

Certification Summary Information Report

Manufacturer	Tesla, Inc.	Manufacturer Code	TSL
Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Certificate Number	PTSLV00.0L3S-007	CARB Executive Order #	--
Certificate Issue Date	11/08/2022	Certificate Revision Date	--
Certificate Effective Date	11/08/2022	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	10/30/2022 03:57:08 PM
Model Year	2023		

Test Group Information

CSI Type	New	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
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	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	PTSLEEVNNL3S	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	11/14/2022	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	--
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	PTSLV00.0L3S
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Battery Electric Vehicle - No OBD requirements		
Mfr Test Group Comments	Lithium-ion battery Tri-motor Model S carlines.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
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Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Tesla, Inc.	1 - Tesla Motors	59 - Model S Plaid (21" Wheels)	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	59 - Model S Plaid (21" Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	60 - Model S Plaid (19" Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	60 - Model S Plaid (19" Wheels)	Federal	All Wheel Drive	Automatic	1	No

Engine Description

Hybrid Type -- Engine Type -- Engine Block Arrangement -- Camless Valvetrain Indicator -- Number of Cylinders/Rotors --	Hybrid Description -- Mfr Engine Description -- Mfr Engine Block Arrangement Description -- Oil Viscosity/Classification -- Mechanically Variable Compression Ratio Indicator --
--	---

After Treatment Device(s) (ATD)

Mfr After Treatment Device (ATD) Comments -- Direct Ozone Reduction (DOR) Device -- Mfr Emission Control Device 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		--	--	--	--	--	--	--	--	--	--

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Electricity	MTSL10070679	MTSL10070680
Electricity	MTSL10070306	MTSL10070307

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
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	410	Battery Energy Capacity	256
Battery Specific Energy	186	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)	3		
Motor/Generator Type 1	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	250
Motor/Generator Type 2	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	250
Motor/Generator Type 3	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	250
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	2 carline (Plaid (21" Wheels), Plaid (19" Wheels)) is available for Model S Tri-motor vehicles. Plaid: Front - 250 kW; Rear - 250 kW * 2		

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Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle		
Manufacturer Test Vehicle Comments	This is a Model S Plaid with 21" wheels configuration. Individual HP is 250kW (Front); 250kW * 2 (Rear)		
Test #	MTSL10070308	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/02/2021	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2075	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2087	--
DT-EER (Drive Trace Energy Economy Rating)	0.8309	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.9051	--
MFR FE (Manufacturer Fuel Economy)	21.6123	155.9297252
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

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

Manufacturer Test Comments Internal Test results (CVS-75 UDDS Ambient) for MY2021 Model S Plaid (21" Wheels). AC wh/mi @ 50 % SOC: Bag1FE75 243.1 Bag2FE75 215.8 Bag3FE75 234.5 Bag4FE75 211.7

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 0	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	MTSL10070309	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/02/2021	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2075	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
DT-ASCR (Drive Trace Absolute Speed Change Rating)	9.2559	--
DT-EER (Drive Trace Energy Economy Rating)	2.2951	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	11.5236	--
MFR FE (Manufacturer Fuel Economy)	22.0986	152.4983483
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

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

Manufacturer Test Comments

Internal Test results (HWY 3) for MY2021 Model S Plaid (21" Wheels). The HFET result from the full discharge MCT is used for the 2-part and 5-part calculations. AC wh/mi: HFETFE 221.0

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	MTSL10070311	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/02/2021	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2075	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.5294	--
DT-EER (Drive Trace Energy Economy Rating)	-1.486	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.3751	--
MFR FE (Manufacturer Fuel Economy)	29.5852	113.9083055
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments

Internal Test results (US 06) for MY2021 Model S Plaid (21" Wheels). US 06 AC wh/mi @ 50% SOC: US06CityFE 295.9 US06HwyFE 274.5

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	MTSL10070312	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/02/2021	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2075	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3489	--
DT-EER (Drive Trace Energy Economy Rating)	1.1491	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.4783	--
MFR FE (Manufacturer Fuel Economy)	26.44	127.4583964
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments

Internal Test results (SC 03) for MY2021 Model S Plaid (21" Wheels). AC wh/mi @ 50% SOC: SC03FE95 264.4

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--																																										
Test #	MTSL10070306	Test Procedure	81 - Charge Depleting UDDS																																										
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																										
Test Date	06/02/2021	Fuel	Electricity																																										
Fuel Batch ID	--	Fuel Calibration Number	--																																										
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned																																										
Verify Test Lab ID	Tesla Kato																																												
E10 Evaporative Test Measurement Method	--																																												
Test Start Odometer Reading	2075	Odometer Units	M																																										
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																										
State of Charge Delta	--																																												
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																										
PHEV/EV Charge Depleting Test Information																																													
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	116.344																																										
Charge Depleting Range (Calculated miles)	459	Charge Depleting Range (Actual miles)	459																																										
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																										
Equivalent All Electric Range (miles)	459																																												
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																																										
Charge Depleting Bag/Phase																																													
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8	Nitrogen Oxide	0																																											
9	Non-methane organic gases	0																																											
10	Non-methane organic gases plus Nitrogen Oxides	999.999																																											
11	Particulate Matter	0																																											
12	System End State of Charge Watt-hours	99.287																																											
13	System Start State of Charge Watt-hours	0																																											
Manufacturer Test Comments	Internal Test results for MY2021 Model S Plaid (21" Wheels). Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 99287 wh (system gave error limited to 4 digits). MCT dc wh/mi is attached with EPA application. Added NMOG Test results.																																												

Certification Summary Information Report

Test Group		PTSLV00.0L3S			Evaporative/Refueling Family					--		
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 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--																																									
Test #	MTSL10070307	Test Procedure	84 - Charge Depleting Highway																																									
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																									
Test Date	06/02/2021	Fuel	Electricity																																									
Fuel Batch ID	--	Fuel Calibration Number	--																																									
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned																																									
Verify Test Lab ID	Tesla Kato																																											
E10 Evaporative Test Measurement Method	--																																											
Test Start Odometer Reading	2075	Odometer Units	M																																									
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																									
State of Charge Delta	--																																											
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																									
PHEV/EV Charge Depleting Test Information																																												
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	116.344																																									
Charge Depleting Range (Calculated miles)	443	Charge Depleting Range (Actual miles)	443																																									
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																									
Equivalent All Electric Range (miles)	443																																											
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Manufacturer Test Comments	Internal Test results for MY2021 Model S Plaid (21" Wheels). Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC - 99287 wh (System error limited to 4 digits). MCT dc wh/mi is attached with application.																																											

Certification Summary Information Report

Test Group		PTSLV00.0L3S			Evaporative/Refueling Family					--		
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 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	MTSL10070310	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/02/2021	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2075	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	109.602
Charge Depleting Range (Calculated miles)	290	Charge Depleting Range (Actual miles)	290
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--
Equivalent All Electric Range (miles)	290		
Number of Charge Depleting Bags/Phases Conducted	39	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Carbon Monoxide	0	
2	Carbon dioxide	0	
3	Carbon-Related Exhaust Emissions	0	
4	Drive Trace Absolute Speed Change Rating	1.655	
5	Drive Trace Energy Economy Rating	1.1808	
6	Drive Trace Inertia Work Ratio Rating	3.0119	
7	Manufacturer Fuel Economy	32.2399	
8	Nitrogen Oxide	0	
9	Non-methane organic gases	0	
10	Non-methane organic gases plus Nitrogen Oxides	999.999	
11	Particulate Matter	0	
12	System End State of Charge Watt-hours	93.534	
13	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Manufacturer Test Comments	Internal Test results(Cold UDDS) for Model S Plaid (21" Wheels). END SOC is 93534 wh (System error limited to 4 digits) for full discharge. Tesla did not use external current measurement after the full cold discharge test, since AC energy is not used in any part of the 5-cycle consumption calculation. The stated recharge energy is an estimate using the DC energy from the cold discharge test and the round trip energy efficiency from the full discharge MCT. AC wh/mi: Bag1FE20 420.7 Bag2FE20 412.1 Bag3FE20 376.8 Bag4FE20 381.6		

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Test Group	PTSLV00.0L3S		Evaporative/Refueling Family	--						
Emission Data Vehicle Information										
Vehicle ID / Configuration	ST321-433418 / 0		Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	MTSLV00.0L3S		Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2021									
Vehicle Model										
Represented Test Vehicle Make	Tesla		Represented Test Vehicle Model	Model S Plaid (19" Wheels)						
Leak Family Details										
Leak Family Identifier	--		Leak Family Name	--						
Drive Sources and Fuel System Details										
<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </table>					Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel								
1	Electric Motor	Electricity								
Hybrid Indicator	No		Multiple Fuel Combustion	--						
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	Yes						
Fuel Cell Indicator	No		Rechargeable Energy Storage System, if 'Other'	--						
Rechargeable Energy Storage System	Battery(s)									
Off-board charge Capable Indicator	Yes									
Odometer Correction -- Initial	1		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	L2S		Rated Horsepower	1006						
Displacement (liters)	0.001									
Air Aspiration Method	Naturally Aspirated		Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--		Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--		Drive Mode While Testing	4-Wheel Drive						
Shift Indicator Light Usage	Not equipped		Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4765		Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	5657		N/V Ratio	90.3						
Axle Ratio	7.56									
Transmission Type	Direct Drive		# of Transmission Gears	1						
Transmission Lockup	No		Creep Gear	No						
Dynamometer Coefficients:										
Target Coefficients			Set Coefficients							
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients						
City/Highway/Evap	29.64	0.6164	0.01	11.4						
Emission Control Device Comments										
No emissions control Device - Pure Electric Vehicle										

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Model S Plaid with 19" wheels configuration. Individual HP is 250kW (Front); 250kW * 2 (Rear)		

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--																																										
Test #	MTSL10070679	Test Procedure	81 - Charge Depleting UDDS																																										
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																										
Test Date	07/02/2021	Fuel	Electricity																																										
Fuel Batch ID	--	Fuel Calibration Number	--																																										
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned																																										
Verify Test Lab ID	Tesla Kato																																												
E10 Evaporative Test Measurement Method	--																																												
Test Start Odometer Reading	2278	Odometer Units	M																																										
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																										
State of Charge Delta	--																																												
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																										
PHEV/EV Charge Depleting Test Information																																													
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	115.457																																										
Charge Depleting Range (Calculated miles)	529	Charge Depleting Range (Actual miles)	529																																										
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																										
Equivalent All Electric Range (miles)	529																																												
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																																										
Charge Depleting Bag/Phase																																													
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Manufacturer Test Comments	Internal Test results for MY2021 Model S Plaid (19" Wheels). Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 99371 wh (system gave error limited to 4 digits). MCT dc wh/mi is attached with EPA application. Added NMOG Test results.																																												

Certification Summary Information Report

Test Group		PTSLV00.0L3S			Evaporative/Refueling Family					--		
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 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	PTSLV00.0L3S	Evaporative/Refueling Family	--																																										
Test #	MTSL10070680	Test Procedure	84 - Charge Depleting Highway																																										
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																										
Test Date	07/02/2021	Fuel	Electricity																																										
Fuel Batch ID	--	Fuel Calibration Number	--																																										
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned																																										
Verify Test Lab ID	Tesla Kato																																												
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Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																										
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Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	115.457																																										
Charge Depleting Range (Calculated miles)	497	Charge Depleting Range (Actual miles)	497																																										
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																										
Equivalent All Electric Range (miles)	497																																												
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--																																										
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Certification Summary Information Report

Test Group		PTSLV00.0L3S			Evaporative/Refueling Family					--		
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 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
Fuel Properties												

Certification Summary Information Report

Test Group		PTSLV00.0L3S			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
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	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
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	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
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	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		PTSLV00.0L3S			Evaporative/Refueling Family			--	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o 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	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
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	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o 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	0

Certification Summary Information Report

Test Group		PTSLV00.0L3S	Evaporative/Refueling Family		--
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		METHANOL	CH3OH - Methanol	
CO	Carbon Monoxide		N2O	Nitrous Oxide	
CO2	Carbon dioxide		SPITBACK	Spitback Hydrocarbon in grams	
CREE	Carbon-Related Exhaust Emissions		AMP-HRS	Integrated Amp-hours	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		START-SOC	System Start State of Charge Watt-hours	
NOX	Nitrogen Oxide		END-SOC	System End State of Charge Watt-hours	
PM	Particulate Matter		ACT-DISTANCE	Actual Distance Driven (miles)	
PM-COMP	SFTP Composite Particulate Matter		AS-VOLT	Average System Voltage	
HC-NM	Non-methane Hydrocarbon		CO2 BAG 1	Bag 1 Carbon Dioxide	
OMHCE	Organic material Hydrocarbon Equivalent		CO2 BAG 2	Bag 2 Carbon Dioxide	
OMNMHCE	Organic material non-methane HC equivalent		CO2 BAG 3	Bag 3 Carbon Dioxide	
NMOG	Non-methane organic gases		CO2 BAG 4	Bag 4 Carbon Dioxide	
HCHO	Formaldehyde		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
H3C2HO	Acetaldehyde		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		DT-ASCR	Drive Trace Absolute Speed Change Rating	
CO-COMP	SFTP Composite Carbon Monoxide		DT-EER	Drive Trace Energy Economy Rating	
ETHANOL	C2H5OH - Ethanol		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
FE BAG 1	Bag 1 Fuel Economy		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
FE BAG 2	Bag 2 Fuel Economy		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
FE BAG 3	Bag 3 Fuel Economy		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
FE BAG 4	Bag 4 Fuel Economy		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
MFR FE	Manufacturer Fuel Economy		LEAK-DIA	Effective Leak Diameter (inches)	
HC	Hydrocarbon for Running Loss and ORVR		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
METHANE	CH4 - Methane		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		L3ULEV340	California LEV-III ULEV340	
B2	Federal Tier 2 Bin 2		L3ULEV250	California LEV-III ULEV250	
B3	Federal Tier 2 Bin 3		L3ULEV200	California LEV-III ULEV200	
B4	Federal Tier 2 Bin 4		L3SULEV170	California LEV-III SULEV170	
B5	Federal Tier 2 Bin 5		L3SULEV150	California LEV-III SULEV150	

Certification Summary Information Report

Test Group		PTSLV00.0L3S	Evaporative/Refueling Family		--
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
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		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

Certification Summary Information Report

Test Group		PTSLV00.0L3S	Evaporative/Refueling Family		--
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	