



Application for Certification

VJLXT03.0HTT

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Defender

Part 1

Issued: 04/08/26

Application for Emissions Certification

Model Year: 2027

Durability Group: VJLXGPGNNHTT
Evaporative Family: VJLXR0175P1B
Test Group: VJLXT03.0HTT
Summary Sheet No: CSI-VJLXT03.0HTT-VJLXR0175P1B

Durability Group Description: I6, Otto Cycle
Gasoline Fuelled MHEV
Sequential Fuel Injection
Ceramic Monolith Pd/Rh Catalyst

Test Group Description: 3.0 litre I6 Turbocharged MHEV

Applicable Standards: Federal LDT4 – Interim Tier 4 Bin 30
California LDT2 – LEV IV SULEV30

Carline Covered: 317: Defender 90 P300 MHEV
301: Defender 90 P400 MHEV
318: Defender 110 P300 MHEV
319: Defender 110 P400 MHEV
312: Defender 130 P300 MHEV
313: Defender 130 P400 MHEV

EPA Response Requested By: August 17th 2026

For questions, Contact: Vahakn Varjabedian (201) 818 – 8139
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5. Test Group Description

- | | | |
|--------|--------------------------------------|--|
| 5.1. | Test Group name | VJLXT03.0HTT |
| 5.2. | Summary Sheet number | CSI- VJLXT03.0HTT - VJLXR0175P1B |
| 5.3. | Engine displacement | 2996 cm ³ |
| 5.4. | Arrangement and number of cylinders: | |
| 5.4.1. | Arrangement of cylinders: | In-line Configuration. |
| 5.4.2. | Number of cylinders: | 6 |
| 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 30
California – LEV IV SULEV30 |
| 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 System	Control	Engine Code	Trans	ETW	Axle Ratio	Remarks
313	3ETVOL004	00	2996	WR-H02S/GPF/TWC/HO2S (2)/DFI/TC/SCE/CAC		3.0AJMH-19	S8	6000	3.55	Defender 130 400PS EDV
313	3ETVOL006	04	2996	WR-H02S/GPF/TWC/HO2S (2)/DFI/TC/SCE/CAC		3.0AJRM-19	S8	6000	3.55	Defender 130 400PS FEDV
300	3ETVOL006	03	2996	WR-H02S/GPF/TWC/HO2S (2)/DFI/TC/SCE/CAC		3.0AJMH-19	S8	5500	3.55	Defender 110 400PS FEDV
318	3ETVOL006	02	2996	WR-H02S/GPF/TWC/HO2S (2)/DFI/TC/SCE/CAC		3.0AJMM-19	S8	5500	3.55	Defender 110 300PS FEDV
301	3ETVOL004	04	2996	WR-H02S/GPF/TWC/HO2S (2)/DFI/TC/SCE/CAC		3.0AJMH-19	S8	5500	3.55	Defender 90 400PS FEDV
317	3ETVOL004	03	2996	WR-H02S/GPF/TWC/HO2S (2)/DFI/TC/SCE/CAC		3.0AJMM-19	S8	5500	3.55	Defender 90 300PS FEDV
312	3KMVP032	00	4395	2WR-HO2S/2TWC/2HO2S/DFI/2TC/2CAC		4.4NC10-22	S8	6500	3.31	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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6.1.1. Test Vehicle Description (EV-CIS VI outputs)

Information Process Code : N**EPA Manufacturer Code** : JLX**Vehicle Identification Text** : 3ETVOL004**Vehicle Configuration Number** : 0

Vehicle Configuration Details

Vehicle Description Details

Manufacturer Vehicle Configuration Number : 0**Test Group Name** : TJLXT03.0HTT**Evaporative Refueling Family Name** : TJLXR0175P1B**Model Year** : 2026**Actual Test Vehicle Make Text** : Land Rover**Actual Test Vehicle Model Text** : Defender 130 MHEV

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** : 3.0AJMH-19**Engine Rated Horsepower Value** : 400**Engine Displacement Value** : 3.0

Air Aspiration Details

Air Aspiration Method Identifier : TS**Air Aspiration Device Count** : 2**Air Aspiration Configuration Identifier** : PS



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Charge Air Cooler Identifier : L

Vehicle Specifications Details

Curb Weight Value : 5857**Equivalent Test Weight Value : 6000****Gross Vehicle Weight Rating Value : 7452****NV Ratio Value : 24.5****Axle Ratio Value : 3.55**

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 : 65.9****Target CoefficientB Value : 0.409****Target CoefficientC Value : 0.03553****Set CoefficientA Value : 5.373****Set CoefficientB Value : 0.18379****Set CoefficientC Value : 0.033584**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : Cold-CO**Target CoefficientA Value : 72.49****Target CoefficientB Value : 0.4499****Target CoefficientC Value : 0.039083****Set CoefficientA Value : 5.373****Set CoefficientB Value : 0.18379****Set CoefficientC Value : 0.033584**

Target Set Coefficient Details

Test Procedure Dynamometer Coefficients Category : US06**Target CoefficientA Value : 65.9****Target CoefficientB Value : 0.409****Target CoefficientC Value : 0.03553****Set CoefficientA Value : 5.373****Set CoefficientB Value : 0.18379****Set CoefficientC Value : 0.033584**



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Manufacturer Comment Text : Land Rover Defender 130 3.0L MHEV EDV. 255/60R19 Goodyear Wrangler Tires.

EPA Generated Test Vehicle Details

Original Receipt Date : 20250529

Hybrid Vehicle Indicator : Y

Adjusted Loaded Vehicle Weight Value : 6654

Loaded Vehicle Weight Value : 6157

Total Road Load Horsepower Value : 23.4

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****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



6.2 EDV Selection

According to 86.1828-01 the Defender 130 with 255/65R19 Goodyear Wrangler All Terrain Adventure tires is expected to be worst-case for exhaust emission compliance within this test group. The ETW of 6000 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 normal drive 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.	Type of Test	Test Number
3ETVOL004	00	FTP	TJLX10091142
		HWY	TJLX10091143
		US06	TJLX10091144
		SC03	TJLX10091145
		FTP20	TJLX10091146
		FTP50	TJLX10091147
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
		Canister Bleed	NJLX10073373



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7. Test Results (Cover page)

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



8. Emission Testing Waiver Statements

High Altitude Testing

Based on an engineering evaluation of appropriate high-altitude emission testing Jaguar Land Rover 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 evaporative/refuelling family VJLXR0175P1B comply with the applicable two-day evaporative emission standard.

Jaguar Land Rover therefore waive 2-Diurnal Evaporative emissions data submittal 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 waiver 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.

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+NOx 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)

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									
301	Defender 90	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/65R19 Pirelli	24.5	5500	23.4
301	Defender 90	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/65R19 Goodyear	24.5	5500	23.4
301	Defender 90	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/60R20 Michelin	24.5	5500	23.4
301	Defender 90	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/60R20 Goodyear	24.5	5500	23.4
301	Defender 90	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	275/45R22 Continental	24.8	5500	23.4
300	Defender 110	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/65R19 Pirelli	24.5	6000	23.8
300	Defender 110	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/65R19 Goodyear	24.5	6000	23.8
300	Defender 110	LDT4/LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/60R20 Michelin	24.5	6000	23.8



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300	Defender 110	LDT4/ LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	255/60R20 Goodyear	24.5	6000	23.8
300	Defender 110	LDT4/ LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJMH-19	4	50-state	S8	No	275/45R22 Continental	24.8	6000	23.8
312	Defender 130	LDT4/ LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJRM-23	4	50-state	S8	No	255/65R19 Pirelli	24.5	6000	23.8
312	Defender 130	LDT4/ LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJRM-23	4	50-state	S8	No	255/65R19 Goodyear	24.5	6000	23.8
312	Defender 130	LDT4/ LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJRM-23	4	50-state	S8	No	255/60R20 Pirelli	24.5	6000	23.8
312	Defender 130	LDT4/ LDT2	Catalyst	TWC	N/A	N/A	DFI	Turbocharged and E-Supercharged	3.0AJRM-23	4	50-state	S8	No	275/45R22 Continental	24.8	6000	23.8



12.2. Test Parameters

12.2.1. Engine Starting Procedure

Position transmission gear selector in P or N. Switch on ignition and operate starter. Release starter switch as soon as the engine starts.

12.2.2. Shift Schedules

Shifting

Automatic Transmission Summary

A/T code	Class	No. of fwd gears	Overdrive	Gear ratios
8HP76	automatic	8	yes	5.500
				3.520
				2.200
				1.720
				1.317
				1.000
				0.823
				0.640

General Description

The 8HP76 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" (Sequential shift) position. Upshifts and downshifts may then be made by operating steering wheel mounted shift paddles.

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

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

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.

12.2.3 EPA Shift Schedule: FTA / HWA



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12.2.4 Dynamometer Loading Information (LVW):

Model	ETW (lbs)	Tyre size	Target Coefficients			Set Coefficients*			TRLHP @50
			A	B	C	a	b	c	
Defender 90	5500	255/70R18 Goodyear	56.5	0.197	0.03659	Untested	Untested	Untested	21.0
Defender 90	5500	255/65R19 Pirelli	43.0	0.197	0.03653	-20.548	-0.20043	0.036041	19.2
Defender 90	5500	255/65R19 Goodyear	55.1	0.197	0.03724	Untested	Untested	Untested	21.1
Defender 90	5500	255/60R20 Michelin	38.3	0.197	0.03613	Untested	Untested	Untested	18.5
Defender 90	5500	255/60R20 Goodyear	55.1	0.197	0.03726	Untested	Untested	Untested	21.1
Defender 90	5500	275/45R22 Continental	43.0	0.197	0.03707	-18.789	-0.1999	0.03674	19.4
Defender 110	6000	255/70R18 Goodyear	61.6	0.197	0.03653	Untested	Untested	Untested	21.7
Defender 110	6000	255/65R19 Pirelli	46.9	0.197	0.03661	Untested	Untested	Untested	19.8
Defender 110	6000	255/65R19 Goodyear	60.1	0.197	0.03715	Untested	Untested	Untested	21.7
Defender 110	6000	255/60R20 Pirelli	44.0	0.197	0.03632	-10.033	0.02410	0.03460	19.3
Defender 110	6000	255/60R20 Goodyear	60.1	0.197	0.03721	Untested	Untested	Untested	21.7
Defender 110	6000	275/45R22 Continental	46.9	0.197	0.03713	-4.953	-0.22997	0.037899	19.9
Defender 130	6000	255/65R19 Pirelli	46.9	0.197	0.03591	Untested	Untested	Untested	19.5
Defender 130	6000	255/65R19 Goodyear	60.1	0.197	0.03591	Untested	Untested	Untested	21.3
Defender 130	6000	255/60R20 Pirelli	44.0	0.197	0.03574	Untested	Untested	Untested	19.1
Defender 130	6000	275/45R22 Continental	46.9	0.197	0.03651	-7.230	-0.03683	0.035430	19.7

* 4WD Dynamometer

12.2.5. Evaporative/Refuelling Data

12.2.5.1. Evaporative Testing Parameters

Canister Loading rate – 15 g/hr.

Fuel Tank Parameters

Fuel Tank Volumes

Carline	Evaporative Code	Nominal Capacity (USG)	Useable 40% Fill	Vapor volume at 40% Fill
Defender 130	D7u-20	23.8	9.5	19.8
Defender 110	D7u-20	23.8	9.5	19.8
Defender 90	D7u-20	23.4	9.4	19.2

FTTP Codes

Carline	Evaporative Code	FTTP Code
Defender 130	D7u-20	FTTP130663
Defender 110	D7u-20	FTTP110663
Defender 90	D7u-20	FTTP90663



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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

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

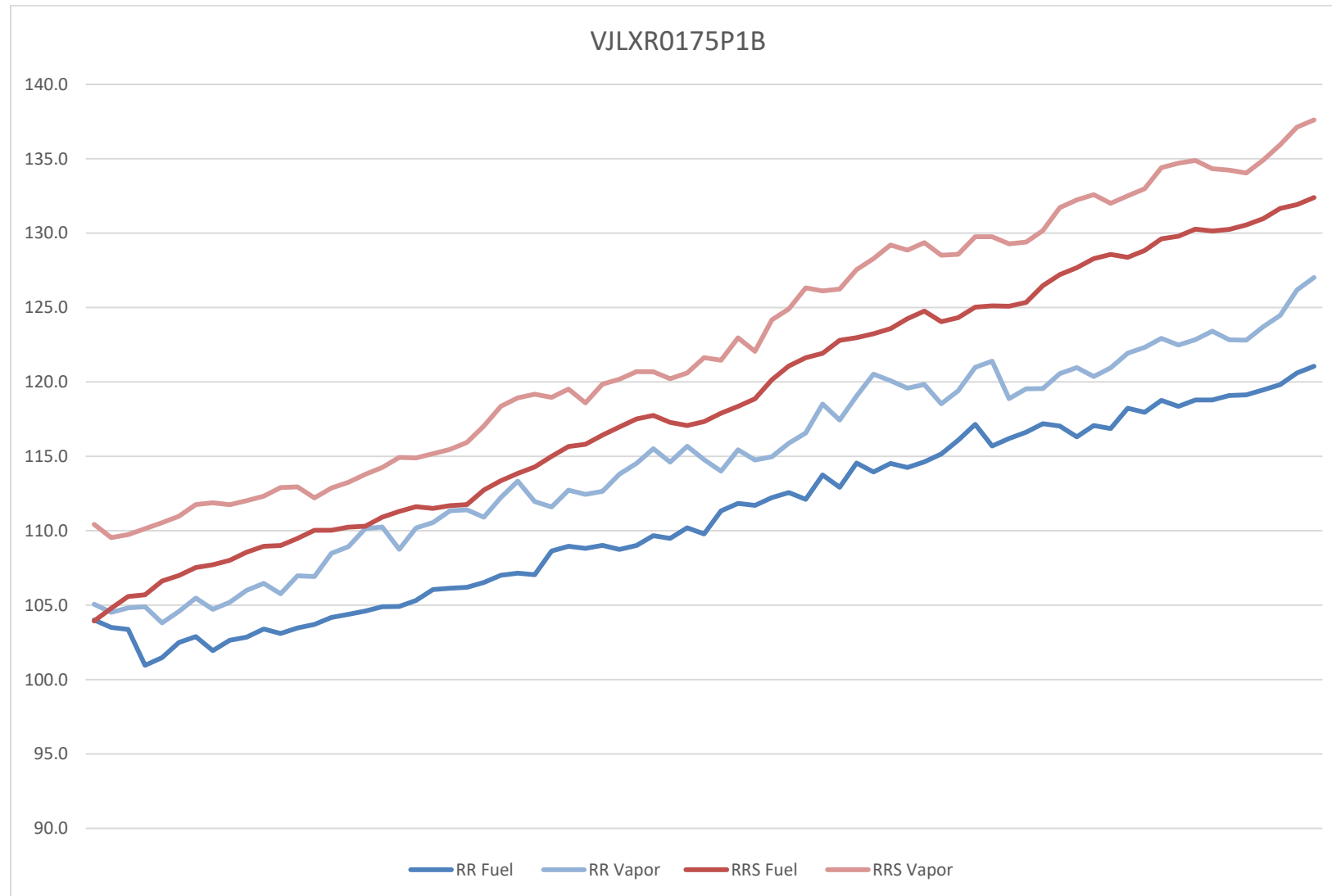
Test Location

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 VJLXT03.0HTT.

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
Jaguar Land Rover

Defender

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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 (VECI 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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Other Information**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	CASTROL BOT942	LG4	CASTROL BOT942	LG4	CASTROL BOT942	LG4
Viscosity	SAE 0W20		SAE 0W20		SAE 0W20	

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 8HP70 8 Speed Transmission: ZF Lifeguard

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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5-Cycle Label Litmus data

This test group is certified using EPA Tier 3 E10 Regular Gasoline, for which City and Highway Litmus thresholds and test values are not calculated in the EPA EV-CIS system.

For this Test Group Litmus Values and Thresholds have been calculated off-line, using tests carried out using EPA Tier 2 Low Sulphur Gasoline.

For this test group the litmus test indicates that vehicle specific 5-cycle fuel economy testing is required.

EDV/FEDV input data: Normal temperature FTP75: CDC6 2025-05-08 13 <table> <tr><td>UDDS Bag 1₇₅ FE</td><td>19.5900</td><td>4dp</td></tr> <tr><td>UDDS Bag 2₇₅ FE</td><td>21.2240</td><td>4dp</td></tr> <tr><td>UDDS Bag 3₇₅ FE</td><td>22.3140</td><td>4dp</td></tr> <tr><td>UDDS Bag 4₇₅ FE</td><td>21.6030</td><td>4dp</td></tr> <tr><td>FE total Unrounded</td><td>21.2515</td><td>4dp</td></tr> <tr><td>FE RND (EPA)</td><td>21.3</td><td>1dp</td></tr> </table> Cold Temperature FTP20: CDC3 2025-04-25 03 <table> <tr><td>UDDS Bag 1₂₀ FE</td><td>13.9510</td><td>4dp</td></tr> <tr><td>UDDS Bag 2₂₀ FE</td><td>16.1040</td><td>4dp</td></tr> <tr><td>UDDS Bag 3₂₀ FE</td><td>18.6590</td><td>4dp</td></tr> <tr><td>FE RND (EPA)</td><td>16.2</td><td>1dp</td></tr> </table> Highway Fuel Economy Test: CDC6 2025-04-15 06 <table> <tr><td>HFET FE Unmd</td><td>27.9640</td><td>4dp</td></tr> <tr><td>FE RND (EPA)</td><td>28.0</td><td>1dp</td></tr> </table> Supplemental FTP: US06 CDC6 2025-04-15 06 <table> <tr><td>US06 City FE</td><td>11.9</td><td>1dp</td></tr> <tr><td>US06 Highway FE</td><td>20.2</td><td>1dp</td></tr> <tr><td>US06 FE RND</td><td>17.5</td><td>1dp</td></tr> </table> SC03 CDC6 2025-05-09 01 <table> <tr><td>SC03 FE RND</td><td>15.7</td><td>1dp</td></tr> </table> Start Fuel: <table> <tr><td>Start Fuel₇₅</td><td>0.025657295</td></tr> <tr><td>Start Fuel₂₀</td><td>0.0651096</td></tr> </table>	UDDS Bag 1 ₇₅ FE	19.5900	4dp	UDDS Bag 2 ₇₅ FE	21.2240	4dp	UDDS Bag 3 ₇₅ FE	22.3140	4dp	UDDS Bag 4 ₇₅ FE	21.6030	4dp	FE total Unrounded	21.2515	4dp	FE RND (EPA)	21.3	1dp	UDDS Bag 1 ₂₀ FE	13.9510	4dp	UDDS Bag 2 ₂₀ FE	16.1040	4dp	UDDS Bag 3 ₂₀ FE	18.6590	4dp	FE RND (EPA)	16.2	1dp	HFET FE Unmd	27.9640	4dp	FE RND (EPA)	28.0	1dp	US06 City FE	11.9	1dp	US06 Highway FE	20.2	1dp	US06 FE RND	17.5	1dp	SC03 FE RND	15.7	1dp	Start Fuel ₇₅	0.025657295	Start Fuel ₂₀	0.0651096	Vehicle-Specific 5-Cycle FE: \$600.114-12 5-Cycle City Label: <table> <tr><td>Start FC (City)</td><td>0.0028272</td></tr> <tr><td>Running FC (City)</td><td>0.0538902</td></tr> <tr><td>S-cycle City FE Adj/Unmd</td><td>15.9563</td></tr> <tr><td>S-cycle City Litmus value</td><td>16.0</td></tr> <tr><td>City Label</td><td>16</td></tr> </table> 5-Cycle Highway Label: <table> <tr><td>Start FC (Highway)</td><td>0.0001932</td></tr> <tr><td>Running FC (Highway)</td><td>0.0478479</td></tr> <tr><td>S-cycle Highway FE Adj/Unmd</td><td>18.8380</td></tr> <tr><td>S-cycle Highway Litmus value</td><td>18.8</td></tr> <tr><td>Highway Label</td><td>19</td></tr> </table>	Start FC (City)	0.0028272	Running FC (City)	0.0538902	S-cycle City FE Adj/Unmd	15.9563	S-cycle City Litmus value	16.0	City Label	16	Start FC (Highway)	0.0001932	Running FC (Highway)	0.0478479	S-cycle Highway FE Adj/Unmd	18.8380	S-cycle Highway Litmus value	18.8	Highway Label	19	Litmus threshold \$600.115-11 Derived 5-Cycle FE: (MPG-Approach) \$600.210-12 MPG-Approach City Label: <table> <tr><td>City Intercept</td><td>0.004091</td></tr> <tr><td>City Slope</td><td>1.1601</td></tr> <tr><td>S-cycle City FE Adj/Unmd</td><td>17.0777</td></tr> <tr><td>S-cycle City FE Adj/Rnd</td><td>17.1</td></tr> <tr><td>City Label</td><td>17</td></tr> </table> MPG-Approach Highway Label: <table> <tr><td>Highway Intercept</td><td>0.003191</td></tr> <tr><td>Highway Slope</td><td>1.2945</td></tr> <tr><td>S-cycle Highway FE Adj/Unmd</td><td>20.2091</td></tr> <tr><td>S-cycle Highway FE Adj/Rnd</td><td>20.2</td></tr> <tr><td>Highway Label</td><td>20</td></tr> </table> FEDV U S06 testing required <table> <tr><td>Start FC (Highway)</td><td>0.0001907</td></tr> <tr><td>Running FC (Highway)</td><td>0.0475922</td></tr> <tr><td>3-cycle Highway FE</td><td>19</td></tr> </table>	City Intercept	0.004091	City Slope	1.1601	S-cycle City FE Adj/Unmd	17.0777	S-cycle City FE Adj/Rnd	17.1	City Label	17	Highway Intercept	0.003191	Highway Slope	1.2945	S-cycle Highway FE Adj/Unmd	20.2091	S-cycle Highway FE Adj/Rnd	20.2	Highway Label	20	Start FC (Highway)	0.0001907	Running FC (Highway)	0.0475922	3-cycle Highway FE	19	FEDV 20F, U S06 and SC03 testing required FEDV U S06 testing required 3-cycle calcs: <table> <tr><td>Start FC (Highway)</td><td>0.0001907</td></tr> <tr><td>Running FC (Highway)</td><td>0.0475922</td></tr> <tr><td>3-cycle Highway FE</td><td>18.9398</td></tr> </table> Combined Numbers <table> <tr><th></th><th>Rounded Adjusted</th><th>Unrounded Adjusted</th></tr> <tr><td>2-Cycle Combined</td><td>18</td><td>18.3577</td></tr> <tr><td>3-Cycle Combined</td><td>18</td><td>17.8682</td></tr> <tr><td>5-Cycle Combined</td><td>17</td><td>17.1359</td></tr> </table>	Start FC (Highway)	0.0001907	Running FC (Highway)	0.0475922	3-cycle Highway FE	18.9398		Rounded Adjusted	Unrounded Adjusted	2-Cycle Combined	18	18.3577	3-Cycle Combined	18	17.8682	5-Cycle Combined	17	17.1359
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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.

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

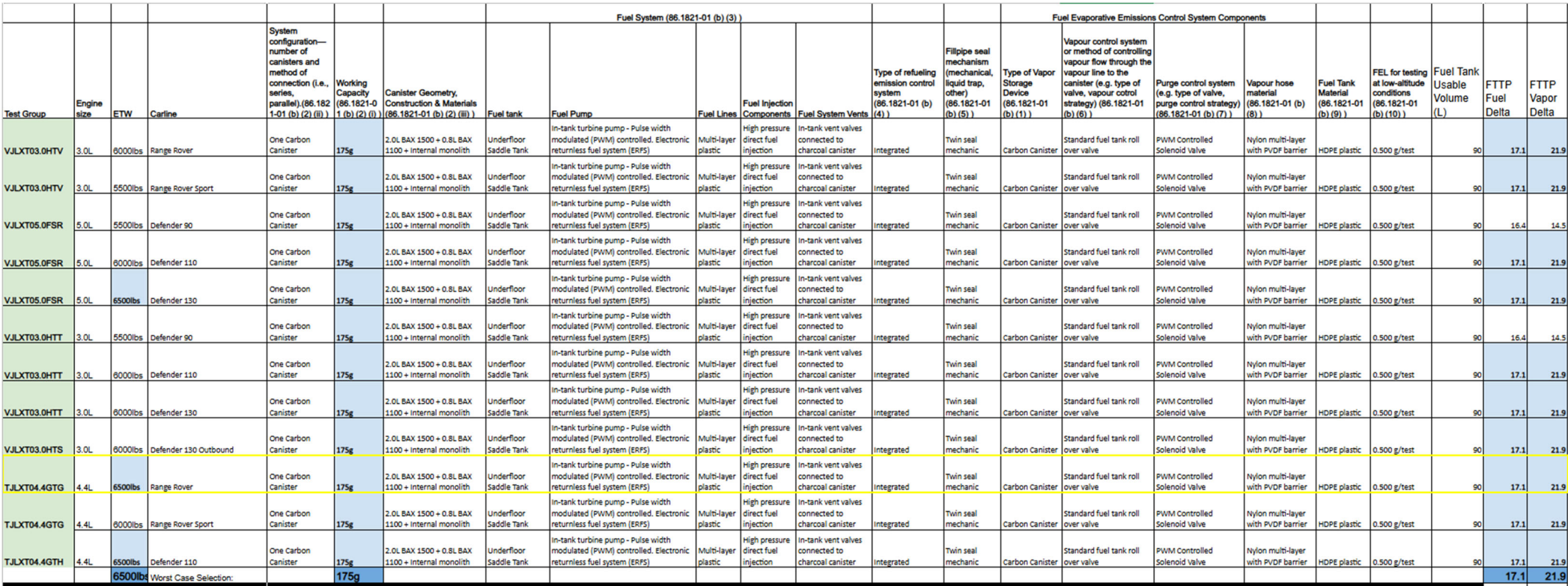
Refer to Common Section, Section 16, Confidential Information

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".





Defender

Part 1

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Test Vehicle Description

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	NJLXR0175P1B
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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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

Average Values

4 000	0.2635	0.000516	0.0382
150 000	0.2425	0.0004875	0.0217

Deterioration factors **0.000** **0.00** **0.00**

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	New 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	0.05	g/mi.
Refueling Test	0.0382	0.00	0.0382	0.2	g/gal



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Method for Calculation of CO₂ Equivalent Value & GHG score:

CO₂- Equivalent Value =

$CO_2 + (296 \times N_2O) + (23 \times CH_4) - A/C \text{ Direct Emissions Allowance} - A/C \text{ Indirect Emissions Allowance}$

Where:

A/C-direct is credit for "Low leak" A/C system

A/C-indirect is credit for "Improved system"

Fuel Adjustment Factor = 1.0 (gasoline)

CO₂ equivalent emissions values calculated according to 3(a)(1)(A) of the CALIFORNIA ENVIRONMENTAL PERFORMANCE LABEL SPECIFICATIONS FOR 2009 AND SUBSEQUENT MODEL YEAR PASSENGER CARS, LIGHT-DUTY TRUCKS, AND MEDIUM-DUTY PASSENGER VEHICLES Adopted: May 2, 2008 and Title 13, California Code of Regulations, Section § 1961.1(a)(1)(B)

Global Warming Scores are selected from the table in 3(c) in the same section.

Smog score for Test Group VJLXT03.0HTT = 6 (SULEV30)

Environmental Performance Label

Jaguar Land Rover products for the 2027 Model Year will be fitted with labels which indicate the results obtained from the Federal Fuel Economy and Greenhouse Gas Emissions testing program in lieu of separate California labels.

Jaguar Land Rover Ltd hereby states that labels fitted to vehicles covered by this application comply with all relevant Federal specifications for Material, Color, and Label Format Requirements described in 40CFR Parts 85, 86 and 600, 49CFR Part 575, and related Manufacturer Guidance issued by the US Environmental Protection Agency and the National Highway Traffic Safety Administration.



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17.6. Vehicle weights

17.6.1. Curb weight:

5245 lb Defender 90 P300
5265 lb Defender 90 P400
5520 lb Defender 110 P300 5-seat
5615 lb Defender 110 P300 6-seat
5630 lb Defender 110 P300 7-seat
5520 lb Defender 110 P400 5-seat
5615 lb Defender 110 P400 6-seat
5630 lb Defender 110 P400 7-seat
5835 lb Defender 130 P300 7-seat
5850 lb Defender 130 P300 8-Seat
5890 lb Defender 130 P400 5-seat
5870 lb Defender 130 P400 7-seat
5965 lb Defender 130 P400 8-seat

17.6.2. Gross vehicle weight rating:

6545 lb Defender 90 P300
6545 lb Defender 90 P400
6975 lb Defender 110 P300 5-seat
7205 lb Defender 110 P300 6-seat
7205 lb Defender 110 P300 7-Seat
6975 lb Defender 110 P300 5-seat
7205 lb Defender 110 P300 6-seat
7205 lb Defender 110 P300 7-seat
7450 lb Defender 130 P300 7-seat
7450 lb Defender 130 P300 8-seat
7450 lb Defender 130 P400 5-seat
7450 lb Defender 130 P400 7-seat
7450 lb Defender 130 P400 8-seat

17.6.3. Equivalent Test Weight:

5500 lb Defender 90 P300
5500 lb Defender 90 P400
6000 lb Defender 110 P300 5-seat
6000 lb Defender 110 P300 6-seat
6000 lb Defender 110 P300 7-Seat
6000 lb Defender 110 P400 5-seat
6000 lb Defender 110 P400 6-seat
6000 lb Defender 110 P400 7-seat
6000 lb Defender 130 P300 7-seat
6000 lb Defender 130 P300 8-seat
6000 lb Defender 130 P400 5-seat
6000 lb Defender 130 P400 7-seat
6000 lb Defender 130 P400 8-seat

18. REVISION LOG

[illegible]