

Certification Summary Information Report

Test Group	HTSLV00.0L2S		Evaporative/Refueling Family		--					
Models Covered by this Certificate										
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup			
Tesla Motors Inc	1 - Tesla Motors	64 - Model S P90D	Federal	All Wheel Drive	Automatic	1	No			
Tesla Motors Inc	1 - Tesla Motors	65 - Model S P100D	Federal	All Wheel Drive	Automatic	1	No			
Tesla Motors Inc	1 - Tesla Motors	61 - Model S 60D	Federal	All Wheel Drive	Automatic	1	No			
Tesla Motors Inc	1 - Tesla Motors	62 - Model S 75D	Federal	All Wheel Drive	Automatic	1	No			
Tesla Motors Inc	1 - Tesla Motors	63 - Model S 90D	Federal	All Wheel Drive	Automatic	1	No			
Engine Description										
Hybrid Type	--		Hybrid Description		--					
Engine Type	--		Mfr Engine Description		--					
Engine Block Arrangement	--		Mfr Engine Block Arrangement Description		--					
Camless Valvetrain Indicator	--		Oil Viscosity/Classification		--					
Number of Cylinders/Rotors	--									
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	GTSL10040237		GTSL10040259							
Electricity	GTSL10040260		GTSL10040261							
Electricity	GTSL10044632		GTSL10044633							
Electricity	GTSL10041063		GTSL10041064							
Electricity	GTSL10044572		GTSL10044573							

Certification Summary Information Report

Test Group	HTSLV00.0L2S	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	400	Battery Energy Capacity	245
Battery Specific Energy	170	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)	2		
Motor/Generator Type 1	AC Induction	Rated Motor/Generator Power	375
Motor/Generator Type 2	AC Induction	Rated Motor/Generator Power	193
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Three battery variants (60D,75D 90D) is available for 2017 MY Dual Motor Model S vehicles.		

Certification Summary Information Report

Test Group	HTSLV00.0L2S		Evaporative/Refueling Family	--							
Emission Data Vehicle Information											
Vehicle ID / Configuration	DP316-L2S / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	GTSLV00.0L2S		Original Evaporative/Refueling Family	--							
Original Test Vehicle Model Year	2016										
Vehicle Model											
Represented Test Vehicle Make	Tesla Model S		Represented Test Vehicle Model	P90D							
Leak Family Details											
Leak Family Identifier	--		Leak Family Name	--							
Drive Sources and Fuel System Details											
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </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 Factor	1							
Odometer Correction -- Initial	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	376							
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)	4917		Equivalent Test Weight (pounds)	5250							
GVWR (lbs)	5874		N/V Ratio	9.7							
Axle Ratio	9.34										
Transmission Type	Direct Drive		# of Transmission Gears	1							
Transmission Lockup	No		Creeper Gear	No							
Dynamometer Coefficients:											
Target Coefficients			Set Coefficients								
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients				
City/Highway/Evap	41.51	0.2226	0.01403	-7.5	-0.0815	0.0146	11.7				
Emission Control Device Comments						No emissions control Device - Pure Electric Vehicle					

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Performance configuration with 90kWh Battery - MY2016 Running Change to include new tires, transmission fluid and new front fascia. Individual HP is 193kW Front / 375 KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10040260	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/15/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	655	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	96.65
Charge Depleting Range (Calculated miles)	356.2	Charge Depleting Range (Actual miles)	356.2
Equivalent All Electric Range (miles)	356.2		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	356.2	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	23.47	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Test Result for MY2016 P90D- Refresh - UDDS		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10040261	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/15/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	800	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	96.46
Charge Depleting Range (Calculated miles)	388.51	Charge Depleting Range (Actual miles)	388.51
Equivalent All Electric Range (miles)	388.51		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	381.84	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	21.67	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Testing result for MY2016 P90D-Refresh - HWFET		

Certification Summary Information Report

Test Group	HTSLV00.0L2S		Evaporative/Refueling Family	--							
Emission Data Vehicle Information											
Vehicle ID / Configuration	DP416-L2S / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	GTSLV00.0L2S		Original Evaporative/Refueling Family	--							
Original Test Vehicle Model Year	2016										
Vehicle Model											
Represented Test Vehicle Make	Tesla Model S		Represented Test Vehicle Model	P100D							
Leak Family Details											
Leak Family Identifier	--		Leak Family Name	--							
Drive Sources and Fuel System Details											
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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 Factor	1							
Odometer Correction -- Initial	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	376							
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)	5062		Equivalent Test Weight (pounds)	5250							
GVWR (lbs)	6043		N/V Ratio	9.7							
Axle Ratio	9.34										
Transmission Type	Direct Drive		# of Transmission Gears	1							
Transmission Lockup	No		Creeper Gear	No							
Dynamometer Coefficients:											
Target Coefficients			Set Coefficients								
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients				
City/Highway/Evap	41.35	0.267	0.0137	-8.1	-0.0329	0.01383	11.9				
Emission Control Device Comments						No emissions control Device - Pure Electric Vehicle					

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Performance configuration with 10kWh Battery pack Individual HP is 193kW Front / 375 KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10044572	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/15/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	655	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	111.47
Charge Depleting Range (Calculated miles)	414.45	Charge Depleting Range (Actual miles)	414.45
Equivalent All Electric Range (miles)	414.45		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	414.45	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	23.69	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Test Result for MY2016 P100D - UDDS		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10044573	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/17/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	1000	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	111.88
Charge Depleting Range (Calculated miles)	469.99	Charge Depleting Range (Actual miles)	469.99
Equivalent All Electric Range (miles)	469.99		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	469.99	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	21	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Testing result for MY2016 P100D- HWFET		

Certification Summary Information Report

Test Group	HTSLV00.0L2S		Evaporative/Refueling Family	--		
Emission Data Vehicle Information						
Vehicle ID / Configuration	DS116-L2S / 0		Manufacturer Vehicle Configuration Number	0		
Original Test Group Name	GTSLV00.0L2S		Original Evaporative/Refueling Family	--		
Original Test Vehicle Model Year	2016					
Vehicle Model						
Represented Test Vehicle Make	Tesla Model S		Represented Test Vehicle Model	60D		
Leak Family Details						
Leak Family Identifier	--		Leak Family Name	--		
Drive Sources and Fuel System Details						
	Drive Source and Fuel#		Drive Source	Fuel		
	1		Electric Motor	Electricity		
Hybrid Indicator	No					
Multiple Fuel Storage	--		Multiple Fuel Combustion	--		
Fuel Cell Indicator	No		Rechargeable Energy Storage System Indicator	Yes		
Rechargeable Energy Storage System	Battery(s)		Rechargeable Energy Storage System, if 'Other'	--		
Off-board charge Capable Indicator	Yes					
Odometer Correction -- Initial	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	376		
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)	4723		Equivalent Test Weight (pounds)	5000		
GVWR (lbs)	5820		N/V Ratio	9.7		
Axle Ratio	9.34					
Transmission Type	Direct Drive		# of Transmission Gears	1		
Transmission Lockup	No		Creeper Gear	No		
Dynamometer Coefficients:						
	Target Coefficients			Set Coefficients		
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)
City/Highway/Evap	37.37	0.1842	0.01508	-1.5	0.01177	0.01559
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients					
	11.2					
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle					

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration with firmware limited 75kWh Battery pack - MY2016 Running Change Individual HP is 193kW Front / 193KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10044632	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	08/10/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	655	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	73.45
Charge Depleting Range (Calculated miles)	299.57	Charge Depleting Range (Actual miles)	299.57
Equivalent All Electric Range (miles)	299.57		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	299.57	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	21.14	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	MY2016 60D-UDDS - physical RETEST as per EPA's direction		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10044633	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	08/12/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	655	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	71.68
Charge Depleting Range (Calculated miles)	307.52	Charge Depleting Range (Actual miles)	307.52
Equivalent All Electric Range (miles)	307.52		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	307.52	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	20.17	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Test Result for MY2016 60D-HWFET - RETEST AS Per EPA direction		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	DS216-L2S / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	GTSLV00.0L2S	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2016								
Vehicle Model									
Represented Test Vehicle Make	Tesla Model S	Represented Test Vehicle Model	75D						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
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Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	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	376						
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)	4723	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	5820	N/V Ratio	9.7						
Axle Ratio	9.34								
Transmission Type	Direct Drive	# of Transmission Gears	1						
Transmission Lockup	No	Creeper Gear	No						
Dynamometer Coefficients:									
Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients		
City/Highway/Evap	37.37	0.1842	0.01508	-1.5	0.01177	0.01559	11.2		
Emission Control Device Comments				No emissions control Device - Pure Electric Vehicle					

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration with 75kWh Battery pack - MY2016 Running Change Individual HP is 193kW Front / 193KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10041063	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/15/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	655	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	84.48
Charge Depleting Range (Calculated miles)	345.5	Charge Depleting Range (Actual miles)	345.5
Equivalent All Electric Range (miles)	345.5		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	345.5	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	21.05	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Test Result for MY2016 75D-UDDS		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10041064	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/15/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	800	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	84.65
Charge Depleting Range (Calculated miles)	358.49	Charge Depleting Range (Actual miles)	358.49
Equivalent All Electric Range (miles)	358.49		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	358.49	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	20.5	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Testing result for MY2016 75D - HWFET		

Certification Summary Information Report

Test Group	HTSLV00.0L2S		Evaporative/Refueling Family	--							
Emission Data Vehicle Information											
Vehicle ID / Configuration	DS316-L2S / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	GTSLV00.0L2S		Original Evaporative/Refueling Family	--							
Original Test Vehicle Model Year	2016										
Vehicle Model											
Represented Test Vehicle Make	Tesla Model S		Represented Test Vehicle Model	90D							
Leak Family Details											
Leak Family Identifier	--		Leak Family Name	--							
Drive Sources and Fuel System Details											
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </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 Factor	1							
Odometer Correction -- Initial	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	376							
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)	4811		Equivalent Test Weight (pounds)	5000							
GVWR (lbs)	5820		N/V Ratio	9.7							
Axle Ratio	9.34										
Transmission Type	Direct Drive		# of Transmission Gears	1							
Transmission Lockup	No		Creeper Gear	No							
Dynamometer Coefficients:											
Target Coefficients			Set Coefficients								
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients				
City/Highway/Evap	39.24	0.1493	0.01514	-3.17	-0.0049	0.01453	11.3				
Emission Control Device Comments		No emissions control Device - Pure Electric Vehicle									

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration with 90kWh vehicle - MY2016 Running Change to include new tires, transmission fluid and new front fascia Individual HP is 193kW Front / 193KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10040237	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/11/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	566	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	96.08
Charge Depleting Range (Calculated miles)	384	Charge Depleting Range (Actual miles)	384
Equivalent All Electric Range (miles)	384		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	384	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	21.8	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Internal test result for MY2016 90D- Refresh		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Test #	GTSL10040259	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/15/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	350	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 TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	96.66
Charge Depleting Range (Calculated miles)	405.2	Charge Depleting Range (Actual miles)	405.2
Equivalent All Electric Range (miles)	405.2		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	405.2	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	20.8	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	Internal test result for MY2016 90D- Refresh		

Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Fuel Properties			

Certification Summary Information Report

Test Group	HTSLV00.0L2S	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	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	--	--	--	--	--	1	--	0
150,000 miles	CREE	--	--	--	--	--	1	--	0

Certification Summary Information Report

Test Group	HTSLV00.0L2S	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 gas (California)	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	HTSLV00.0L2S	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	HTSLV00.0L2S	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	