



Application for Certification

VJLXT04.4GTG

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Range Rover, Range Rover
Sport

Part 1

Issued: 03/20/26

Application for Emissions Certification

Model Year: 2027
Manufacturer Name: Jaguar Land Rover

Test Group: VJLXT04.4GTG
Test Group Description: 4.4 liter V8 Turbocharged LDT

Durability Group: VJLXGPGNNGTG
Durability Group Description: Positive ignition - Four stroke
Gasoline Fuelled
Direct Fuel Injection
Ceramic Monolith Pd/Rh Catalyst

Evaporative Group: VJLXR0175P1B

Applicable Standards
CARB / EPA FTP Standard: Federal - Interim Tier 4 Bin 50
California – LEV IV ULEV50

Carlines Covered: 236: Range Rover
237: Range Rover LWB
240: Range Rover SV
241: Range Rover LWB SV
238: Range Rover Sport
239: Range Rover Sport SV

EPA & CARB Response Requested By: June 15th 2026

For Questions, Contact: Vahakn Varjabedian (201) 818 – 8139
Amy Brambill abrambil@jaguarlandrover.com

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**5. Test Group Description**

- | | | |
|--------|---|---|
| 5.1. | Test Group name | VJLXT04.4GTG |
| 5.2. | Summary Sheet number(s) | CSI- VJLXT04.4GTG- VJLXR0175P1B |
| 5.3. | Engine displacement | 4.4L |
| 5.4. | Arrangement and number of cylinders: | |
| 5.4.1. | Arrangement of cylinders: | In-line. |
| 5.4.2. | Number of cylinders: | 4 |
| 5.5. | Emission standards | |
| 5.5.1. | Vehicle class covered | Federal – LDT4
California – LDT2 |
| 5.5.2. | Participation in NLEV | Not applicable |
| 5.5.3. | Emission standards class | Federal – Interim Tier 4 Bin 50
California – LEV IV ULEV50 |
| 5.5.4. | Applicable emission standards | Refer to Enclosure 1 of Section 7. |

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6. Test Vehicle Description**6.1. Test Vehicles**

Carline	Test Vehicle No.	Cfg. No.	Engine Displ. (cm ³)	Emission Control System	Engine Code	Trans	ETW	Axle Ratio	Remarks
237	3RPVBS26	00	4395	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC	4.4NC11-23	S8	6500	3.31	Range Rover LWB DDV
237	3KRTT018	00	4395	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC	4.4NC11-23	S8	6500	3.31	Range Rover LWB EDV
237	3KRTT018	01	4395	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC	4.4NC11-23	S8	6000	3.31	Range Rover LWB FEDV
236	3KRTT018	02	4395	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC	4.4NC11-23	S8	6000	3.31	Range Rover FEDV, Range Rover Sport FEDV
239	3KRTT018	05	4395	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC	4.4NC11-23	S8	6000	3.31	Range Rover Sport SV FEDV
232	3KMVP032	00	4395	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC	4.4NC10-22	S8	6000	3.31	Range Rover Evaps EDV

For complete vehicle descriptions, refer to Vehicle Information submitted to the EPA Central Data Exchange (CDX) EV-CIS System, or to the Summary Sheet enclosed in Section 7 of this application.

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EV-CIS VI Outputs

Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : C**EPA Manufacturer Code : JLX****Vehicle Identification Text : 3KRTT018****Vehicle Configuration Number : 0**

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0**Test Group Name : RJLXT04.4GTG****Evaporative Refueling Family Name : RJLXR0175P1B****Model Year : 2024****Actual Test Vehicle Make Text : LAND ROVER****Actual Test Vehicle Model Text : Range Rover LWB**

Drive Source Details

Drive Source Identifier : C**Fuel Identifier : G**

Drive Source Details

Drive Source Identifier : E**Fuel Identifier : EL****Fuel Cell Indicator : N****Rechargeable Energy Storage System Indicator : Y****Rechargeable Energy Storage Device Identifier : B****Off Board Charge Capability Indicator : Y****Test Drive Code : 4****Shift Indicator Light Usage Identifier : 1****Aged Component Usage Identifier : 4**

Odometer Correction Details

Correction Initial Value : 0**Correction Factor Value : 1.00****Correction Sign Identifier : -****Correction Units Code : M****Engine Code Text : 4.4NC11-24****Engine Rated Horsepower Value : 530****Engine Displacement Value : 4.4**

Air Aspiration Details

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Air Aspiration Method Identifier : TC
Air Aspiration Device Count : 2
Air Aspiration Configuration Identifier : P

Charge Air Cooler Identifier : L
Vehicle Specifications Details
Curb Weight Value : 6295
Equivalent Test Weight Value : 6500
Gross Vehicle Weight Rating Value : 7495
NV Ratio Value : 22.9
Axle Ratio Value : 3.31

Transmission Specifications Details
Light Duty Transmission Type Identifier : SA
Transmission Lockup Indicator : Y
Transmission Creeper Gear Indicator : N
Transmission Gear Count : 8

Target Set Coefficient Details
Test Procedure Dynamometer Coefficients Category : US06
Target CoefficientA Value : 40.960
Target CoefficientB Value : 0.26918
Target CoefficientC Value : 0.032263
Set CoefficientA Value : -19.289
Set CoefficientB Value : 0.43206
Set CoefficientC Value : 0.027686

Target Set Coefficient Details
Test Procedure Dynamometer Coefficients Category : Cold-CO
Target CoefficientA Value : 45.056
Target CoefficientB Value : 0.29610
Target CoefficientC Value : 0.035488
Set CoefficientA Value : -19.289
Set CoefficientB Value : 0.43206
Set CoefficientC Value : 0.027686

Target Set Coefficient Details
Test Procedure Dynamometer Coefficients Category : C-H-E
Target CoefficientA Value : 40.960
Target CoefficientB Value : 0.26918
Target CoefficientC Value : 0.032263
Set CoefficientA Value : -19.289

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Set CoefficientB Value : 0.43206
Set CoefficientC Value : 0.027686

Manufacturer Comment Text : Range Rover NC11 4.4 V8 Turbocharged LWB. Pirelli Scorpion Zero AS 285/40R23 Tires. EDV. Correction to F2 Target Coeff.

EPA Generated Test Vehicle Details

Original Receipt Date : 20230811

Hybrid Vehicle Indicator : Y

Adjusted Loaded Vehicle Weight Value : 6895

Loaded Vehicle Weight Value : 6595

Total Road Load Horsepower Value : 18.0

Transaction Status Details

Transaction Status Identifier : ACCEPTED

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Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : C**EPA Manufacturer Code : JLX****Vehicle Identification Text : 3KRTT018****Vehicle Configuration Number : 1**

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 1**Test Group Name : RJLXT04.4GTG****Evaporative Refueling Family Name : RJLXR0175P1B****Model Year : 2024****Actual Test Vehicle Make Text : LAND ROVER****Actual Test Vehicle Model Text : Range Rover LWB**

Drive Source Details

Drive Source Identifier : C**Fuel Identifier : G**

Drive Source Details

Drive Source Identifier : E**Fuel Identifier : EL****Fuel Cell Indicator : N****Rechargeable Energy Storage System Indicator : Y****Rechargeable Energy Storage Device Identifier : B****Off Board Charge Capability Indicator : Y****Test Drive Code : 4****Shift Indicator Light Usage Identifier : 1****Aged Component Usage Identifier : 4**

Odometer Correction Details

Correction Initial Value : 0**Correction Factor Value : 1.00****Correction Sign Identifier : -****Correction Units Code : M****Engine Code Text : 4.4NC11-24****Engine Rated Horsepower Value : 530****Engine Displacement Value : 4.4**

Air Aspiration Details

Air Aspiration Method Identifier : TC**Air Aspiration Device Count : 2****Air Aspiration Configuration Identifier : P**

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**Charge Air Cooler Identifier : L**

Vehicle Specifications Details

Curb Weight Value : 6295**Equivalent Test Weight Value : 6500****Gross Vehicle Weight Rating Value : 7495****NV Ratio Value : 22.9****Axle Ratio Value : 3.31**

Transmission Specifications Details

Light Duty Transmission Type Identifier : SA**Transmission Lockup Indicator : Y****Transmission Creeper Gear Indicator : N****Transmission Gear Count : 8**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO**Target CoefficientA Value : 45.056****Target CoefficientB Value : 0.29610****Target CoefficientC Value : 0.035488****Set CoefficientA Value : -19.289****Set CoefficientB Value : 0.43206****Set CoefficientC Value : 0.027686**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E**Target CoefficientA Value : 40.960****Target CoefficientB Value : 0.26918****Target CoefficientC Value : 0.032263****Set CoefficientA Value : -19.289****Set CoefficientB Value : 0.43206****Set CoefficientC Value : 0.027686**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06**Target CoefficientA Value : 40.960****Target CoefficientB Value : 0.26918****Target CoefficientC Value : 0.032263****Set CoefficientA Value : -19.289****Set CoefficientB Value : 0.43206****Set CoefficientC Value : 0.027686**

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Manufacturer Comment Text : Range Rover NC11 4.4 V8 Turbocharged LWB. Pirelli Scorpion Zero AS 285/40R23 Tires. FEDV. Correction to F2 Target Coeff.

EPA Generated Test Vehicle Details

Original Receipt Date : 20230811

Hybrid Vehicle Indicator : Y

Adjusted Loaded Vehicle Weight Value : 6895

Loaded Vehicle Weight Value : 6595

Total Road Load Horsepower Value : 18.0

Transaction Status Details

Transaction Status Identifier : ACCEPTED

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Test Vehicle Information Submission

Test Vehicle Information Details

Information Process Code : N**EPA Manufacturer Code : JLX****Vehicle Identification Text : 3KRTT018****Vehicle Configuration Number : 2**

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 2**Test Group Name : RJLXT04.4GTG****Evaporative Refueling Family Name : RJLXR0175P1B****Model Year : 2024****Actual Test Vehicle Make Text : LAND ROVER****Actual Test Vehicle Model Text : Range Rover**

Drive Source Details

Drive Source Identifier : E**Fuel Identifier : EL**

Drive Source Details

Drive Source Identifier : C**Fuel Identifier : G****Fuel Cell Indicator : N****Rechargeable Energy Storage System Indicator : Y****Rechargeable Energy Storage Device Identifier : B****Off Board Charge Capability Indicator : Y****Test Drive Code : 4****Shift Indicator Light Usage Identifier : 1****Aged Component Usage Identifier : 4**

Odometer Correction Details

Correction Initial Value : 0**Correction Factor Value : 1.00****Correction Sign Identifier : -****Correction Units Code : M****Engine Code Text : 4.4NC11-24****Engine Rated Horsepower Value : 530****Engine Displacement Value : 4.4**

Air Aspiration Details

Air Aspiration Method Identifier : TC**Air Aspiration Device Count : 2****Air Aspiration Configuration Identifier : P**

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**Charge Air Cooler Identifier : L**

Vehicle Specifications Details

Curb Weight Value : 5830**Equivalent Test Weight Value : 6000****Gross Vehicle Weight Rating Value : 7450****NV Ratio Value : 22.9****Axle Ratio Value : 3.31**

Transmission Specifications Details

Light Duty Transmission Type Identifier : SA**Transmission Lockup Indicator : Y****Transmission Creeper Gear Indicator : N****Transmission Gear Count : 8**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06**Target CoefficientA Value : 37.8****Target CoefficientB Value : 0.269****Target CoefficientC Value : 0.03226****Set CoefficientA Value : -23.897****Set CoefficientB Value : 0.37782****Set CoefficientC Value : 0.028915**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO**Target CoefficientA Value : 41.6****Target CoefficientB Value : 0.296****Target CoefficientC Value : 0.03549****Set CoefficientA Value : -23.897****Set CoefficientB Value : 0.37782****Set CoefficientC Value : 0.028915**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E**Target CoefficientA Value : 37.8****Target CoefficientB Value : 0.269****Target CoefficientC Value : 0.03226****Set CoefficientA Value : -23.897****Set CoefficientB Value : 0.37782****Set CoefficientC Value : 0.028915**

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Manufacturer Comment Text : Range Rover NC11 4.4 V8 Turbocharged Standard Wheel Base. Pirelli Scorpion Zero AS 285/40R23 Tires. FEDV.

EPA Generated Test Vehicle Details

Original Receipt Date : 20230816

Hybrid Vehicle Indicator : Y

Adjusted Loaded Vehicle Weight Value : 6640

Loaded Vehicle Weight Value : 6130

Total Road Load Horsepower Value : 17.6

Transaction Status Details

Transaction Status Identifier : ACCEPTED

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Information Process Code : N**EPA Manufacturer Code : JLX****Vehicle Identification Text : 3KRTT018****Vehicle Configuration Number : 5**

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 5**Test Group Name : TJLXT04.4GTG****Evaporative Refueling Family Name : TJLXR0175P1B****Model Year : 2026****Actual Test Vehicle Make Text : LAND ROVER****Actual Test Vehicle Model Text : Range Rover Sport SV**

Drive Source Details

Drive Source Identifier : C**Fuel Identifier : G**

Drive Source Details

Drive Source Identifier : E**Fuel Identifier : EL****Fuel Cell Indicator : N****Rechargeable Energy Storage System Indicator : Y****Rechargeable Energy Storage Device Identifier : B****Off Board Charge Capability Indicator : Y****Test Drive Code : 4****Shift Indicator Light Usage Identifier : 1****Aged Component Usage Identifier : 4**

Odometer Correction Details

Correction Initial Value : 0**Correction Factor Value : 1.00****Correction Sign Identifier : -****Correction Units Code : M****Engine Code Text : 4.4NC11-24****Engine Rated Horsepower Value : 635**

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Engine Displacement Value : 4.4

Air Aspiration Details

Air Aspiration Method Identifier : TC**Air Aspiration Device Count : 2****Air Aspiration Configuration Identifier : P****Charge Air Cooler Identifier : L**

Vehicle Specifications Details

Curb Weight Value : 5765**Equivalent Test Weight Value : 6000****Gross Vehicle Weight Rating Value : 7160****NV Ratio Value : 25.8****Axle Ratio Value : 3.73**

Transmission Specifications Details

Light Duty Transmission Type Identifier : SA**Transmission Lockup Indicator : Y****Transmission Creeper Gear Indicator : N****Transmission Gear Count : 8**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E**Target CoefficientA Value : 49.1****Target CoefficientB Value : 0.322****Target CoefficientC Value : 0.03115****Set CoefficientA Value : -3.485****Set CoefficientB Value : 0.28177****Set CoefficientC Value : 0.028408**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO**Target CoefficientA Value : 54.01****Target CoefficientB Value : 0.354****Target CoefficientC Value : 0.03427****Set CoefficientA Value : -3.485****Set CoefficientB Value : 0.28177****Set CoefficientC Value : 0.028408**

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Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06**Target CoefficientA Value : 49.1****Target CoefficientB Value : 0.322****Target CoefficientC Value : 0.03115****Set CoefficientA Value : -3.485****Set CoefficientB Value : 0.28177****Set CoefficientC Value : 0.028408****Manufacturer Comment Text : Range Rover Sport NC11 4.4 V8 SV**

Turbocharged. Michelin Pilot Sport Self Seal Tires F: 285/40R23 R: 305/35R23.

EPA Generated Test Vehicle Details

Original Receipt Date : 20250501**Hybrid Vehicle Indicator : Y****Adjusted Loaded Vehicle Weight Value : 6462****Loaded Vehicle Weight Value : 6065****Total Road Load Horsepower Value : 19.1**

Transaction Status Details

Transaction Status Identifier : ACCEPTED

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Information Process Code : N**EPA Manufacturer Code : J LX****Vehicle Identification Text : 3KMVP032****Vehicle Configuration Number : 0**

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0**Test Group Name : NJLXT04.4GTE****Evaporative Refueling Family Name : NJLXR0175P1B****Model Year : 2022****Actual Test Vehicle Make Text : LAND ROVER****Actual Test Vehicle Model Text : New Range Rover**

Drive Source Details

Drive Source Identifier : C**Fuel Identifier : G****Fuel Cell Indicator : N****Rechargeable Energy Storage System Indicator : N****Test Drive Code : 4****Shift Indicator Light Usage Identifier : 1****Aged Component Usage Identifier : 4**

Odometer Correction Details

Correction Initial Value : 0**Correction Factor Value : 1.00****Correction Sign Identifier : -****Correction Units Code : M****Engine Code Text : 4.4NC10-22****Engine Rated Horsepower Value : 530****Engine Displacement Value : 4.4**

Air Aspiration Details

Air Aspiration Method Identifier : TC**Air Aspiration Device Count : 2****Air Aspiration Configuration Identifier : P****Charge Air Cooler Identifier : L**

Vehicle Specifications Details

Curb Weight Value : 5705**Equivalent Test Weight Value : 6000****Gross Vehicle Weight Rating Value : 7385****NV Ratio Value : 22.9****Axle Ratio Value : 3.31**

Transmission Specifications Details

Light Duty Transmission Type Identifier : SA**Transmission Lockup Indicator : Y****Transmission Creeper Gear Indicator : N****more Transmission Gear Count : 8**

Target Set Coefficient Details

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Test Procedure Dynamometer Coefficients Category : US06**Target CoefficientA Value : 46.948****Target CoefficientB Value : -0.11133****Target CoefficientC Value : 0.034230****Set CoefficientA Value : 50.874****Set CoefficientB Value : -0.11143****Set CoefficientC Value : 0.034206**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : C-H-E**Target CoefficientA Value : 46.948****Target CoefficientB Value : -0.11133****Target CoefficientC Value : 0.034230****Set CoefficientA Value : 50.874****Set CoefficientB Value : -0.11143****Set CoefficientC Value : 0.034206**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO**Target CoefficientA Value : 51.643****Target CoefficientB Value : -0.12246****Target CoefficientC Value : 0.037653****Set CoefficientA Value : 50.874****Set CoefficientB Value : -0.11143****Set CoefficientC Value : 0.034206****Manufacturer Comment Text :** New Range Rover NC10 4.4 V8 Turbocharged LWB.
285/45R22 Tires. Evaps EDV.

EPA Generated Test Vehicle Details

Original Receipt Date : 20211110**Hybrid Vehicle Indicator : N****Adjusted Loaded Vehicle Weight Value : 6545****Loaded Vehicle Weight Value : 6005****Total Road Load Horsepower Value : 16.9**

Transaction Status Details

Transaction Status Identifier : ACCEPTED

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6.2. EDV Selection

According to 86.1828-01 the Range Rover long-wheel-base with 285/40R23 Pirelli Scorpion Zero tires is expected to be worst-case for exhaust emission compliance within this test group. The ETW of 6500 lbs is the highest of the test group. The selected tire is considered worst case having the highest coefficient of rolling resistance and giving the heightened road load horse power at 50mph. The EDV and DDV were tested in the worst-case driver mode for all test cycles. The worst-case driver mode for this test group is dynamic mode, with sport mode selected by the transmission shifter. Driver modes are described in section 12.3.

All certified vehicle configurations are represented by data from the EDVs listed below:

6.3. EV-CIS Test Numbers

Vehicle-ID	Config.	Test	Test Number
3KRTT018	00	FTP	RJLX10082298
		HWFET	RJLX10082299
		US06	RJLX10082300
		SC03	RJLX10082301
		FTP20	RJLX10082302
		FTP50	RJLX10082303
3KMVP032	00	3-diurnal Set A	NJLX10072639
		3-diurnal Set B	NJLX10072640
		Running Loss Set A	NJLX10072654
		Running Loss Set B	NJLX10072656
		ORVR Set A	NJLX10072655
		ORVR Set B	NJLX10072657

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7. Test Results (Cover page)

Refer to the enclosed Certification Summary Information Report processed by the EPA EV-CIS system.

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8. Emission Testing Waiver Statements

EPA Regulations

High Altitude Testing

Based on an engineering evaluation of appropriate high-altitude emission testing Jaguar state that light-duty vehicles included in this application comply with the applicable emission standards at high altitude.

According to 40 CFR §86.1829-01(b)(1)(ii)(B) Jaguar Land Rover waive high altitude emissions data submittal on the basis of this statement.

Data submittal waiver for Idle CO Testing

Based on an engineering evaluation of appropriate Idle CO emissions Jaguar Land Rover state that light-duty vehicles included in this application comply with all applicable idle CO emission standards.

According to 40 CFR §86.1829-01(b)(5)(ii) Jaguar Land Rover waive Idle CO emissions data submittal on the basis of this statement.

Data submittal for 2-Day Evaporative Testing

Based on an engineering evaluation of appropriate evaporative emission testing, Jaguar Land Rover state that all vehicles in the evaporative/refuelling family associated with this test group comply with the applicable two-day evaporative emission standard.

Jaguar Land Rover waive 2-Diurnal Evaporative emissions testing on this basis.

91 RON (Knock Sensor)

Pursuant to VPCD-97-01, Jaguar Land Rover's engineering evaluation states the city and highway fuel economy test result differences between 91 RON operation and 96 RON operation is within 3%, and there are no emissions increases (beyond normal test variability) using 91 RON fuel when tested on the FTP.

Data submittal for Formaldehyde (HCHO) Measurement

Based on an engineering evaluation, Jaguar Land Rover states that light-duty vehicles included in this application comply with all applicable HCHO standards.

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Data submittal waiver for Non-Methane Organic Gas (NMOG) Measurement

Based on test data from engineering programmes Jaguar Land Rover use the following

NMOG:NMHC ratios in order to express NMOG emissions:

Cold and Hot Start tests, E0 fuels: $\text{NMOG} = \text{NMHC} \times 1.03$

Cold Start tests, E10 fuels: $\text{NMOG} = \text{NMHC} \times 1.10$

Hot Start tests, E10 fuels: $\text{NMOG} = \text{NMHC} \times 1.03$

Data submittal waiver for Spit-Back testing

All Jaguar Land Rover Gasoline fuelled vehicles are certified to the refuelling emissions standards in §86.1811-04(e), and inherently meet the fuel dispensing spitback standards as part of compliance with the refuelling emissions requirements.

Compliance with the applicable standards is for the Full Useful life of the vehicle.

Fuel dispensing spitback testing of Jaguar Land Rover vehicles is therefore waived in accordance with §86.1810-01(l).

Evaporative Leak Detection

JLR OBD system conforms to current OBD requirements covered in Section 1968.2 of Title 13, CCR.

JLR OBD system is capable of detecting 0.020" inch diameter orifice leakage in the evaporative emissions system.

SC03 Test Procedures

Jaguar Land Rover attests that NMOG+NO_x and CO exhaust emissions for vehicles tested using the SC03 test procedures incorporated in the "California 2026 and Subsequent Model Year Criteria Pollutant Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles", comply with the standards in 13 CCR 1961.4.(d)(4).

Quick Drive-away

Vehicles in this test group are not part of JLR's phase in for Quick drive-away as set forth in 13 CCR 1964.1(d)(2)(C)1(a))

Partial Soak

Vehicles in this test group are not part of JLR's phase in for Partial Soak as set forth in 13 CCR 1964.1(d)(2)(B)1)

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9. OBD Compliance Statement

Jaguar Land Rover states that the OBD system for this test Group meets the full intent of the clean air act as amended in 1970 section 202(m), and the applicable federal OBD regulations, contained in 40 CFR §86.005-17 and 40 CFR §86.1806-01. Furthermore, Jaguar Land Rover states that the OBD system complies with all the requirements of Title 13 CCR 1968.2.

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12. Description of Vehicles Covered by Certificate and Test Parameters**12.1. Description of Vehicle**

Carline	Model Name	Vehicle Class Fed/CAL	Emission Control System Description						Engine Code	N° Valves/ Cyl	Sales Area	Trans & Over-drive	SIL	Standard Tire Size	N/V Ratio	ETW - lb.	Fuel Tank Volume - gal
			Type	Catalyst Config	EGR	Air Pump	Fuel System Type	Intake Air Aspiration Method									
236	Range Rover	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/55R20	23.0	6000	23.8
236	Range Rover	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/50R21	23.0	6000	23.8
236	Range Rover	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/45R22	22.9	6000	23.8
236	Range Rover	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/40R23	22.9	6000	23.8
237	Range Rover LWB	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/55R20	23.0	6500	23.8
237	Range Rover LWB	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/50R21	23.0	6500	23.8
237	Range Rover LWB	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/45R22	22.9	6500	23.8
237	Range Rover LWB	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/40R23	22.9	6500	23.8
240	Range Rover SV	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/55R20	23.0	6500	23.8
240	Range Rover SV	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/50R21	23.0	6500	23.8
240	Range Rover SV	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/45R22	22.9	6500	23.8
240	Range Rover SV	LDT2/LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/40R23	22.9	6500	23.8

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241	Range Rover SV LWB	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/55R20	23.0	6500	23.8
241	Range Rover SV LWB	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/50R21	23.0	6500	23.8
241	Range Rover SV LWB	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/45R22	22.9	6500	23.8
241	Range Rover SV LWB	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/40R23	22.9	6500	23.8
238	Range Rover Sport	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/55R20	23.0	6000	23.8
238	Range Rover Sport	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	275/50R21	23.0	6000	23.8
238	Range Rover Sport	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/45R22	22.9	6000	23.8
238	Range Rover Sport	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	285/40R23	22.9	6000	23.8
239	Range Rover Sport SVR	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	F: 285/45R22 R: 305/40R22	25.8	6000	23.8
239	Range Rover Sport SVR	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	F: 285/40R23 R: 305/35R23	25.8	6000	23.8
239	Range Rover Sport SVR	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	F: 285/40R23 R: 305/35R23 Self Seal	25.8	6000	23.8
239	Range Rover Sport SVR	LDT2/ LDT4	Catalyst	TWC	N/A	N/A	DFI	Turbo Charged	4.4NC11-24	4	50-state	L8	No	F: 275/40R23 R: 305/35R23	25.8	6000	23.8

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12.2 Engine Starting Procedure

With the transmission in P or N, the Smart key inside the vehicle and the brake pedal pressed, press and release the START/STOP button to start the engine.

12.3 Transmissions

Automatic Transmissions

Type 8HP80XMH

A/T code	Class	No. of fwd gears	Overdrive	Gear ratios
8HP80XMH	Automatic	8	Yes	5.500
				3.520
				2.200
				1.720
				1.317
				1.000
				0.833
				0.640

General Description

The 8HP80XMH is an electronically controlled, fully automatic, synchronous 8 speed overdrive transmission with input through a three phase, single stage torque converter. The torque converter incorporates an internal friction clutch which transmits engine torque mechanically when applied in either locked or controlled slip phase.

The shift points and converter clutch application are functions of throttle pedal position and vehicle speed. Each transmission calibration contains the individual shift points for the corresponding transmission application.

Special Features:

The torque converter lock up clutch does not have a torsional damper but has a controlled slip function; this calibrated amount of slip allows lock up to be applied at lower engine speeds without causing NVH problems.

The automatic transmission fluid is a fill for life oil and does not require service. There is no dipstick tube.

The gear selector allows the selection of Park, Reverse, Neutral, Drive and Drive (S) ranges.

A manual sequential shift option is included. Sequential manual gear selection is selected by moving the transmission gear selector to the "S" (Sport) position. Upshifts and downshifts may then be made by operating steering wheel mounted shift paddles.

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Manual Transmission Summary

Manual transmissions are not available.

Shifting/Special Testing

Shifting instruction

Gear-shift interlock

A brake pedal/gear-shift interlock is incorporated in the gear selector mechanism. The gear selector lever may only be moved from the Park position if the ignition is "on" and footbrake is pressed.

Single mode

During normal forward operation of the vehicle the transmission shifts automatically when the transmission selector is positioned in "Drive".

User Selectable modes

The models covered by this application are fitted with a shift selector which operates through R-N-D modes sequentially by moving the selector forward or backward. The vehicle is moved out of P by pressing a release lever on the front of the selector lever while simultaneously depressing the brake pedal. P may be reselected from any gear position by pressing the button located on the top of the selector. Manual shifting is available by operating paddles attached to the rear of the steering wheel, or by operating the select lever (rearward for an upchange, forward for a downchange) while the lever is in the manual position. Manual shifting is enabled by moving the selector to the left.

Jaguar Land Rover has developed a range of driver selectable modes. Not all modes are available on all products and not all modes are considered to be on-road modes.

These driver selectable modes change driveability and transmissions calibratable comfort functions. The driveability functions which are modified are the comfort filters to provide a balance of control, response and comfort to suit the selected mode. The relationship between the physical driver pedal position and the ECU pedal position is changed, effectively making the vehicle feel more or less responsive. The functionality of emissions control strategies is not altered.

In Dynamic Drive mode, The PCM applies a scalar to make the accelerator pedal more sensitive. The transmission applies the same shiftpoints as in Normal drive mode. The PCM applies a scalar to make the accelerator pedal more sensitive.

Driver mode	On/Off-road
Normal mode	On-road
Dynamic mode	On-road
Grass - Gravel - Snow mode	Off-road
Dynamic mode	Off-road
Mud & Ruts mode	Off-road
Sand mode	Off-road
Low Range	Off-road

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**Chassis Dynamometer Operation**

If the vehicle is going to be operated on a chassis dynamometer, disable the traction control facility immediately after selecting drive.

Shift Schedules

As defined in EV-CIS

Special testing procedures**Cooling fans**

For all emissions/fuel economy test cycles, a single fan, placed in the 'down' position, is required for engine cooling purposes.

12.2.4 Dynamometer Loading Information (LVW):

Model	ETW (lbs)	Tire size	Target Coefficients			Set Coefficients*			TRLHP @50
			A	B	C	a	b	c	
Range Rover	6000	275/55R20	38.4	0.269	0.03075	Untested	Untested	Untested	17.2
Range Rover	6000	275/50R21	38.4	0.269	0.03135	Untested	Untested	Untested	16.9
Range Rover	6000	285/45R22	37.8	0.269	0.03210	Untested	Untested	Untested	17.5
Range Rover	6000	285/40R23	37.2	0.269	0.03229	Untested	Untested	Untested	17.5
Range Rover LWB	6500	275/55R20	41.6	0.269	0.02972	Untested	Untested	Untested	17.2
Range Rover LWB	6500	275/50R21	37.7	0.269	0.03113	Untested	Untested	Untested	17.2
Range Rover LWB	6500	285/45R22	40.9	0.239	0.03215	Untested	Untested	Untested	18.0
Range Rover LWB	6500	285/40R23	40.96	0.26918	0.03226	-19.289	0.43206	0.027686	18.0
Range Rover SV	6500	275/55R20	41.6	0.269	0.03144	Untested	Untested	Untested	17.8
Range Rover SV	6500	275/50R21	37.7	0.269	0.03135	Untested	Untested	Untested	17.3
Range Rover SV	6500	285/45R22	40.9	0.269	0.03210	Untested	Untested	Untested	18.0
Range Rover SV	6500	285/40R23	40.9	0.269	0.03174	Untested	Untested	Untested	17.8
Range Rover SV LWB	6500	275/55R20	41.6	0.269	0.02972	Untested	Untested	Untested	17.2

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Range Rover SV LWB	6500	275/50R21	37.7	0.269	0.03113	Untested	Untested	Untested	17.2
Range Rover SV LWB	6500	285/45R22	40.9	0.269	0.03215	Untested	Untested	Untested	18.0
Range Rover SV LWB	6500	285/40R23	40.96	0.26918	0.032262	-19.289	0.43206	0.027686	18.0
Range Rover Sport	6000	275/55R20	39.7	0.322	0.028178	Untested	Untested	Untested	16.8
Range Rover Sport	6000	275/50R21	36.0	0.322	0.02868	Untested	Untested	Untested	16.5
Range Rover Sport	6000	285/45R22	39.1	0.322	0.02959	Untested	Untested	Untested	17.2
Range Rover Sport	6000	285/40R23	38.5	0.322	0.02991	Untested	Untested	Untested	17.3
Range Rover Sport SVR	6000	F: 285/45R22 R: 305/40R22	39.9	0.322	0.03096	Untested	Untested	Untested	17.8
Range Rover Sport SVR	6000	F: 285/40R23 R: 305/35R23	42.9	0.322	0.0308	Untested	Untested	Untested	18.1
Range Rover Sport SVR	6000	F: 285/40R23 R: 305/35R23 Self Seal	49.1	0.322	0.03115	Untested	Untested	Untested	19.1
Range Rover Sport SVR	6000	F: 275/40R23 R: 305/35R23	49.05	0.322	0.030883	Untested	Untested	Untested	19.0

* 4WD Dynamometer

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**12.2.5 Evaporative/Refuelling Data****12.2.5.1 Evaporative Testing Parameters****Canister Loading**

Load at standard rate – 15 g/hr.

Fuel Tank Parameters

Fuel tank volumes

Carline	Evaporative Code	Nominal Capacity	Useable 40% Fill	Vapor volume at 40% Fill
Range Rover	MLA-22	23.8	9.5	17.8
Range Rover Sport	MLA-22	23.8	9.5	17.8

All volumes expressed in US gallons

Fuel tank temperature profiles (FTTP)

FTTP procedure

Fuel tank temperature profiles were determined according to the procedure described in 40CFR Part 86.129-94(d).

FTTP codes

Carline	Evaporative Code	FTTP code
Range Rover	MLA-22	FTTP0460
Range Rover Sport	MLA-22	FTTP0460

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Time (s)	RR Fuel	RR Vapor	RRS Fuel	RRS Vapor
1	104.0	105.1	103.9	110.4
60	103.5	104.5	104.8	109.5
120	103.4	104.8	105.6	109.7
180	101.0	104.9	105.7	110.1
240	101.5	103.8	106.6	110.5
300	102.5	104.6	107.0	111.0
360	102.9	105.5	107.5	111.8
420	102.0	104.7	107.7	111.9
480	102.6	105.2	108.0	111.8
540	102.8	106.0	108.6	112.0
600	103.4	106.5	109.0	112.3
660	103.1	105.8	109.0	112.9
720	103.5	107.0	109.5	113.0
780	103.7	106.9	110.0	112.2
840	104.2	108.5	110.0	112.9
900	104.4	108.9	110.2	113.3
960	104.6	110.1	110.3	113.8
1020	104.9	110.3	110.9	114.3
1080	104.9	108.8	111.3	114.9
1140	105.3	110.2	111.6	114.9
1200	106.1	110.5	111.5	115.2
1260	106.1	111.3	111.7	115.5
1320	106.2	111.4	111.8	115.9
1380	106.5	110.9	112.7	117.0
1440	107.0	112.2	113.4	118.4
1500	107.2	113.3	113.9	118.9
1560	107.0	112.0	114.3	119.2
1620	108.6	111.6	115.0	119.0
1680	109.0	112.7	115.7	119.5
1740	108.8	112.4	115.8	118.6
1800	109.0	112.7	116.4	119.9
1860	108.7	113.8	117.0	120.2
1920	109.0	114.5	117.5	120.7
1980	109.7	115.5	117.7	120.7
2040	109.5	114.6	117.3	120.2
2100	110.2	115.7	117.1	120.6
2160	109.8	114.8	117.3	121.6
2220	111.3	114.0	117.9	121.5

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2280	111.8	115.4	118.4	123.0
2340	111.7	114.8	118.9	122.1
2400	112.2	115.0	120.2	124.2
2460	112.6	115.9	121.1	124.9
2520	112.1	116.6	121.6	126.3
2580	113.7	118.5	121.9	126.1
2640	112.9	117.4	122.8	126.2
2700	114.6	119.1	123.0	127.6
2760	114.0	120.5	123.2	128.3
2820	114.5	120.1	123.6	129.2
2880	114.2	119.6	124.3	128.9
2940	114.6	119.8	124.8	129.4
3000	115.2	118.5	124.0	128.5
3060	116.1	119.4	124.3	128.6
3120	117.1	121.0	125.0	129.8
3180	115.7	121.4	125.1	129.8
3240	116.2	118.9	125.1	129.3
3300	116.6	119.5	125.3	129.4
3360	117.2	119.6	126.5	130.2
3420	117.0	120.6	127.2	131.7
3480	116.3	121.0	127.7	132.2
3540	117.1	120.4	128.3	132.6
3600	116.9	120.9	128.6	132.0
3660	118.2	121.9	128.4	132.5
3720	118.0	122.3	128.8	133.0
3780	118.8	122.9	129.6	134.4
3840	118.4	122.5	129.8	134.7
3900	118.8	122.8	130.3	134.9
3960	118.8	123.4	130.1	134.3
4020	119.1	122.8	130.2	134.2
4080	119.1	122.8	130.6	134.0
4140	119.5	123.7	131.0	134.9
4200	119.8	124.5	131.7	135.9
4260	120.6	126.2	131.9	137.1
4307	121.1	127.0	132.4	137.6

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12.2.5.2. Fuel Tank Temperature Profile Report
(Land Rover FP9.8 & Ford CETP 00.00-L-414)

Compiled By: Lee Dunn Date: June 2023

Subject

Fuel tank temperature profile for Range Sport & Range Rover to EPA standard.

Summary

Vehicle tests were conducted to determine a fuel tank temperature profile for the Range Rover & Range Rover Sport.

Conclusion

The fuel tank temperature profile determined by this test complies with Environmental Protection Agency procedure detailed in 40CFR 86.129.94.

Test Vehicle Specification

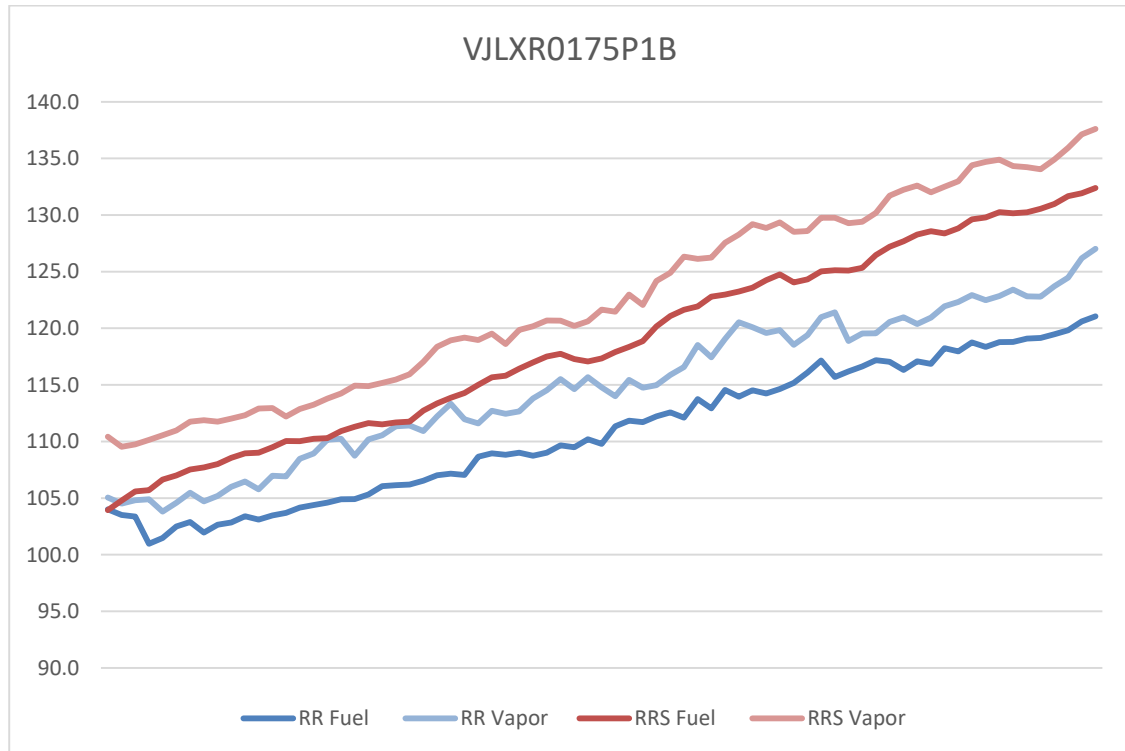
FTTP Code: MLA-22
Model: Range Rover LWB
Transmission: 8 speed automatic
Fleet identity: 3KRVB059
Test Weight: 6000lbs

FTTP Code: MLA-22
Model: Range Rover Sport
Transmission: 8 speed automatic
Fleet identity: 3PNTT005
Test Weight: 5500lbs

Test Location

Exponent Phoenix, AZ
USA

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14. Request for Certification

14.1 Statement of Compliance

Refer to Common Section, Section 14.

14.2. Request for certificate

Based on Jaguar Land Rover's good engineering judgment, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards.

Therefore, Jaguar Land Rover herewith applies for a federal Certificate of Conformity and a California ARB Executive Order for Test Group VJLXT04.4GTG.

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

Ian Munden
Manager
Emissions Certification for North America
Jaguar Land Rover

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15. Other Information

15.1. Label according to 40 CFR § 86.1807-01 and according to California Motor Vehicle Emission Control Label Specifications.

15.1.1

15.1.2 Label Location: Under-bonnet.

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15.2. Fee Filing Form

See attached page.

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15.3. OBD System Approval Letter

See attached page.

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**Adjustable Parameters**

There are no parameters present on any vehicle covered by this application that can be considered adjustable within the context of 40CFR Part 86.1833-01.

Fuel Specifications

Fuels Recommended to the Owner

Full statements concerning fuel recommendations are contained in the Vehicle Owners Handbooks.

Test and Service Accumulation Fuel

All test and service accumulation fuels relating to this Application for Certification are equivalent to those specified in 40CFR Part 86, Subpart S, and the California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light -Duty Trucks, and Medium-Duty Vehicles. Specifications and/or analyses will be supplied on request.

Lubricant specifications**Engine**

	Factory fill	Recommended to ultimate purchaser	To be used in test vehicles
Generic type	Hydrocarbon	Hydrocarbon	Hydrocarbon
Service designation	STJLR.03.5007	STJLR.03.5007	STJLR.03.5007
Viscosity	SAE 0W30	SAE 0W30	SAE 0W30

Automatic Transmissions

The transmissions are sealed for life and the factory fill materials are listed below. All lubricants are hydrocarbon based and contain no friction modifiers.

ZF 8HP80XMH 8 Speed Automatic Transmission: ZF Lifeguard Hybrid 2

Drive Axle and Differential

The differentials are sealed for life and the factory fill materials are listed below. All lubricants are hydrocarbon based and contain no friction modifiers.

All Test Groups: Castrol BOT750B

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Litmus Result

EDV/FEDV input data: 3KRTT018	Vehicle-Specific 5-Cycle FE: \$600.114-12	Litmus threshold \$600.115-11	Derived 5-Cycle FE: (MPG-Approach) \$600.210-12	
Normal temperature FTP75: C7 2023-05-31 09	5-Cycle City Label: Start FC (City) 0.0036031 Running FC (City) 0.0564955 5-cycle City FE Adj/Unrnd 15.0586 5-cycle City Litmus value 15.1 City Label 15	14.8	MPG-Approach City Label: City Intercept 0.004091 City Slope 1.1601 5-cycle City FE Adj/Unrnd 15.4251 5-cycle City FE Adj/Rnd 15.4 City Label 15	MPG Approach City value in band
UDDS Bag 1 ₇₅ FE 18.3050 4dp UDDS Bag 2 ₇₅ FE 18.1390 4dp UDDS Bag 3 ₇₅ FE 21.9210 4dp UDDS Bag 4 ₇₅ FE 18.5090 4dp FE total Unrounded 19.0720 4dp FE RND (EPA) 19.1 1dp	5-Cycle Highway Label: Start FC (Highway) 0.0002462 Running FC (Highway) 0.0419992 5-cycle Highway FE Adj/Unrnd 21.4224 5-cycle Highway Litmus value 21.4 Highway Label 21	21.1	MPG-Approach Highway Label: Highway Intercept 0.003191 Highway Slope 1.2945 5-cycle Highway FE Adj/Unrnd 22.1807 5-cycle Highway FE Adj/Rnd 22.2 Highway Label 22	MPG Approach Highway value in band
Cold Temperature FTP20: 08 June 2023 JLR TT018 FTP EPA 75 3 Bag Engine				
UDDS Bag 1 ₂₀ FE 13.8029 4dp UDDS Bag 2 ₂₀ FE 14.9941 4dp UDDS Bag 3 ₂₀ FE 18.8846 4dp FE RND (EPA) 15.6000 1dp				
Highway Fuel Economy Test: C7 2023-05-31 11				
HFET FE Unrnd 30.8760 4dp FE RND (EPA) 30.9 1dp				
Supplemental FTP: US06 C7 2023-05-31 12				
US06 City FE 11.9 1dp US06 Highway FE 23.0 1dp US06 FE RND 19.1 1dp				
SC03 C7 2023-05-31 13				
SC03 FE RND 16.3 1dp				
Start Fuel: Start Fuel ₇₅ 0.036739528 Start Fuel ₂₀ 0.0701833				
			MPG Approach Highway value in band Start FC (Highway) 0.0002600 Running FC (Highway) 0.0419885 3-cycle Highway FE 21	3-cycle calcs: 0.0002600 0.0419885 21.4209
			Combined Numbers 2-Cycle Combined 18 17.8750 3-Cycle Combined 18 17.6480 5-Cycle Combined 17 17.3822	

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**17. California ARB Information****17.1. Statements**

Vehicles covered by this application are not fitted with defeat devices.

All AECDs used on vehicles covered by this application are declared and described in section 16 of the application and the common section.

Test and production vehicles covered by this application do not use multiple maps in the engine management system. Modes used during on-road operation are identical to those used in testing.

Vehicles covered by this application do not use transmission calibrations which interact with the engine management or emission control systems in order to assist engine or catalyst warm-up.

The transmission calibration does not include different modes for on-road and dynamometer operation. Transmission behaviour is identical in both cases.

Also refer to Common Section, Section 17

17.2 Fill Pipe Specification

Refer to Common Section, Section 17

17.3 Projected Sales

Refer to Common Section, Section 16, Confidential Information

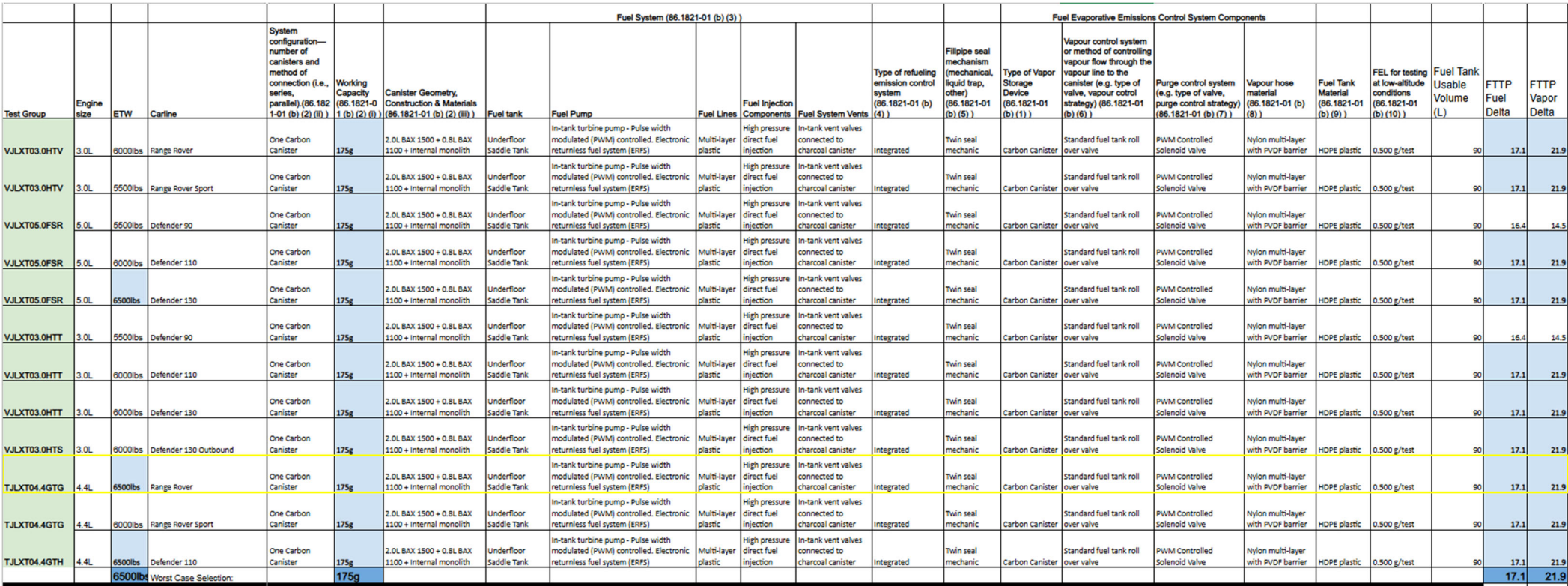
17.4 Evaporative Emission Deterioration**17.4.3 Selection of Emission Data Vehicle for Evaporative Emission****17.4.3.1. Worst Case Selection**

Worst Case selection is carried out according to the provisions in 40 CFR § 86.1828-01 (b)(3). Using good engineering judgment, JLR believe carry-across data are representative of a worst case vehicle. The worst-case vehicle selection is highlighted in yellow in the table on the next page.

Canister size, canister material, fuel tank material, purge strategy and flow rates and refueling characteristics are common between all vehicles within the evaporative family.

The driver mode for evaporative testing was "Normal mode – D".

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17.4.3.2. Test Vehicle Description (ORVR)

Vehicle Identification Number	3KMVP032
Evaporative Emission Code	MLA-22
Model	Range Rover
Emission Control System:	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC
Displacement	4395 cm ³
Engine Code	4.4NC10-22
Evaporative Family	PJLXR0175P1B
Equivalent Test Weight	6500 lb.
Actual Vehicle Weight	
Curb Weight	5705 lb.
Drive Axle Weight	3505 lb.
Air Conditioning	Yes
Transmission Type	S8
Transmission Code	8HP76
Axle Ratio	3.31
N/V Ratio	22.9
Tire Manufacturer	Pirelli
Tire Size	285/45R22

17.4.5.2.2. EPA Fuel Tank Temperature Profile and Ambient Conditions

The temperature correction was performed in accordance with Federal Evaporative Emission Standards and Test Procedures using the following equation:

$$T_{i, \text{profile}} = T_i - T_o$$

T_i is the series of observed liquid fuel temperature during the drive (°F) where *i* is the incremental measurement in time

T_o is the liquid fuel temperature observed at the start of the specified driving schedule (°F).

T_{i, profile} is the series of temperatures that comprise the relative temperature profile for table of T_i refer to Enclosure 1 of Section 12.

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Range Rover, Range Rover
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17.4.6. Test Results for Evaporative Emissions

17.4.6.1 Enhanced Evaporative Emissions Test

17.4.6.1.1 Test Results of Durability Data Vehicle, Calculation of Evaporative
Emission and Running Losses Deterioration Factor:

Miles	3 Day Evap. (g/test)	Running Losses (g/mi.)	Refueling g/gal
4 000 (Set A)	0.251	0.000508	0.073
4 000 (Set B)	0.276	0.000524	0.004
150 000 (Set A)	0.256	0.000452	0.0263
150 000 (Set B)	0.229	0.000523	0.0171
<u>Average Values</u>			
4 000	0.2635	0.000516	0.0382
150 000	0.2425	0.0004875	0.0217
<u>Deterioration factors</u>	<u>0.000</u>	<u>0.00</u>	<u>0.00</u>

17.4.6.1.2. Test Results of Emission Data Vehicle

4K Evaporative Emission Test Data		Deterioration Factors	Compliance with Std.	Standard	Unit
Test Vehicle Model	Range Rover		Test Data + DF		
Test Vehicle id	3KMVP032				
3-Diurnal SHED Test	0.3095	0.000	0.3095	0.500	g
Running Loss Test	0.000516	0.00	0.000516	0.01	g/mi.
Refueling Test	0.0382	0.00	0.0382	0.2	g/gal

REVISED:



17.6. Vehicle weights

17.6.1. Curb weight:

5946 lb Range Rover
6185 lb Range Rover LWB 5-seat
6065 lb Range Rover LWB 7-seat
6329 lb Range Rover SV
6300 lb Range Rover SV LWB 5-seat
6316 lb Range Rover SV LWB 4-seat
5946 lb Range Rover Sport
5765 lb Range Rover Sport SVR

17.6.2. Gross vehicle weight rating:

7452 lb Range Rover
7495 lb Range Rover LWB 5-seat
7605 lb Range Rover LWB 7-seat
7452 lb Range Rover SV
7470 lb Range Rover SV LWB 5-seat
7495 lb Range Rover SV LWB 4-seat
7452 lb Range Rover Sport
7160 lb Range Rover Sport SVR

17.6.3. Equivalent test weight:

6000 lb Range Rover
6500 lb Range Rover LWB 5-seat
6500 lb Range Rover LWB 7-seat
6500 lb Range Rover SV
6500 lb Range Rover SV LWB 5-seat
6500 lb Range Rover SV LWB 4-seat
6000 lb Range Rover Sport
6000 lb Range Rover Sport SVR

REVISED:



18. Revision Log

<u>Revision No.</u>	<u>Revision Date</u>	<u>Pages Affected</u>	<u>Description of Revision</u>
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REVISED: