover 4.4L V8 TC.
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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	0.297	0	0.297	0.5	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.297	0	0.297	0.5	Pass

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B									
Test #	NJLX10072640	Test Procedure	38 - CA fuel 3-day evap.									
Exhaust Test # for this Evap Test	NJLX10072638	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline									
Test Date	05/05/2021	Fuel	Gasoline									
Fuel Batch ID	35047	Fuel Calibration Number	6681									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	Jaguar Land Rover Limited											
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)											
Test Start Odometer Reading	4864	Odometer Units	M									
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--									
State of Charge Delta	Yes											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--									
Test Results												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.322</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.322</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.322	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.322	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
HC-TOTAL (Total Hydrocarbon)	0.322	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.322	--										
Manufacturer Test Comments												
SET B 4K results 3D + HS (3 day using highest of the three values). New Range Rover 4.4L V8 TC.												
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	0.322	0	0.322	0.5	Pass				
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.322	0	0.322	0.5	Pass				

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B						
Test #	NJLX10072654	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	NJLX10072627	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	04/26/2021	Fuel	N/A						
Fuel Batch ID	35047	Fuel Calibration Number	6681						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Jaguar Land Rover Limited								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4812	Odometer Units	M						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.000508</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000508	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000508	--							
Manufacturer Test Comments	Running loss test for 4k SET A. New Range Rover 4.4L V9 TC.								

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B						
Test #	NJLX10072655	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	NJLX10072627	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	05/29/2021	Fuel	Gasoline						
Fuel Batch ID	35047	Fuel Calibration Number	6681						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Jaguar Land Rover Limited								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4812	Odometer Units	M						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC (Hydrocarbon for Running Loss and ORVR)</td> <td>0.073</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC (Hydrocarbon for Running Loss and ORVR)	0.073	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.073	--							
Manufacturer Test Comments									
ORVR TEST FOR 4K SET A. New Range Rover 4.4L V8 TC.									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	120,000 miles	Federal Tier 3 Evap	HC	0.073	0	0.07	0.2	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.073	0	0.07	0.2	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B						
Test #	NJLX10072656	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	NJLX10072638	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	05/05/2021	Fuel	N/A						
Fuel Batch ID	35047	Fuel Calibration Number	6681						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Jaguar Land Rover Limited								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4847	Odometer Units	M						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.000524</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000524	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000524	--							
Manufacturer Test Comments	Running loss test for 4k SET B. New Range Rover 4.4L V9 TC.								

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B						
Test #	NJLX10072657	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	NJLX10072638	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	06/04/2021	Fuel	Gasoline						
Fuel Batch ID	35047	Fuel Calibration Number	6681						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Jaguar Land Rover Limited								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4864	Odometer Units	M						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC (Hydrocarbon for Running Loss and ORVR)</td> <td>0.004</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC (Hydrocarbon for Running Loss and ORVR)	0.004	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.004	--							
Manufacturer Test Comments									
ORVR TEST FOR 4K SET B. New Range Rover 4.4L V8 TC.									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	120,000 miles	Federal Tier 3 Evap	HC	0.004	0	0	0.2	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.004	0	0	0.2	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B						
Test #	NJLX10073373	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	04/20/2018	Fuel	Gasoline						
Fuel Batch ID	35047	Fuel Calibration Number	6681						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Jaguar Land Rover Limited								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4812	Odometer Units	M						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0109</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.0109	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.0109	--							
Manufacturer Test Comments									
Test attached to original evap EDV to process in EV-CIS, but actual test is rig based and carried out by canister manufacturer.									
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	0.0109	0	0.011	0.02	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Fuel Properties			
Fuel Batch ID	35047	Fuel Calibration Number	6681
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	09/25/2020
Fuel Batch Calibration Effective Date	09/25/2020	Fuel Batch Calibration Ineffective Date	09/25/2024
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.738
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18040
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	44900	Fuel Calibration Number	9289
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	09/07/2021
Fuel Batch Calibration Effective Date	09/07/2021	Fuel Batch Calibration Ineffective Date	09/07/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.737
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18470
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.872	Weight Fraction CO2	--
Fuel Batch ID	W22321	Fuel Calibration Number	6049
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	01/31/2023
Fuel Batch Calibration Effective Date	01/31/2023	Fuel Batch Calibration Ineffective Date	01/31/2028
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17923
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family			VJLXR0175P1B	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
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	--	--	--	--	--	--	0.43	1.0
150,000 miles	N2O	--	--	--	--	--	--	0.0007	0.010
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0024	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0024	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family			VJLXR0175P1B	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			California fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0.0029	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0007	0.010
150,000 miles	CO	--	--	--	--	--	--	0.43	1.0
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0024	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	999.999

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family			VJLXR0175P1B	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
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	--	--	--	--	--	--	0.43	1.0
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	METHANE	--	--	--	--	--	--	0.0029	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0007	0.010
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0024	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			California 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	--	--	--	--	--	--	0.43	1.0
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0024	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family			VJLXR0175P1B	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	1
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0001	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0018	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.13	12.5

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family			VJLXR0175P1B	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
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	NMOG	--	--	1.1	--	--	--	0	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.060
4,000 miles	NOX	--	--	--	--	--	--	0	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	1
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0001	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0018	99.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.13	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.0017	0.5

Certification Summary Information Report

Test Group		VJLXT03.0HTR			Evaporative/Refueling Family			VJLXR0175P1B	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV SULEV30	
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	--	--	1.03	--	--	--	0.0024	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	999.999

Evaporative/Refueling Standards									
Evaporative/Refueling Family		VJLXR0175P1B			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	--		0.01		0		

Evaporative/Refueling Family		VJLXR0175P1B			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	--		0.500		0		

Evaporative/Refueling Family		VJLXR0175P1B			Cert Region			California + CAA Section 177 states	
Cert/In-Use Code		Both			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	--		0.020		0		

Evaporative/Refueling Family		VJLXR0175P1B			Cert Region			Federal	
Cert/In-Use Code		Both			Standard Level			Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)							
Fuel	Useful Life	Emission Name	Rounded Result		Std		Add DF		
Gasoline	120,000 miles	HC	--		0.20		0		

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Test Group		VJLXT03.0HTR		Evaporative/Refueling Family		VJLXR0175P1B	
Evaporative/Refueling Family		VJLXR0175P1B		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	--	0.500	0		
Evaporative/Refueling Family		VJLXR0175P1B		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0		
Evaporative/Refueling Family		VJLXR0175P1B		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	120,000 miles	HC	--	0.01	0		
Evaporative/Refueling Family		VJLXR0175P1B		Cert Region		Federal	
Cert/In-Use Code		Both		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	--	0.020	0		

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Test Group		VJLXT03.0HTR	Evaporative/Refueling Family	VJLXR0175P1B
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VJLXT03.0HTR	Evaporative/Refueling Family		VJLXR0175P1B
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		VJLXT03.0HTR	Evaporative/Refueling Family		VJLXR0175P1B
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VJLXT03.0HTR	Evaporative/Refueling Family		VJLXR0175P1B
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	