

Certification Summary Information Report

Manufacturer	Jaguar Land Rover Limited	Manufacturer Code	JLX
Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Certificate Number	VJLXT03.0PTC-002	CARB Executive Order #	--
Certificate Issue Date	04/27/2026	Certificate Revision Date	--
Certificate Effective Date	04/27/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	07/08/2026 05:41:17 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C					
Test Group Information								
CSI Type	Update for Correction	Running Change Reference Number	--					
GHG Exempt Status	Not Exempt							
Drive Sources and Fuel(s)								
Drive Source #1:	Electric Motor							
	<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>No</td> </tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Electricity	--	No	
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator						
Electricity	--	No						
Drive Source #2:	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						
Hybrid Indicator	Yes							
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes					
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes					
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	No					
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	07/06/2026	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	VJLXT03.0PTC					
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1					
OBD Deficiencies Comments	--							
Mfr Test Group Comments	Range Rover and Range Rover Sport PHEV							
Mfr Exhaust / Evap Standards Comments	--							

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/11/2026 07:04:05 AM				
Integrated ORVR?	No	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	Stainless Steel				
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	0	Bleed Canister Total Working Capacity (grams)	0				
Mfr Evaporative/Refueling Family Comments	175g single canister Tier 3 HLDT / LEV3 HLDT Option 2 (500mg Whole-vehicle).						
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				
VJLXR0175M1C-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	311 - Range Rover P550 PHEV	Federal	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	235 - Range Rover Sport P550 PHEV	Federal	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	309 - Range Rover P460 PHEV	California + CAA Section 177 states	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	234 - Range Rover Sport P460 PHEV	California + CAA Section 177 states	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	309 - Range Rover P460 PHEV	Federal	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	234 - Range Rover Sport P460 PHEV	Federal	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	311 - Range Rover P550 PHEV	California + CAA Section 177 states	4-Wheel Drive	Semi-Automatic	8	Yes
Jaguar Land Rover Limited	2 - Land Rover	235 - Range Rover Sport P550 PHEV	California + CAA Section 177 states	4-Wheel Drive	Semi-Automatic	8	Yes

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C	
Engine Description				
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--	
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	
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				
--				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
--				
Engine Configuration Number 1				
Engine Displacement (liters)	3.0	Engine Rated Horsepower	460	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1	
Air Aspiration Device Configuration	Single	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	Inlet and Exhaust Camshaft Phasing controlled by Engine Management System.			
Variable Valve Lift?	Yes			
Variable Valve Lift System Description	Continuously Variable Valve Lift system for the intake valves only			
Number of Knock Sensors	3	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	--			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C								
Engine Configuration Number 2											
Engine Displacement (liters)	3.0	Engine Rated Horsepower	550								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1								
Air Aspiration Device Configuration	Single	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	Inlet and Exhaust Camshaft Phasing controlled by Engine Management System.										
Variable Valve Lift?	Yes										
Variable Valve Lift System Description	Continuously Variable Valve Lift system for the intake valves only										
Number of Knock Sensors	3	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	--	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
Electricity	--	--	--	--	--	--	--	--	--	--	--
Gasoline	PJLX10075656	PJLX10075658	PJLX10075659	PJLX10075663	PJLX10075667	22.2	228.2	29.5	286.1	--	
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline	PJLX10075656	PJLX10075658	PJLX10075659								
Electricity	--	--	--								

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Electricity	TJLX10092507	TJLX10092508	
Gasoline	TJLX10092507	TJLX10092508	
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	398	Battery Energy Capacity	96
Battery Specific Energy	38.2	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	DC Permanent Magnet, brushless	Rated Motor/Generator Power	105
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Battery nominal capacity is 96 Ah, rated capacity is 75 Ah.		

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
-------------------	--------------	-------------------------------------	--------------

Emission Data Vehicle Information

Vehicle ID / Configuration	3KNHT319 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	PJLXT03.0PTC	Original Evaporative/Refueling Family	PJLXR0175M1C
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	LAND ROVER	Represented Test Vehicle Model	New Range Rover PHEV
--------------------------------------	------------	---------------------------------------	----------------------

Leak Family Details

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

Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	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	3.0AJPH-23	Rated Horsepower	510
Displacement (liters)	3		
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)	6275	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7605	N/V Ratio	26.8
Axle Ratio	3.73		
Transmission Type	Automatic	# of Transmission Gears	1
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family		VJLXR0175M1C	
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	66.274	-0.42092	0.03418	9.554	-0.51339	0.032338	17.4	
Cold CO	72.901	-0.46302	0.0376	9.554	-0.51339	0.032338	N/A	
US06	66.274	-0.42092	0.03418	9.554	-0.51339	0.032338	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		New Range Rover 3.0L I6 PHEV.						

Certification Summary Information Report

Test Group	VJLXT03.OPTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	PJLX10075656	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	02/19/2022	Fuel	Gasoline
Fuel Batch ID	40724	Fuel Calibration Number	6681
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4632	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)	434.055	--
FE BAG 1 (Bag 1 Fuel Economy)	20.035	20.035
CO2 BAG 2 (Bag 2 Carbon Dioxide)	358.988	--
FE BAG 2 (Bag 2 Fuel Economy)	24.252	24.252
CO2 BAG 3 (Bag 3 Carbon Dioxide)	343.509	--
FE BAG 3 (Bag 3 Fuel Economy)	25.343	25.343
CO2 BAG 4 (Bag 4 Carbon Dioxide)	365.014	--
FE BAG 4 (Bag 4 Fuel Economy)	23.855	23.855
METHANE (CH4 - Methane)	0.0029	--
CO (Carbon Monoxide)	0.2036	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.325	--
DT-EER (Drive Trace Energy Economy Rating)	-2.058	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.968	--
MFR FE (Manufacturer Fuel Economy)	23.212	23.212
NOX (Nitrogen Oxide)	0.01	--
N2O (Nitrous Oxide)	0.0006	--
HC-NM (Non-methane Hydrocarbon)	0.0075	--
NMOG (Non-methane organic gases)	0.0078	--
PM (Particulate Matter)	0.0007	--
HC-TOTAL (Total Hydrocarbon)	0.0098	--

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		375		999						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		374.9495		--						
Manufacturer Test Comments		New Range Rover 3.0L PHEV Charge Sustain FTP75 (2xUDDS) E10 Premium. MFR Test No. C1 2022-02-19 01. 285/45R22 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	120,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0029	--	--	--	0.0029	--	0.006	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0006	--	--	--	0.0007	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.2	--	--	--	0.43	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0078	--	1.1	--	0.0024	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0178	--	--	--	--	--	0.02	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.01	--	--	--	0	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0007	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.2	--	--	--	0.43	--	0.6	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	N2O	0.0006	--	--	--	0.0007	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0078	--	1.1	--	0.0024	--	0.01	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0178	--	--	--	--	--	0.02	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.01	--	--	--	0	--	0.01	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0007	--	--	--	0	--	0.001	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	PJLX10075663	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	03/11/2022	Fuel	Gasoline
Fuel Batch ID	40724	Fuel Calibration Number	6681
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	5635	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)	556.74	--
FE BAG 1 (Bag 1 Fuel Economy)	15.607	15.607
CO2 BAG 2 (Bag 2 Carbon Dioxide)	403.6	--
FE BAG 2 (Bag 2 Fuel Economy)	21.584	21.584
CO2 BAG 3 (Bag 3 Carbon Dioxide)	385.45	--
FE BAG 3 (Bag 3 Fuel Economy)	22.596	22.596
METHANE (CH4 - Methane)	0.0031	--
CO (Carbon Monoxide)	0.3067	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.49	--
DT-EER (Drive Trace Energy Economy Rating)	-1.79	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.13	--
MFR FE (Manufacturer Fuel Economy)	20.2308	20.2308
NOX (Nitrogen Oxide)	0.009	--
HC-NM (Non-methane Hydrocarbon)	0.0143	--
NMOG (Non-methane organic gases)	0.0157	--
PM (Particulate Matter)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0171	--

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

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C			
		Test Result Name		Unrounded Test Result				Verify Calculated CO2					
		Carbon dioxide		430.28				--					
Manufacturer Test Comments		New Range Rover 3.0L PHEV 285/45R22 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	50,000 miles	Federal Tier 3 Bin 30	CO	0.31	--	--	--	0.013	--	0.3	12.5	Pass	
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.01	--	--	--	0.0017	--	0	0.3	Pass	
CA	50,000 miles	California LEV-III SULEV30	CO	0.31	--	--	--	0.013	--	0.3	12.5	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	PJLX10076934	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	04/01/2022	Fuel	Gasoline
Fuel Batch ID	40724	Fuel Calibration Number	6681
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	MIRA Ltd		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5652	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)	475.57	--
FE BAG 1 (Bag 1 Fuel Economy)	18.294	18.294
CO2 BAG 2 (Bag 2 Carbon Dioxide)	355.12	--
FE BAG 2 (Bag 2 Fuel Economy)	24.534	24.534
CO2 BAG 3 (Bag 3 Carbon Dioxide)	379.42	--
FE BAG 3 (Bag 3 Fuel Economy)	22.952	22.952
METHANE (CH4 - Methane)	0.0023	--
CO (Carbon Monoxide)	0.197	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.62	--
DT-EER (Drive Trace Energy Economy Rating)	-1.98	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.93	--
MFR FE (Manufacturer Fuel Economy)	22.5127	22.5127
NOX (Nitrogen Oxide)	0.0091	--
HC-NM (Non-methane Hydrocarbon)	0.0087	--
NMOG (Non-methane organic gases)	0.0096	--
PM (Particulate Matter)	0.00063	--
HC-TOTAL (Total Hydrocarbon)	0.0108	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	387	--

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		386.81			--					
Manufacturer Test Comments		New Range Rover 3.0L PHEV 285/45R22 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
CA	50,000 miles	California LEV-III SULEV30	NMOG	0.0096	--	1.1	--	0.0024	--	0.012	999.999	Pass
CA	50,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0187	--	--	--	--	--	0.021	0.060	Pass
CA	50,000 miles	California LEV-III SULEV30	NOX	0.0091	--	--	--	0	--	0.009	999.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.OPTC	Evaporative/Refueling Family	VJLXR0175M1C																																				
Test #	PJLX10075657	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline																																				
Test Date	02/19/2022	Fuel	Gasoline																																				
Fuel Batch ID	40724	Fuel Calibration Number	6681																																				
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4652	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	No																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
Test Results																																							
<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>0.0018</td> <td>--</td> </tr> <tr> <td>CO (Carbon Monoxide)</td> <td>0.1345</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>-1.592</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>-0.998</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>-1.635</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>32.923</td> <td>32.923</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.0018</td> <td>--</td> </tr> <tr> <td>N2O (Nitrous Oxide)</td> <td>0.0002</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.0011</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.0011</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0027</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	METHANE (CH4 - Methane)	0.0018	--	CO (Carbon Monoxide)	0.1345	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.592	--	DT-EER (Drive Trace Energy Economy Rating)	-0.998	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.635	--	MFR FE (Manufacturer Fuel Economy)	32.923	32.923	NOX (Nitrogen Oxide)	0.0018	--	N2O (Nitrous Oxide)	0.0002	--	HC-NM (Non-methane Hydrocarbon)	0.0011	--	NMOG (Non-methane organic gases)	0.0011	--	HC-TOTAL (Total Hydrocarbon)	0.0027	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																					
METHANE (CH4 - Methane)	0.0018	--																																					
CO (Carbon Monoxide)	0.1345	--																																					
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.592	--																																					
DT-EER (Drive Trace Energy Economy Rating)	-0.998	--																																					
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.635	--																																					
MFR FE (Manufacturer Fuel Economy)	32.923	32.923																																					
NOX (Nitrogen Oxide)	0.0018	--																																					
N2O (Nitrous Oxide)	0.0002	--																																					
HC-NM (Non-methane Hydrocarbon)	0.0011	--																																					
NMOG (Non-methane organic gases)	0.0011	--																																					
HC-TOTAL (Total Hydrocarbon)	0.0027	--																																					
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>264</td> <td>999</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	264	999																														
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																					
Carbon-Related Exhaust Emissions	264	999																																					
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>264.3884</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	264.3884	--																														
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																					
Carbon dioxide	264.3884	--																																					
Manufacturer Test Comments	New Range Rover 3.0L MHEV Highway. MFR Test No. C1 2022-02-19 02 285/45R22 Tires.																																						

Certification Summary Information Report

Test Group		VJLXT03.OPTC			Evaporative/Refueling Family					VJLXR0175M1C		
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	0.0011	--	1.1	--	0.0024	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0029	--	--	--	--	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0018	--	--	--	0	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0011	--	1.1	--	0.0024	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0029	--	--	--	--	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0018	--	--	--	0	--	0.002	99.999	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	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	PJLX10075658	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	05/05/2022	Fuel	Gasoline
Fuel Batch ID	40724	Fuel Calibration Number	6681
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	5649	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)	502.908	--	
FE BAG 1 (Bag 1 Fuel Economy)	17.286	17.286	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	354.546	--	
FE BAG 2 (Bag 2 Fuel Economy)	24.528	24.528	
CO (Carbon Monoxide)	0.4605	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.668	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.965	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.699	--	
MFR FE (Manufacturer Fuel Economy)	22.443	22.443	
NOX (Nitrogen Oxide)	0.0044	--	
HC-NM (Non-methane Hydrocarbon)	0.0001	--	
NMOG (Non-methane organic gases)	0.0001	--	
PM (Particulate Matter)	0.0008	--	
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0045	--	
HC-TOTAL (Total Hydrocarbon)	0.0005	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	387.4464	--	
Manufacturer Test Comments			
New Range Rover 3.0L PHEV US06. MFR Test No. C6 2022-05-05 15 285/45R22 Tires.			

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
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	0.46	--	--	--	0	--	0.5	9.6	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0001	--	1.03	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0045	--	--	--	--	--	0.009	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0044	--	--	--	0.0044	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.46	--	--	--	0	--	0.5	9.6	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0001	--	1.03	--	0	--	0	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0045	--	--	--	--	--	0.009	0.050	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0044	--	--	--	0.0044	--	0.009	99.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																														
Test #	PJLX10075659	Test Procedure	95 - SC03																														
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline																														
Test Date	02/19/2022	Fuel	Gasoline																														
Fuel Batch ID	40724	Fuel Calibration Number	6681																														
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4688	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>CO (Carbon Monoxide)</td> <td>0.3598</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>99.99</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>99.99</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>99.99</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>20.403</td> <td>20.403</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.0028</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)	CO (Carbon Monoxide)	0.3598	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	99.99	--	DT-EER (Drive Trace Energy Economy Rating)	99.99	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	99.99	--	MFR FE (Manufacturer Fuel Economy)	20.403	20.403	NOX (Nitrogen Oxide)	0.0028	--	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 FE Equivalent Value (miles per gallon)																															
CO (Carbon Monoxide)	0.3598	--																															
DT-ASCR (Drive Trace Absolute Speed Change Rating)	99.99	--																															
DT-EER (Drive Trace Energy Economy Rating)	99.99	--																															
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	99.99	--																															
MFR FE (Manufacturer Fuel Economy)	20.403	20.403																															
NOX (Nitrogen Oxide)	0.0028	--																															
HC-NM (Non-methane Hydrocarbon)	0	--																															
NMOG (Non-methane organic gases)	0	--																															
HC-TOTAL (Total Hydrocarbon)	0	--																															
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>426.4061</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	426.4061	--																								
Test Result Name	Unrounded Test Result	Verify Calculated CO2																															
Carbon dioxide	426.4061	--																															
Manufacturer Test Comments	New Range Rover 3.0L PHEV. MFR Test No. C1 2022-02-19 05. 285/45R22 Tires.																																

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
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	0.36	--	--	--	0	--	0.4	3.2	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	0.0028	--	--	--	--	--	0.005	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0028	--	--	--	0.0018	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.36	--	--	--	0	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0	--	1.03	--	0.0001	--	0	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0028	--	--	--	--	--	0.005	0.020	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0028	--	--	--	0.0018	--	0.005	99.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
-------------------	--------------	-------------------------------------	--------------

Emission Data Vehicle Information

Vehicle ID / Configuration	3PNM1021 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	PJLXT03.0PTC	Original Evaporative/Refueling Family	PJLXR0175M1C
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	LAND ROVER	Represented Test Vehicle Model	New Range Rover PHEV
--------------------------------------	------------	---------------------------------------	----------------------

Leak Family Details

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

Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	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	3.0AJPH-23	Rated Horsepower	440
Displacement (liters)	3		
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)	6275	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7605	N/V Ratio	26.8
Axle Ratio	3.73		
Transmission Type	Automatic	# of Transmission Gears	1
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
-------------------	--------------	-------------------------------------	--------------

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	66.274	-0.42077	0.03418	9.554	-0.51339	0.032338	17.4
Cold CO	72.901	-0.46285	0.0376	9.554	-0.51339	0.032338	N/A
US06	66.274	-0.42077	0.03418	9.554	-0.51339	0.032338	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments New Range Rover 3.0L I6 PHEV Evaps EDV.

Test #	PJLX10075832	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	PJLX10075656	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	09/17/2021	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	4309	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-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.223	--

Manufacturer Test Comments SET A 4K results 3D + HS (3 day using highest of the three values). 3 day = 0.192, HS = 0.031.

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	0.223	0	0.223	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.223	0	0.223	0.5	Pass

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C						
Test #	PJLX10075835	Test Procedure	38 - CA fuel 3-day evap.						
Exhaust Test # for this Evap Test	PJLX10075656	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	10/15/2021	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	5832	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"> <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-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.19</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.19	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.19	--							
Manufacturer Test Comments									
SET B 4K results 3D + HS (3d using highest of the three values). 3 Day = 0.158, Hot Soak = 0.032.									
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	0.19	0	0.19	0.5	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.19	0	0.19	0.5	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C						
Test #	PJLX10075839	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	PJLX10075656	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	09/17/2021	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	4309	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"> <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-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.00053</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00053	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00053	--							
Manufacturer Test Comments									
Running loss test for 4k SET A.									
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-TOTAL-EQUIV	0.001	0	0	0.01	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.001	0	0	0.01	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C						
Test #	PJLX10075874	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	PJLX10075656	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	10/08/2021	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	5491	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"> <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>0.03642</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)	0.03642	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.03642	--							
Manufacturer Test Comments									
ORVR TEST FOR 4K SET B.									
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	0.036	0	0.04	0.2	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.036	0	0.04	0.2	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C						
Test #	PJLX10075875	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	PJLX10075656	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	10/14/2021	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	5832	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"> <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-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.000588</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000588	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000588	--							
Manufacturer Test Comments									
Running loss test for 4k SET B.									
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-TOTAL-EQUIV	0.001	0	0	0.01	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.001	0	0	0.01	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C						
Test #	PJLX10076933	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	PJLX10075656	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	09/21/2021	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	4727	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"> <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>0.005307</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)	0.005307	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.005307	--							
Manufacturer Test Comments									
ORVR TEST FOR 4K SET A.									
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	0.005	0	0	0.2	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.005	0	0	0.2	Pass	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
-------------------	--------------	-------------------------------------	--------------

Emission Data Vehicle Information

Vehicle ID / Configuration	3RRTT075 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TJLXT03.0PTC	Original Evaporative/Refueling Family	TJLXR0175M1C
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	LAND ROVER	Represented Test Vehicle Model	Range Rover PHEV
--------------------------------------	------------	---------------------------------------	------------------

Leak Family Details

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

Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	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	3.0AJPM-23	Rated Horsepower	550
Displacement (liters)	3		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
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)	6497	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7672	N/V Ratio	25.8
Axle Ratio	3.73		
Transmission Type	Automatic	# of Transmission Gears	1
Transmission Lockup	Yes	Creep Gear	No

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family		VJLXR0175M1C	
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	60.9	-0.223	0.03254	60.901	-0.22287	0.032542	17.5	
Cold CO	66.99	-0.2453	0.035794	60.901	-0.22287	0.032542	N/A	
US06	60.9	-0.223	0.03254	60.901	-0.22287	0.032542	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Range Rover 3.0L I6 PHEV FEDV. 255/60R20 Michelin Primacy Tires.						

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10091393	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	06/16/2025	Fuel	Gasoline
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4000	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)	356.2	--
FE BAG 1 (Bag 1 Fuel Economy)	24.8865	24.8865
CO2 BAG 2 (Bag 2 Carbon Dioxide)	331.4	--
FE BAG 2 (Bag 2 Fuel Economy)	26.7525	26.7525
METHANE (CH4 - Methane)	0.0024	--
CO (Carbon Monoxide)	0.1957	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.495	--
DT-EER (Drive Trace Energy Economy Rating)	-0.658	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.676	--
MFR FE (Manufacturer Fuel Economy)	25.9169	25.9169
NOX (Nitrogen Oxide)	0.0065	--
N2O (Nitrous Oxide)	0.0005	--
HC-NM (Non-methane Hydrocarbon)	0.0034	--
NMOG (Non-methane organic gases)	0.0035	--
PM (Particulate Matter)	0.0012	--
HC-TOTAL (Total Hydrocarbon)	0.0052	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	342	342

Page 31 of 93 CSI Submission/Revision Date: 07/08/2026 05:41:17 AM

Certification Summary Information Report

Test Group		VJLXT03.OPTC			Evaporative/Refueling Family					VJLXR0175M1C		
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	0.2	--	--	--	0.43	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.2	--	--	--	0.43	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	342	--	--	--	0	--	342	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	342	--	--	--	0	--	342	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0024	--	--	--	0.0029	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0024	--	--	--	0.0029	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0005	--	--	--	0.0007	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0005	--	--	--	0.0007	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0035	--	1.04	--	0.0024	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0035	--	1.04	--	0.0024	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.01	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.01	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0065	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0065	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0012	--	--	--	0	--	0.001	0.003	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0012	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.2	--	--	--	0.43	--	0.6	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CREE	342	--	--	--	0	--	342	--	--
CA	150,000 miles	California LEV-III SULEV30	METHANE	0.0024	--	--	--	0.0029	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	N2O	0.0005	--	--	--	0.0007	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0035	--	1.04	--	0.0024	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.01	--	--	--	--	--	0.012	0.030	Pass

Certification Summary Information Report

Test Group		VJLXT03.OPTC				Evaporative/Refueling Family				VJLXR0175M1C		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0065	--	--	--	0	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0012	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0012	--	--	--	0	--	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10091394	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/16/2025	Fuel	Gasoline
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4015	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0002	--
CO (Carbon Monoxide)	0.1946	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.362	--
DT-EER (Drive Trace Energy Economy Rating)	-0.911	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.702	--
MFR FE (Manufacturer Fuel Economy)	35.1875	35.1875
NOX (Nitrogen Oxide)	0.0004	--
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	252	252

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	252.2	--

Manufacturer Test Comments

Range Rover 3.0L MHEV Highway. Updated for NEC correction. MFR Test No. CDC6 2025-06-16 09 255/60R20 Michelin Primacy Tires.

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
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	252	--	--	--	0	--	252	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.1	--	0.0024	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0004	--	--	--	--	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0004	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0	--	1.1	--	0.0024	--	0.002	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0004	--	--	--	--	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0004	--	--	--	0	--	0	99.999	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	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10091395	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/16/2025	Fuel	Gasoline
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4052	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)	569.7	--
FE BAG 1 (Bag 1 Fuel Economy)	15.4503	15.4503
CO2 BAG 2 (Bag 2 Carbon Dioxide)	356.4	--
FE BAG 2 (Bag 2 Fuel Economy)	24.8487	24.8487
CO (Carbon Monoxide)	0.4423	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.176	--
DT-EER (Drive Trace Energy Economy Rating)	-2.154	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.651	--
MFR FE (Manufacturer Fuel Economy)	21.9768	21.9768
NOX (Nitrogen Oxide)	0.0041	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
PM (Particulate Matter)	0.0046	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0041	--
HC-TOTAL (Total Hydrocarbon)	0.0006	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	403.4	--

Manufacturer Test Comments

Range Rover 3.0L PHEV Charge Sustain US06 E0. Updated for NEC correction MFR Test No. CDC6 2025-06-16 12. 255/60R20 Michelin Primacy Tires.

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
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	0.44	--	--	--	0	--	0.4	9.6	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0041	--	--	--	--	--	0.008	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0041	--	--	--	0.0044	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.44	--	--	--	0	--	0.4	9.6	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0	--	1.03	--	0	--	0	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0041	--	--	--	--	--	0.008	0.050	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0041	--	--	--	0.0044	--	0.008	99.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																
Test #	TJLX10092507	Test Procedure	81 - Charge Depleting UDDS																																
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																
Test Date	09/12/2025	Fuel	N/A																																
Fuel Batch ID	63623	Fuel Calibration Number	4091																																
Vehicle Class	N/A	DF Type	Mfr. Determined																																
Verify Test Lab ID	Jaguar Land Rover Limited																																		
E10 Evaporative Test Measurement Method	--																																		
Test Start Odometer Reading	7208	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																																
PHEV/EV Charge Depleting Test Information																																			
Recharge Event Voltage	237.6	Recharge Event Energy (kiloWatt-hours)	31.7																																
Charge Depleting Range (Calculated miles)	69.071	Charge Depleting Range (Actual miles)	69.453																																
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017																																
All Electric Range Unadjusted (miles)	68.683	Equivalent All Electric Range (miles)	69.453																																
Number of Charge Depleting Bags/Phases Conducted	12	Transition Bag/Phase Number	10																																
Charge Depleting Bag/Phase #1																																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.466</td></tr><tr><td>Average System Voltage</td><td>445.55</td></tr><tr><td>Carbon Monoxide</td><td>0.0011</td></tr><tr><td>Carbon dioxide</td><td>0.2269</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.67</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.15</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-1.08</td></tr><tr><td>Integrated Amp-hours</td><td>7.321</td></tr><tr><td>Manufacturer Fuel Economy</td><td>999.999</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0.0006</td></tr><tr><td>Non-methane organic gases</td><td>0.0006</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Total Hydrocarbon</td><td>0.0005</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.466	Average System Voltage	445.55	Carbon Monoxide	0.0011	Carbon dioxide	0.2269	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.67	Drive Trace Energy Economy Rating	-1.15	Drive Trace Inertia Work Ratio Rating	-1.08	Integrated Amp-hours	7.321	Manufacturer Fuel Economy	999.999	Nitrogen Oxide	0	Non-methane Hydrocarbon	0.0006	Non-methane organic gases	0.0006	Non-methane organic gases plus Nitrogen Oxides	999.999	Total Hydrocarbon	0.0005
Test Result/Emission Name	Unrounded Test Result																																		
Actual Distance Driven (miles)	7.466																																		
Average System Voltage	445.55																																		
Carbon Monoxide	0.0011																																		
Carbon dioxide	0.2269																																		
Carbon-Related Exhaust Emissions	0																																		
Drive Trace Absolute Speed Change Rating	-0.67																																		
Drive Trace Energy Economy Rating	-1.15																																		
Drive Trace Inertia Work Ratio Rating	-1.08																																		
Integrated Amp-hours	7.321																																		
Manufacturer Fuel Economy	999.999																																		
Nitrogen Oxide	0																																		
Non-methane Hydrocarbon	0.0006																																		
Non-methane organic gases	0.0006																																		
Non-methane organic gases plus Nitrogen Oxides	999.999																																		
Total Hydrocarbon	0.0005																																		
Charge Depleting Bag/Phase #2																																			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.408	
	Average System Voltage	440.27	
	Carbon Monoxide	0.0002	
	Carbon dioxide	0.1581	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	1.78	
	Drive Trace Energy Economy Rating	1.25	
	Drive Trace Inertia Work Ratio Rating	1.98	
	Integrated Amp-hours	14.174	
	Manufacturer Fuel Economy	999.999	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.477
Average System Voltage	430.02
Carbon Monoxide	0.0001
Carbon dioxide	0.1425
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.38
Drive Trace Energy Economy Rating	-0.91
Drive Trace Inertia Work Ratio Rating	-0.62
Integrated Amp-hours	21.104
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.0005
Non-methane organic gases	0.0005
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0001

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.466	
	Average System Voltage	422.91	
	Carbon Monoxide	0	
	Carbon dioxide	0.1118	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.67	
	Drive Trace Energy Economy Rating	-0.75	
	Drive Trace Inertia Work Ratio Rating	-1.03	
	Integrated Amp-hours	28.043	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.472
Average System Voltage	415.23
Carbon Monoxide	0
Carbon dioxide	0.1531
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.58
Drive Trace Energy Economy Rating	0.752
Drive Trace Inertia Work Ratio Rating	0.752
Integrated Amp-hours	35.135
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0003

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.441	
	Average System Voltage	407.38	
	Carbon Monoxide	0	
	Carbon dioxide	0.0788	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	0.43	
	Drive Trace Energy Economy Rating	0.186	
	Drive Trace Inertia Work Ratio Rating	0.347	
	Integrated Amp-hours	42.284	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0.0325	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.474
Average System Voltage	399.17
Carbon Monoxide	0
Carbon dioxide	0.0575
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.29
Drive Trace Energy Economy Rating	-0.675
Drive Trace Inertia Work Ratio Rating	-0.221
Integrated Amp-hours	49.448
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.0002
Non-methane organic gases	0.0002
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.469	
	Average System Voltage	392.83	
	Carbon Monoxide	0.0002	
	Carbon dioxide	0.139	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.24	
	Drive Trace Energy Economy Rating	-0.13	
	Drive Trace Inertia Work Ratio Rating	-0.22	
	Integrated Amp-hours	56.64	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #9

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.439
Average System Voltage	383.51
Carbon Monoxide	0
Carbon dioxide	0.1475
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.01
Drive Trace Energy Economy Rating	0.57
Drive Trace Inertia Work Ratio Rating	1.77
Integrated Amp-hours	64.349
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0003

Charge Depleting Bag/Phase #10

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.457	
	Average System Voltage	380.84	
	Carbon Monoxide	0.3354	
	Carbon dioxide	262.3701	
	Carbon-Related Exhaust Emissions	262	
	Drive Trace Absolute Speed Change Rating	2.25	
	Drive Trace Energy Economy Rating	1.4	
	Drive Trace Inertia Work Ratio Rating	3.05	
	Integrated Amp-hours	66.061	
	Manufacturer Fuel Economy	33.75	
	Nitrogen Oxide	0.0101	
	Non-methane Hydrocarbon	0.02548	
	Non-methane organic gases	0.02624	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0.0338	

Charge Depleting Bag/Phase #11

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.451
Average System Voltage	382.03
Carbon Monoxide	0.2143
Carbon dioxide	355.0809
Carbon-Related Exhaust Emissions	355
Drive Trace Absolute Speed Change Rating	1.28
Drive Trace Energy Economy Rating	0.498
Drive Trace Inertia Work Ratio Rating	2.065
Integrated Amp-hours	65.555
Manufacturer Fuel Economy	24.975
Nitrogen Oxide	0.0056
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0007

Charge Depleting Bag/Phase #12

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.451</td></tr><tr><td>Average System Voltage</td><td>383.28</td></tr><tr><td>Carbon Monoxide</td><td>0.2751</td></tr><tr><td>Carbon dioxide</td><td>359.1459</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>359</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>1.76</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.68</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>2.477</td></tr><tr><td>Integrated Amp-hours</td><td>64.988</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.686</td></tr><tr><td>Nitrogen Oxide</td><td>0.0089</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Total Hydrocarbon</td><td>0.0006</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.451	Average System Voltage	383.28	Carbon Monoxide	0.2751	Carbon dioxide	359.1459	Carbon-Related Exhaust Emissions	359	Drive Trace Absolute Speed Change Rating	1.76	Drive Trace Energy Economy Rating	0.68	Drive Trace Inertia Work Ratio Rating	2.477	Integrated Amp-hours	64.988	Manufacturer Fuel Economy	24.686	Nitrogen Oxide	0.0089	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	Total Hydrocarbon	0.0006	
	Test Result/Emission Name	Unrounded Test Result																																	
	Actual Distance Driven (miles)	7.451																																	
	Average System Voltage	383.28																																	
	Carbon Monoxide	0.2751																																	
	Carbon dioxide	359.1459																																	
	Carbon-Related Exhaust Emissions	359																																	
	Drive Trace Absolute Speed Change Rating	1.76																																	
	Drive Trace Energy Economy Rating	0.68																																	
	Drive Trace Inertia Work Ratio Rating	2.477																																	
	Integrated Amp-hours	64.988																																	
	Manufacturer Fuel Economy	24.686																																	
	Nitrogen Oxide	0.0089																																	
	Non-methane Hydrocarbon	0																																	
	Non-methane organic gases	0																																	
	Non-methane organic gases plus Nitrogen Oxides	999.999																																	
	Total Hydrocarbon	0.0006																																	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																
Test #	TJLX10092508	Test Procedure	84 - Charge Depleting Highway																																
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																
Test Date	06/17/2025	Fuel	N/A																																
Fuel Batch ID	63623	Fuel Calibration Number	4091																																
Vehicle Class	N/A	DF Type	Mfr. Determined																																
Verify Test Lab ID	Jaguar Land Rover Limited																																		
E10 Evaporative Test Measurement Method	--																																		
Test Start Odometer Reading	4075	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																																
PHEV/EV Charge Depleting Test Information																																			
Recharge Event Voltage	238.4	Recharge Event Energy (kiloWatt-hours)	32.3																																
Charge Depleting Range (Calculated miles)	75.635	Charge Depleting Range (Actual miles)	76.057																																
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017																																
All Electric Range Unadjusted (miles)	75.584	Equivalent All Electric Range (miles)	76.057																																
Number of Charge Depleting Bags/Phases Conducted	12	Transition Bag/Phase Number	8																																
Charge Depleting Bag/Phase #1																																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.2458</td></tr><tr><td>Average System Voltage</td><td>441.74</td></tr><tr><td>Carbon Monoxide</td><td>0.0007</td></tr><tr><td>Carbon dioxide</td><td>0.1331</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.009</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.47</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.065</td></tr><tr><td>Integrated Amp-hours</td><td>8.792</td></tr><tr><td>Manufacturer Fuel Economy</td><td>999.999</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0.0005</td></tr><tr><td>Non-methane organic gases</td><td>0.0005</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Total Hydrocarbon</td><td>0.0006</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.2458	Average System Voltage	441.74	Carbon Monoxide	0.0007	Carbon dioxide	0.1331	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.009	Drive Trace Energy Economy Rating	-0.47	Drive Trace Inertia Work Ratio Rating	-0.065	Integrated Amp-hours	8.792	Manufacturer Fuel Economy	999.999	Nitrogen Oxide	0	Non-methane Hydrocarbon	0.0005	Non-methane organic gases	0.0005	Non-methane organic gases plus Nitrogen Oxides	999.999	Total Hydrocarbon	0.0006
Test Result/Emission Name	Unrounded Test Result																																		
Actual Distance Driven (miles)	10.2458																																		
Average System Voltage	441.74																																		
Carbon Monoxide	0.0007																																		
Carbon dioxide	0.1331																																		
Carbon-Related Exhaust Emissions	0																																		
Drive Trace Absolute Speed Change Rating	-0.009																																		
Drive Trace Energy Economy Rating	-0.47																																		
Drive Trace Inertia Work Ratio Rating	-0.065																																		
Integrated Amp-hours	8.792																																		
Manufacturer Fuel Economy	999.999																																		
Nitrogen Oxide	0																																		
Non-methane Hydrocarbon	0.0005																																		
Non-methane organic gases	0.0005																																		
Non-methane organic gases plus Nitrogen Oxides	999.999																																		
Total Hydrocarbon	0.0006																																		
Charge Depleting Bag/Phase #2																																			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2458	
	Average System Voltage	431.43	
	Carbon Monoxide	0	
	Carbon dioxide	0.0873	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.009	
	Drive Trace Energy Economy Rating	-0.47	
	Drive Trace Inertia Work Ratio Rating	-0.065	
	Integrated Amp-hours	17.074	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2694
Average System Voltage	420.51
Carbon Monoxide	0.0014
Carbon dioxide	0.0805
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	2.405
Drive Trace Energy Economy Rating	-0.198
Drive Trace Inertia Work Ratio Rating	3.56
Integrated Amp-hours	25.967
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.0001
Non-methane organic gases	0.0001
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0003

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2601	
	Average System Voltage	411.7	
	Carbon Monoxide	0	
	Carbon dioxide	0.0404	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	2.405	
	Drive Trace Energy Economy Rating	-0.198	
	Drive Trace Inertia Work Ratio Rating	3.56	
	Integrated Amp-hours	34.647	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.0001	
	Non-methane organic gases	0.0001	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2442
Average System Voltage	400.87
Carbon Monoxide	0.0001
Carbon dioxide	0.0655
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.96
Drive Trace Energy Economy Rating	-0.48
Drive Trace Inertia Work Ratio Rating	0.94
Integrated Amp-hours	43.485
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.0001
Non-methane organic gases	0.0001
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0002

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2413	
	Average System Voltage	391.94	
	Carbon Monoxide	0.0001	
	Carbon dioxide	0.0528	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	0.96	
	Drive Trace Energy Economy Rating	-0.48	
	Drive Trace Inertia Work Ratio Rating	0.94	
	Integrated Amp-hours	52.199	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2684
Average System Voltage	382.7
Carbon Monoxide	0
Carbon dioxide	0.0457
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	2.66
Drive Trace Energy Economy Rating	0.05
Drive Trace Inertia Work Ratio Rating	3.44
Integrated Amp-hours	61.357
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0.0001
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0001

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2589	
	Average System Voltage	378.17	
	Carbon Monoxide	0.1458	
	Carbon dioxide	158.2821	
	Carbon-Related Exhaust Emissions	158	
	Drive Trace Absolute Speed Change Rating	1.54	
	Drive Trace Energy Economy Rating	-0.13	
	Drive Trace Inertia Work Ratio Rating	2.35	
	Integrated Amp-hours	65.187	
	Manufacturer Fuel Economy	55.97	
	Nitrogen Oxide	0.0049	
	Non-methane Hydrocarbon	0.02275	
	Non-methane organic gases	0.0234	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0.02603	

Charge Depleting Bag/Phase #9

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2507
Average System Voltage	380.77
Carbon Monoxide	0.1231
Carbon dioxide	257.3111
Carbon-Related Exhaust Emissions	257
Drive Trace Absolute Speed Change Rating	1.04
Drive Trace Energy Economy Rating	-0.5
Drive Trace Inertia Work Ratio Rating	1.3
Integrated Amp-hours	65.105
Manufacturer Fuel Economy	34.471
Nitrogen Oxide	0.0014
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0017

Charge Depleting Bag/Phase #10

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2431	
	Average System Voltage	381.44	
	Carbon Monoxide	0.1761	
	Carbon dioxide	257.3533	
	Carbon-Related Exhaust Emissions	257	
	Drive Trace Absolute Speed Change Rating	-0.05	
	Drive Trace Energy Economy Rating	-0.64	
	Drive Trace Inertia Work Ratio Rating	-0.25	
	Integrated Amp-hours	64.803	
	Manufacturer Fuel Economy	33.445	
	Nitrogen Oxide	0.0006	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #11

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2634
Average System Voltage	381.48
Carbon Monoxide	0.1801
Carbon dioxide	257.9617
Carbon-Related Exhaust Emissions	258
Drive Trace Absolute Speed Change Rating	3.94
Drive Trace Energy Economy Rating	-0.1
Drive Trace Inertia Work Ratio Rating	5.02
Integrated Amp-hours	64.698
Manufacturer Fuel Economy	34.371
Nitrogen Oxide	0.0009
Non-methane Hydrocarbon	0.002
Non-methane organic gases	0.0021
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0039

Charge Depleting Bag/Phase #12

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.2541</td></tr><tr><td>Average System Voltage</td><td>381.28</td></tr><tr><td>Carbon Monoxide</td><td>0.1525</td></tr><tr><td>Carbon dioxide</td><td>248.5057</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>249</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>1.09</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.25</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.5</td></tr><tr><td>Integrated Amp-hours</td><td>64.73</td></tr><tr><td>Manufacturer Fuel Economy</td><td>35.0154</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>			Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.2541	Average System Voltage	381.28	Carbon Monoxide	0.1525	Carbon dioxide	248.5057	Carbon-Related Exhaust Emissions	249	Drive Trace Absolute Speed Change Rating	1.09	Drive Trace Energy Economy Rating	-0.25	Drive Trace Inertia Work Ratio Rating	1.5	Integrated Amp-hours	64.73	Manufacturer Fuel Economy	35.0154	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	Total Hydrocarbon	0
Test Result/Emission Name	Unrounded Test Result																																		
Actual Distance Driven (miles)	10.2541																																		
Average System Voltage	381.28																																		
Carbon Monoxide	0.1525																																		
Carbon dioxide	248.5057																																		
Carbon-Related Exhaust Emissions	249																																		
Drive Trace Absolute Speed Change Rating	1.09																																		
Drive Trace Energy Economy Rating	-0.25																																		
Drive Trace Inertia Work Ratio Rating	1.5																																		
Integrated Amp-hours	64.73																																		
Manufacturer Fuel Economy	35.0154																																		
Nitrogen Oxide	0																																		
Non-methane Hydrocarbon	0																																		
Non-methane organic gases	0																																		
Non-methane organic gases plus Nitrogen Oxides	999.999																																		
Total Hydrocarbon	0																																		
Manufacturer Test Comments	Range Rover 3.0 PHEV charge deplete HWY. MFR Test Numbers: CDC6 2025-06-17 11, CDC6 2025-06-17 12, CDC6 2025-06-17 13, CDC6 2025-06-17 14, CDC6 2025-06-17 15, CDC6 2025-06-17 16. 255/60R20 Michelin Primacy Tires.																																		

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
-------------------	--------------	-------------------------------------	--------------

Emission Data Vehicle Information

Vehicle ID / Configuration	3RRTT075 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	TJLXT03.0PTC	Original Evaporative/Refueling Family	TJLXR0175M1C
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	LAND ROVER	Represented Test Vehicle Model	Range Rover Sport PHEV
--------------------------------------	------------	---------------------------------------	------------------------

Leak Family Details

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

Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	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	3.0AJPM-23	Rated Horsepower	460
Displacement (liters)	3		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
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)	6385	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7672	N/V Ratio	25.8
Axle Ratio	3.73		
Transmission Type	Automatic	# of Transmission Gears	1
Transmission Lockup	Yes	Creep Gear	No

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family		VJLXR0175M1C	
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	59.9	-0.223	0.03383	4.95	-0.32399	0.031779	17.8	
Cold CO	65.89	-0.2453	0.037213	4.95	-0.32399	0.031779	N/A	
US06	59.9	-0.223	0.03383	4.95	-0.32399	0.031779	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Range Rover Sport 3.0L I6 PHEV FEDV. 285/40R23 Pirelli Scorpion Tires.						

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10092444	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	08/28/2025	Fuel	Gasoline
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	7155	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			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.9013	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.5944	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	392.7831	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.6742605	--	
FE BAG 1 (Bag 1 Fuel Economy)	22.533	22.533	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0295783	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-73.5264	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.8583	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	339.649	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0846292	--	
FE BAG 2 (Bag 2 Fuel Economy)	26.124	26.124	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	0	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.5887	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	352.4059	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.1383423	--	
FE BAG 3 (Bag 3 Fuel Economy)	25.173	25.173	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.0007734	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-31.8327	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.8599	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	315.3395	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0725819	--	
FE BAG 4 (Bag 4 Fuel Economy)	28.139	28.139	
HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	0	--	
METHANE (CH4 - Methane)	0.0018	--	
CO (Carbon Monoxide)	0.2181	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.651	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.997	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.067	--	
MFR FE (Manufacturer Fuel Economy)	25.5547	25.5547	
NOX (Nitrogen Oxide)	0.0073	--	
N2O (Nitrous Oxide)	0.0008	--	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C															
	<table><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0057</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0059</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0025</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0063</td><td>--</td></tr><tr><td>WATT-HRS (Watt Hours)</td><td>-105.3591</td><td>--</td></tr></table>	HC-NM (Non-methane Hydrocarbon)	0.0057	--	NMOG (Non-methane organic gases)	0.0059	--	PM (Particulate Matter)	0.0025	--	HC-TOTAL (Total Hydrocarbon)	0.0063	--	WATT-HRS (Watt Hours)	-105.3591	--		
HC-NM (Non-methane Hydrocarbon)	0.0057	--																
NMOG (Non-methane organic gases)	0.0059	--																
PM (Particulate Matter)	0.0025	--																
HC-TOTAL (Total Hydrocarbon)	0.0063	--																
WATT-HRS (Watt Hours)	-105.3591	--																
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>347</td><td>342</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	347	342											
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																
Carbon-Related Exhaust Emissions	347	342																
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>346.9914</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	346.9914	--											
Test Result Name	Unrounded Test Result	Verify Calculated CO2																
Carbon dioxide	346.9914	--																
Manufacturer Test Comments	Range Rover Sport 3.0L PHEV Charge Sustain 2xUDDS E0. Raw 4-bag data. MFR Test No. CDC5 2025-08-28 04. 285/40R23 Pirelli Scorpion MS AS Tires.																	

Certification Summary Information Report

Test Group		VJLXT03.OPTC			Evaporative/Refueling Family					VJLXR0175M1C		
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	0.22	--	--	--	0.43	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.22	--	--	--	0.43	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	342	--	--	--	0	--	342	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	342	--	--	--	0	--	342	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0018	--	--	--	0.0029	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0018	--	--	--	0.0029	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0008	--	--	--	0.0007	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0008	--	--	--	0.0007	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0059	--	1.04	--	0.0024	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0059	--	1.04	--	0.0024	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0132	--	--	--	--	--	0.016	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0132	--	--	--	--	--	0.016	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0073	--	--	--	0	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0073	--	--	--	0	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0025	--	--	--	0	--	0.002	0.003	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0025	--	--	--	0	--	0.002	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.22	--	--	--	0.43	--	0.6	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CREE	342	--	--	--	0	--	342	--	--
CA	150,000 miles	California LEV-III SULEV30	METHANE	0.0018	--	--	--	0.0029	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	N2O	0.0008	--	--	--	0.0007	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0059	--	1.04	--	0.0024	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0132	--	--	--	--	--	0.016	0.030	Pass

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0073	--	--	--	0	--	0.007	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0025	--	--	--	0	--	0.002	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0025	--	--	--	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	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10092446	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/25/2025	Fuel	Gasoline
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4799	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	10.2574	--	
METHANE (CH4 - Methane)	0.0002	--	
CO (Carbon Monoxide)	0.1365	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.602	--	
DT-EER (Drive Trace Energy Economy Rating)	0.101	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.911	--	
MFR FE (Manufacturer Fuel Economy)	34.9626	34.9626	
NOX (Nitrogen Oxide)	0.0002	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0	--	
NMOG (Non-methane organic gases)	0	--	
HC-TOTAL (Total Hydrocarbon)	0	--	
WATT-HRS (Watt Hours)	11.8784	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	254	254	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	253.6717	--	
Manufacturer Test Comments	Range Rover Sport 3.0L PHEV Highway. Raw 4-bag data. MFR Test No. CDC6 2025-06-25 13, 285/40R23 Pirelli Scorpion MS AS Tires.		

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
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	254	--	--	--	0	--	254	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.1	--	0.0024	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0002	--	--	--	--	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0002	--	--	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0	--	1.1	--	0.0024	--	0.002	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0002	--	--	--	--	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0002	--	--	--	0	--	0	99.999	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	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10092447	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/25/2025	Fuel	Gasoline
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	4819	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
Test Results			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																																																														
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>ACT-DISTANCE (Actual Distance Driven (miles))</td><td>8.0036</td><td>--</td></tr><tr><td>ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)</td><td>1.7697</td><td>--</td></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>576.1671</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.8374</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>15.37</td><td>15.37</td></tr><tr><td>HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)</td><td>0.01092</td><td>--</td></tr><tr><td>WATT-HRS BAG 1 (Bag 1 Watt Hours)</td><td>-16.1686</td><td>--</td></tr><tr><td>ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)</td><td>6.2339</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>390.1274</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.5308</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>22.703</td><td>22.703</td></tr><tr><td>HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)</td><td>0.004984</td><td>--</td></tr><tr><td>WATT-HRS BAG 2 (Bag 2 Watt Hours)</td><td>-273.5621</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.5986</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.601</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.114</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-2.489</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>20.5368</td><td>20.5368</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0134</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0013</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0013</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0055</td><td>--</td></tr><tr><td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td><td>0.0147</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0063</td><td>--</td></tr><tr><td>WATT-HRS (Watt Hours)</td><td>-289.7307</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	ACT-DISTANCE (Actual Distance Driven (miles))	8.0036	--	ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.7697	--	CO2 BAG 1 (Bag 1 Carbon Dioxide)	576.1671	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.8374	--	FE BAG 1 (Bag 1 Fuel Economy)	15.37	15.37	HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.01092	--	WATT-HRS BAG 1 (Bag 1 Watt Hours)	-16.1686	--	ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.2339	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	390.1274	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.5308	--	FE BAG 2 (Bag 2 Fuel Economy)	22.703	22.703	HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.004984	--	WATT-HRS BAG 2 (Bag 2 Watt Hours)	-273.5621	--	CO (Carbon Monoxide)	0.5986	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.601	--	DT-EER (Drive Trace Energy Economy Rating)	-1.114	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.489	--	MFR FE (Manufacturer Fuel Economy)	20.5368	20.5368	NOX (Nitrogen Oxide)	0.0134	--	HC-NM (Non-methane Hydrocarbon)	0.0013	--	NMOG (Non-methane organic gases)	0.0013	--	PM (Particulate Matter)	0.0055	--	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0147	--	HC-TOTAL (Total Hydrocarbon)	0.0063	--	WATT-HRS (Watt Hours)	-289.7307	--		
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																														
	ACT-DISTANCE (Actual Distance Driven (miles))	8.0036	--																																																																														
	ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.7697	--																																																																														
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	576.1671	--																																																																														
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.8374	--																																																																														
	FE BAG 1 (Bag 1 Fuel Economy)	15.37	15.37																																																																														
	HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.01092	--																																																																														
	WATT-HRS BAG 1 (Bag 1 Watt Hours)	-16.1686	--																																																																														
	ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.2339	--																																																																														
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	390.1274	--																																																																														
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.5308	--																																																																														
	FE BAG 2 (Bag 2 Fuel Economy)	22.703	22.703																																																																														
	HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.004984	--																																																																														
	WATT-HRS BAG 2 (Bag 2 Watt Hours)	-273.5621	--																																																																														
	CO (Carbon Monoxide)	0.5986	--																																																																														
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.601	--																																																																														
	DT-EER (Drive Trace Energy Economy Rating)	-1.114	--																																																																														
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.489	--																																																																														
	MFR FE (Manufacturer Fuel Economy)	20.5368	20.5368																																																																														
	NOX (Nitrogen Oxide)	0.0134	--																																																																														
	HC-NM (Non-methane Hydrocarbon)	0.0013	--																																																																														
	NMOG (Non-methane organic gases)	0.0013	--																																																																														
	PM (Particulate Matter)	0.0055	--																																																																														
	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0147	--																																																																														
	HC-TOTAL (Total Hydrocarbon)	0.0063	--																																																																														
	WATT-HRS (Watt Hours)	-289.7307	--																																																																														
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>431.2635</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	431.2635	--																																																																									
	Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																														
	Carbon dioxide	431.2635	--																																																																														
Manufacturer Test Comments	Range Rover Sport 3.0L PHEV Charge Sustain US06 E0. Raw 4-bag data. MFR Test No. CDC6 2025-06-25 14. 285/40R23 Pirelli Scorpion MS AS Tires.																																																																																

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family					VJLXR0175M1C		
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	0.6	--	--	--	0	--	0.6	9.6	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0013	--	1.03	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0147	--	--	--	--	--	0.019	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0134	--	--	--	0.0044	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.6	--	--	--	0	--	0.6	9.6	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0013	--	1.03	--	0	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0147	--	--	--	--	--	0.019	0.050	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0134	--	--	--	0.0044	--	0.018	99.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10092599	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	07/05/2025	Fuel	Gasoline
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000), 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	5683	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			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																																																														
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>ACT-DISTANCE (Actual Distance Driven (miles))</td><td>8.0155</td><td>--</td></tr><tr><td>ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)</td><td>1.7738</td><td>--</td></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>513.0533</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.3703878</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>17.282</td><td>17.282</td></tr><tr><td>HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)</td><td>0.0018245</td><td>--</td></tr><tr><td>WATT-HRS BAG 1 (Bag 1 Watt Hours)</td><td>79.3623</td><td>--</td></tr><tr><td>ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)</td><td>6.2417</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>368.2999</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.4942631</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>24.05</td><td>24.05</td></tr><tr><td>HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)</td><td>0.0021745</td><td>--</td></tr><tr><td>WATT-HRS BAG 2 (Bag 2 Watt Hours)</td><td>-97.5118</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.4669</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-2.935</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.804</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-5.213</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>22.1319</td><td>22.1319</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0052</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>PM (Particulate Matter)</td><td>0.0021</td><td>--</td></tr><tr><td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td><td>0.0052</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0021</td><td>--</td></tr><tr><td>WATT-HRS (Watt Hours)</td><td>-18.1495</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	ACT-DISTANCE (Actual Distance Driven (miles))	8.0155	--	ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.7738	--	CO2 BAG 1 (Bag 1 Carbon Dioxide)	513.0533	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.3703878	--	FE BAG 1 (Bag 1 Fuel Economy)	17.282	17.282	HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0018245	--	WATT-HRS BAG 1 (Bag 1 Watt Hours)	79.3623	--	ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.2417	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	368.2999	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.4942631	--	FE BAG 2 (Bag 2 Fuel Economy)	24.05	24.05	HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0021745	--	WATT-HRS BAG 2 (Bag 2 Watt Hours)	-97.5118	--	CO (Carbon Monoxide)	0.4669	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.935	--	DT-EER (Drive Trace Energy Economy Rating)	-1.804	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.213	--	MFR FE (Manufacturer Fuel Economy)	22.1319	22.1319	NOX (Nitrogen Oxide)	0.0052	--	HC-NM (Non-methane Hydrocarbon)	0	--	NMOG (Non-methane organic gases)	0	--	PM (Particulate Matter)	0.0021	--	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0052	--	HC-TOTAL (Total Hydrocarbon)	0.0021	--	WATT-HRS (Watt Hours)	-18.1495	--		
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																														
	ACT-DISTANCE (Actual Distance Driven (miles))	8.0155	--																																																																														
	ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.7738	--																																																																														
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	513.0533	--																																																																														
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.3703878	--																																																																														
	FE BAG 1 (Bag 1 Fuel Economy)	17.282	17.282																																																																														
	HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0018245	--																																																																														
	WATT-HRS BAG 1 (Bag 1 Watt Hours)	79.3623	--																																																																														
	ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.2417	--																																																																														
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	368.2999	--																																																																														
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.4942631	--																																																																														
	FE BAG 2 (Bag 2 Fuel Economy)	24.05	24.05																																																																														
	HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0021745	--																																																																														
	WATT-HRS BAG 2 (Bag 2 Watt Hours)	-97.5118	--																																																																														
	CO (Carbon Monoxide)	0.4669	--																																																																														
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.935	--																																																																														
	DT-EER (Drive Trace Energy Economy Rating)	-1.804	--																																																																														
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.213	--																																																																														
	MFR FE (Manufacturer Fuel Economy)	22.1319	22.1319																																																																														
	NOX (Nitrogen Oxide)	0.0052	--																																																																														
	HC-NM (Non-methane Hydrocarbon)	0	--																																																																														
	NMOG (Non-methane organic gases)	0	--																																																																														
	PM (Particulate Matter)	0.0021	--																																																																														
	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0052	--																																																																														
	HC-TOTAL (Total Hydrocarbon)	0.0021	--																																																																														
	WATT-HRS (Watt Hours)	-18.1495	--																																																																														
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>400.3328</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	400.3328	--																																																																									
	Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																														
	Carbon dioxide	400.3328	--																																																																														
	Manufacturer Test Comments	Range Rover Sport 3.0L PHEV Charge Sustain US06 E0. MFR Test No. CDC6 2025-07-05 07. 285/40R23 Pirelli Scorpion MS AS Tires. MFR confirmatory test due to initial US06 PM result <90%.Raw 4-bag data.																																																																															

Certification Summary Information Report

Test Group		VJLXT03.0PTC				Evaporative/Refueling Family				VJLXR0175M1C		
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	0.47	--	--	--	0	--	0.5	9.6	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0052	--	--	--	--	--	0.01	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0052	--	--	--	0.0044	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.47	--	--	--	0	--	0.5	9.6	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0	--	1.03	--	0	--	0	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0052	--	--	--	--	--	0.01	0.050	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0052	--	--	--	0.0044	--	0.01	99.999	Pass

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Test #	TJLX10091563	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/26/2025	Fuel	N/A
Fuel Batch ID	63623	Fuel Calibration Number	4091
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Jaguar Land Rover Limited		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4843	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
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	235.6	Recharge Event Energy (kiloWatt-hours)	32.1
Charge Depleting Range (Calculated miles)	68.765	Charge Depleting Range (Actual miles)	68.765
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	68.9	Equivalent All Electric Range (miles)	68.765
Number of Charge Depleting Bags/Phases Conducted	12	Transition Bag/Phase Number	10
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.4677	
Average System Voltage		445.55	
Carbon Monoxide		0	
Carbon dioxide		0.2362	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-0.18	
Drive Trace Energy Economy Rating		-0.88	
Drive Trace Inertia Work Ratio Rating		-0.31	
Integrated Amp-hours		7.321	
Manufacturer Fuel Economy		999.999	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		1.7098	
Non-methane organic gases		1.7611	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Total Hydrocarbon		1.8889	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.4654	
	Average System Voltage	440.27	
	Carbon Monoxide	0.607	
	Carbon dioxide	0.3249	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.13	
	Drive Trace Energy Economy Rating	-1.05	
	Drive Trace Inertia Work Ratio Rating	-0.48	
	Integrated Amp-hours	14.174	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.4723
Average System Voltage	430.02
Carbon Monoxide	0
Carbon dioxide	0.1351
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.55
Drive Trace Energy Economy Rating	-1.28
Drive Trace Inertia Work Ratio Rating	-0.95
Integrated Amp-hours	21.104
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.889
Non-methane organic gases	0.9157
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	1.0412

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.4721	
	Average System Voltage	422.91	
	Carbon Monoxide	0	
	Carbon dioxide	0.128	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.48	
	Drive Trace Energy Economy Rating	-1.14	
	Drive Trace Inertia Work Ratio Rating	-0.89	
	Integrated Amp-hours	28.043	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.454
Average System Voltage	415.23
Carbon Monoxide	4.1662
Carbon dioxide	0.1966
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.87
Drive Trace Energy Economy Rating	-1.48
Drive Trace Inertia Work Ratio Rating	-1.48
Integrated Amp-hours	35.135
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.8101
Non-methane organic gases	0.08344
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.809

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.4595	
	Average System Voltage	407.38	
	Carbon Monoxide	0	
	Carbon dioxide	0.1261	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.23	
	Drive Trace Energy Economy Rating	-1.06	
	Drive Trace Inertia Work Ratio Rating	-0.91	
	Integrated Amp-hours	42.284	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.0197	
	Non-methane organic gases	0.0203	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.4103
Average System Voltage	399.17
Carbon Monoxide	0.4028
Carbon dioxide	0.1073
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-3.14
Drive Trace Energy Economy Rating	-2.25
Drive Trace Inertia Work Ratio Rating	-4.88
Integrated Amp-hours	49.448
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.3161
Non-methane organic gases	0.3255
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.6361

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.4312	
	Average System Voltage	392.83	
	Carbon Monoxide	2.1265	
	Carbon dioxide	0.1683	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-2.94	
	Drive Trace Energy Economy Rating	-2.73	
	Drive Trace Inertia Work Ratio Rating	-4.32	
	Integrated Amp-hours	56.64	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #9

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.4766
Average System Voltage	383.51
Carbon Monoxide	1.6468
Carbon dioxide	0.1054
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.35
Drive Trace Energy Economy Rating	-0.63
Drive Trace Inertia Work Ratio Rating	-0.58
Integrated Amp-hours	64.349
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.9757
Non-methane organic gases	1.005
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.4008

Charge Depleting Bag/Phase #10

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.4624	
	Average System Voltage	380.84	
	Carbon Monoxide	0.407	
	Carbon dioxide	288.3114	
	Carbon-Related Exhaust Emissions	288	
	Drive Trace Absolute Speed Change Rating	-0.49	
	Drive Trace Energy Economy Rating	-0.77	
	Drive Trace Inertia Work Ratio Rating	-0.83	
	Integrated Amp-hours	66.061	
	Manufacturer Fuel Economy	30.706	
	Nitrogen Oxide	0.0084707	
	Non-methane Hydrocarbon	0.0301882	
	Non-methane organic gases	0.0310938	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0.04149	

Charge Depleting Bag/Phase #11

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.4176
Average System Voltage	382.03
Carbon Monoxide	0.1934715
Carbon dioxide	346.1051
Carbon-Related Exhaust Emissions	346
Drive Trace Absolute Speed Change Rating	-2.59
Drive Trace Energy Economy Rating	-2.29
Drive Trace Inertia Work Ratio Rating	-4.2
Integrated Amp-hours	65.555
Manufacturer Fuel Economy	25.624
Nitrogen Oxide	0.003068
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0031691

Charge Depleting Bag/Phase #12

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.4092</td></tr><tr><td>Average System Voltage</td><td>383.28</td></tr><tr><td>Carbon Monoxide</td><td>0.2981845</td></tr><tr><td>Carbon dioxide</td><td>360.6969</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>361</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-2.96</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2.37</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-4.41</td></tr><tr><td>Integrated Amp-hours</td><td>64.988</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.577</td></tr><tr><td>Nitrogen Oxide</td><td>0.0062893</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Total Hydrocarbon</td><td>0.0002815</td></tr></table>			Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.4092	Average System Voltage	383.28	Carbon Monoxide	0.2981845	Carbon dioxide	360.6969	Carbon-Related Exhaust Emissions	361	Drive Trace Absolute Speed Change Rating	-2.96	Drive Trace Energy Economy Rating	-2.37	Drive Trace Inertia Work Ratio Rating	-4.41	Integrated Amp-hours	64.988	Manufacturer Fuel Economy	24.577	Nitrogen Oxide	0.0062893	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	Total Hydrocarbon	0.0002815
Test Result/Emission Name	Unrounded Test Result																																		
Actual Distance Driven (miles)	7.4092																																		
Average System Voltage	383.28																																		
Carbon Monoxide	0.2981845																																		
Carbon dioxide	360.6969																																		
Carbon-Related Exhaust Emissions	361																																		
Drive Trace Absolute Speed Change Rating	-2.96																																		
Drive Trace Energy Economy Rating	-2.37																																		
Drive Trace Inertia Work Ratio Rating	-4.41																																		
Integrated Amp-hours	64.988																																		
Manufacturer Fuel Economy	24.577																																		
Nitrogen Oxide	0.0062893																																		
Non-methane Hydrocarbon	0																																		
Non-methane organic gases	0																																		
Non-methane organic gases plus Nitrogen Oxides	999.999																																		
Total Hydrocarbon	0.0002815																																		
<table><tr><td>Manufacturer Test Comments</td><td>Range Rover Sport 3.0 PHEV charge deplete UDDS. MFR Test Numbers: CDC6 2025-06-26 12, CDC6 2025-06-26 13, CDC6 2025-06-26 14, CDC6 2025-06-26 15, CDC6 2025-06-26 16, CDC6 2025-06-27 01. 285/40R23 Pirelli Scorpion Tires.</td></tr></table>				Manufacturer Test Comments	Range Rover Sport 3.0 PHEV charge deplete UDDS. MFR Test Numbers: CDC6 2025-06-26 12, CDC6 2025-06-26 13, CDC6 2025-06-26 14, CDC6 2025-06-26 15, CDC6 2025-06-26 16, CDC6 2025-06-27 01. 285/40R23 Pirelli Scorpion Tires.																														
Manufacturer Test Comments	Range Rover Sport 3.0 PHEV charge deplete UDDS. MFR Test Numbers: CDC6 2025-06-26 12, CDC6 2025-06-26 13, CDC6 2025-06-26 14, CDC6 2025-06-26 15, CDC6 2025-06-26 16, CDC6 2025-06-27 01. 285/40R23 Pirelli Scorpion Tires.																																		

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																																
Test #	TJLX10091564	Test Procedure	84 - Charge Depleting Highway																																
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																
Test Date	07/03/2025	Fuel	N/A																																
Fuel Batch ID	63623	Fuel Calibration Number	4091																																
Vehicle Class	N/A	DF Type	Mfr. Determined																																
Verify Test Lab ID	Jaguar Land Rover Limited																																		
E10 Evaporative Test Measurement Method	--																																		
Test Start Odometer Reading	5429	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																																
PHEV/EV Charge Depleting Test Information																																			
Recharge Event Voltage	238.5	Recharge Event Energy (kiloWatt-hours)	31.7																																
Charge Depleting Range (Calculated miles)	78.05	Charge Depleting Range (Actual miles)	78.05																																
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017																																
All Electric Range Unadjusted (miles)	77.1	Equivalent All Electric Range (miles)	78.05																																
Number of Charge Depleting Bags/Phases Conducted	12	Transition Bag/Phase Number	8																																
Charge Depleting Bag/Phase #1																																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.2476</td></tr><tr><td>Average System Voltage</td><td>440.43</td></tr><tr><td>Carbon Monoxide</td><td>0.002214</td></tr><tr><td>Carbon dioxide</td><td>0.0675</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>3.27</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.13</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>4.01</td></tr><tr><td>Integrated Amp-hours</td><td>8.759</td></tr><tr><td>Manufacturer Fuel Economy</td><td>999.999</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0.0000102</td></tr><tr><td>Non-methane organic gases</td><td>0.0000105</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Total Hydrocarbon</td><td>0.000535</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.2476	Average System Voltage	440.43	Carbon Monoxide	0.002214	Carbon dioxide	0.0675	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	3.27	Drive Trace Energy Economy Rating	0.13	Drive Trace Inertia Work Ratio Rating	4.01	Integrated Amp-hours	8.759	Manufacturer Fuel Economy	999.999	Nitrogen Oxide	0	Non-methane Hydrocarbon	0.0000102	Non-methane organic gases	0.0000105	Non-methane organic gases plus Nitrogen Oxides	999.999	Total Hydrocarbon	0.000535
Test Result/Emission Name	Unrounded Test Result																																		
Actual Distance Driven (miles)	10.2476																																		
Average System Voltage	440.43																																		
Carbon Monoxide	0.002214																																		
Carbon dioxide	0.0675																																		
Carbon-Related Exhaust Emissions	0																																		
Drive Trace Absolute Speed Change Rating	3.27																																		
Drive Trace Energy Economy Rating	0.13																																		
Drive Trace Inertia Work Ratio Rating	4.01																																		
Integrated Amp-hours	8.759																																		
Manufacturer Fuel Economy	999.999																																		
Nitrogen Oxide	0																																		
Non-methane Hydrocarbon	0.0000102																																		
Non-methane organic gases	0.0000105																																		
Non-methane organic gases plus Nitrogen Oxides	999.999																																		
Total Hydrocarbon	0.000535																																		
Charge Depleting Bag/Phase #2																																			

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2474	
	Average System Voltage	432.3	
	Carbon Monoxide	0	
	Carbon dioxide	0.0772	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	5.64	
	Drive Trace Energy Economy Rating	0.13	
	Drive Trace Inertia Work Ratio Rating	7.4	
	Integrated Amp-hours	17	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0.0000246	
	Non-methane Hydrocarbon	0.0000153	
	Non-methane organic gases	0.0000157	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0.0000732	

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2606
Average System Voltage	421.46
Carbon Monoxide	0.000237
Carbon dioxide	0.0057
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1
Drive Trace Energy Economy Rating	-0.62
Drive Trace Inertia Work Ratio Rating	1.45
Integrated Amp-hours	25.524
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0000211

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2542	
	Average System Voltage	413.37	
	Carbon Monoxide	0	
	Carbon dioxide	0.0636	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.09	
	Drive Trace Energy Economy Rating	-0.82	
	Drive Trace Inertia Work Ratio Rating	0.18	
	Integrated Amp-hours	33.942	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0.0000745	
	Non-methane Hydrocarbon	0.0001584	
	Non-methane organic gases	0.0001631	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0.0000379	

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2419
Average System Voltage	403.14
Carbon Monoxide	0.0013923
Carbon dioxide	0.0657
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	5.24
Drive Trace Energy Economy Rating	0.2
Drive Trace Inertia Work Ratio Rating	6.42
Integrated Amp-hours	42.884
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0.0001159
Non-methane Hydrocarbon	0.0001004
Non-methane organic gases	0.0001034
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0000145

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2483	
	Average System Voltage	393.21	
	Carbon Monoxide	0.0000071	
	Carbon dioxide	0.0434	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	4.28	
	Drive Trace Energy Economy Rating	-0.03	
	Drive Trace Inertia Work Ratio Rating	5.55	
	Integrated Amp-hours	51.743	
	Manufacturer Fuel Economy	999.999	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0.0000125	

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2515
Average System Voltage	384.46
Carbon Monoxide	0.0000556
Carbon dioxide	0.0445
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.72
Drive Trace Energy Economy Rating	-0.93
Drive Trace Inertia Work Ratio Rating	-0.78
Integrated Amp-hours	60.957
Manufacturer Fuel Economy	999.999
Nitrogen Oxide	0.0000291
Non-methane Hydrocarbon	0.0000074
Non-methane organic gases	0.0000076
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0000216

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.263	
	Average System Voltage	377.61	
	Carbon Monoxide	0.0961904	
	Carbon dioxide	112.4871	
	Carbon-Related Exhaust Emissions	113	
	Drive Trace Absolute Speed Change Rating	1.61	
	Drive Trace Energy Economy Rating	-0.47	
	Drive Trace Inertia Work Ratio Rating	2.58	
	Integrated Amp-hours	66.619	
	Manufacturer Fuel Economy	78.756	
	Nitrogen Oxide	0.0029014	
	Non-methane Hydrocarbon	0.0184135	
	Non-methane organic gases	0.0189659	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0.0219809	

Charge Depleting Bag/Phase #9

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2559
Average System Voltage	381.81
Carbon Monoxide	0.0750657
Carbon dioxide	271.5655
Carbon-Related Exhaust Emissions	272
Drive Trace Absolute Speed Change Rating	2.83
Drive Trace Energy Economy Rating	0.06
Drive Trace Inertia Work Ratio Rating	3.66
Integrated Amp-hours	66.152
Manufacturer Fuel Economy	32.671
Nitrogen Oxide	0.0011158
Non-methane Hydrocarbon	0.0004019
Non-methane organic gases	0.0004139
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0023426

Charge Depleting Bag/Phase #10

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.2583	
	Average System Voltage	382.24	
	Carbon Monoxide	0.101096	
	Carbon dioxide	265.2457	
	Carbon-Related Exhaust Emissions	265	
	Drive Trace Absolute Speed Change Rating	5.79	
	Drive Trace Energy Economy Rating	0.46	
	Drive Trace Inertia Work Ratio Rating	7.51	
	Integrated Amp-hours	65.784	
	Manufacturer Fuel Economy	33.445	
	Nitrogen Oxide	0.0000846	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Total Hydrocarbon	0	

Charge Depleting Bag/Phase #11

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2585
Average System Voltage	382.36
Carbon Monoxide	0.0786032
Carbon dioxide	267.7268
Carbon-Related Exhaust Emissions	268
Drive Trace Absolute Speed Change Rating	1.06
Drive Trace Energy Economy Rating	-1.04
Drive Trace Inertia Work Ratio Rating	1.57
Integrated Amp-hours	65.591
Manufacturer Fuel Economy	33.14
Nitrogen Oxide	0.0012702
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Total Hydrocarbon	0.0004377

Charge Depleting Bag/Phase #12

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C																															
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.266</td></tr><tr><td>Average System Voltage</td><td>382.8</td></tr><tr><td>Carbon Monoxide</td><td>0.1660264</td></tr><tr><td>Carbon dioxide</td><td>260.9721</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>261</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.37</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.54</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.33</td></tr><tr><td>Integrated Amp-hours</td><td>65.345</td></tr><tr><td>Manufacturer Fuel Economy</td><td>33.979</td></tr><tr><td>Nitrogen Oxide</td><td>0.0016989</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.266	Average System Voltage	382.8	Carbon Monoxide	0.1660264	Carbon dioxide	260.9721	Carbon-Related Exhaust Emissions	261	Drive Trace Absolute Speed Change Rating	-0.37	Drive Trace Energy Economy Rating	-0.54	Drive Trace Inertia Work Ratio Rating	-0.33	Integrated Amp-hours	65.345	Manufacturer Fuel Economy	33.979	Nitrogen Oxide	0.0016989	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	Total Hydrocarbon	0	
	Test Result/Emission Name	Unrounded Test Result																																
	Actual Distance Driven (miles)	10.266																																
	Average System Voltage	382.8																																
	Carbon Monoxide	0.1660264																																
	Carbon dioxide	260.9721																																
	Carbon-Related Exhaust Emissions	261																																
	Drive Trace Absolute Speed Change Rating	-0.37																																
	Drive Trace Energy Economy Rating	-0.54																																
	Drive Trace Inertia Work Ratio Rating	-0.33																																
	Integrated Amp-hours	65.345																																
	Manufacturer Fuel Economy	33.979																																
	Nitrogen Oxide	0.0016989																																
	Non-methane Hydrocarbon	0																																
	Non-methane organic gases	0																																
	Non-methane organic gases plus Nitrogen Oxides	999.999																																
	Total Hydrocarbon	0																																
	Manufacturer Test Comments																																	
	Range Rover Sport 3.0 PHEV charge deplete HWY. MFR Test Numbers: CDC6 2025-07-03 02, CDC6 2025-07-03 03, CDC6 2025-07-03 04, CDC6 2025-07-03 05, CDC6 2025-07-03 06, CDC6 2025-07-03 07. 275/50R21 Michelin Primacy Tires.																																	

Certification Summary Information Report

Test Group	VJLXT03.0PTC	Evaporative/Refueling Family	VJLXR0175M1C
Fuel Properties			
Fuel Batch ID	63623	Fuel Calibration Number	4091
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	07/22/2024
Fuel Batch Calibration Effective Date	07/22/2024	Fuel Batch Calibration Ineffective Date	04/03/2029
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.732
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18536
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.871	Weight Fraction CO2	--
Fuel Batch ID	40724	Fuel Calibration Number	6681
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	06/02/2021
Fuel Batch Calibration Effective Date	06/02/2021	Fuel Batch Calibration Ineffective Date	06/02/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.74
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17960
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	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	--

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family			VJLXR0175M1C	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III 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	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	METHANE	--	--	--	--	--	--	0.0029	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0007	0.010
150,000 miles	NMOG	--	--	1.04	--	--	--	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			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	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0044	999.999

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family			VJLXR0175M1C	
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	CO	--	--	--	--	--	--	0.43	1.0
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	METHANE	--	--	--	--	--	--	0.0029	0.030
150,000 miles	METHANE	--	--	--	--	--	--	0.0029	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0007	0.010
150,000 miles	N2O	--	--	--	--	--	--	0.0007	0.010
150,000 miles	NMOG	--	--	1.04	--	--	--	0.0024	999.999
150,000 miles	NMOG	--	--	1.04	--	--	--	0.0024	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
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	--	--	1.1	--	--	--	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		VJLXT03.0PTC			Evaporative/Refueling Family			VJLXR0175M1C	
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		Electricity			Test Procedure			Charge Depleting Highway	
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	--	--	--	--	--	--	--	999.99
150,000 miles	CO	--	--	--	--	--	--	--	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-III SULEV30	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
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	--	--	--	--	--	--	--	999.999
150,000 miles	CO	--	--	--	--	--	--	--	999.99
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

Certification Summary Information Report

Test Group	VJLXT03.0PTC				Evaporative/Refueling Family			VJLXR0175M1C	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both	
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				Standard Level			California LEV-III 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	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0044	99.999

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				Standard Level			California LEV-III 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
50,000 miles	NMOG	--	--	1.1	--	--	--	0.0024	999.999
50,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.060
50,000 miles	NOX	--	--	--	--	--	--	0	999.999

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both	
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				Standard Level			California LEV-III 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	1.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0001	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0018	99.999

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family			VJLXR0175M1C	
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	3.2
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0001	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0018	999.999

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	--	--	--	--	--	--	0.013	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.0017	0.3

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-III SULEV30	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
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	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family			VJLXR0175M1C	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III 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	N2O	--	--	--	--	--	--	0.0007	0.010
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

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III 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	--	--	1.1	--	--	--	0.0024	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	99.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
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	--	--	--	--	--	--	--	999.99

Certification Summary Information Report

Test Group		VJLXT03.0PTC			Evaporative/Refueling Family			VJLXR0175M1C	
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-III 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	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		Electricity			Test Procedure			Charge Depleting UDDS	
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	--	--	--	--	--	--	--	999.999
150,000 miles	CO	--	--	--	--	--	--	--	999.99

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III 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	--	--	--	--	--	--	0.013	12.5

Evaporative/Refueling Standards

Evaporative/Refueling Family		VJLXR0175M1C		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-III 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		

Certification Summary Information Report

Test Group		VJLXT03.0PTC		Evaporative/Refueling Family		VJLXR0175M1C	
Evaporative/Refueling Family		VJLXR0175M1C		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-III 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	--	0.01	0		
Evaporative/Refueling Family		VJLXR0175M1C		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	--	0.500	0		
Evaporative/Refueling Family		VJLXR0175M1C		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III 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		VJLXR0175M1C		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-TOTAL-EQUIV	--	0.01	0		
Evaporative/Refueling Family		VJLXR0175M1C		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		

Certification Summary Information Report

Test Group		VJLXT03.OPTC	Evaporative/Refueling Family		VJLXR0175M1C
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		VJLXT03.0PTC	Evaporative/Refueling Family		VJLXR0175M1C
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VJLXT03.0PTC	Evaporative/Refueling Family		VJLXR0175M1C
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		VJLXT03.0PTC	Evaporative/Refueling Family		VJLXR0175M1C
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	