

Certification Summary Information Report

Test Group		KTSLV00.0L13		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, Inc.	1 - Tesla Motors	82 - Model 3 Long Range	Federal	2-Wheel Drive, Rear	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	80 - Model 3 Standard Range Plus	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	81 - Model 3 Mid Range	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	81 - Model 3 Mid Range	Federal	2-Wheel Drive, Rear	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	82 - Model 3 Long Range	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	80 - Model 3 Standard Range Plus	Federal	2-Wheel Drive, Rear	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	--	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	JTSL10056529	JTSL10056535
Electricity	HTSL10049210	HTSL10049211
Electricity	KTSL10057410	KTSL10057411

Certification Summary Information Report

Test Group	KTSLV00.0L13	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	350	Battery Energy Capacity	230
Battery Specific Energy	150	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	Rear Wheels	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	211
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	2019MY Model 3 RWD Long Range, Mid Range and Standard Range Plus Carlines		

Certification Summary Information Report

Test Group	KTSLV00.0L13		Evaporative/Refueling Family	--							
Emission Data Vehicle Information											
Vehicle ID / Configuration	3R019-101926 / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	KTSLV00.0L13		Original Evaporative/Refueling Family	--							
Original Test Vehicle Model Year	2019										
Vehicle Model											
Represented Test Vehicle Make	Tesla Model 3		Represented Test Vehicle Model	Standard Range Plus RWD							
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	L13		Rated Horsepower	282							
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	2-Wheel Drive, Rear							
Shift Indicator Light Usage	Not equipped		Aged Emission Components	4,000 (mi)							
Curb Weight (lbs)	3624		Equivalent Test Weight (pounds)	3875							
GVWR (lbs)	4805		N/V Ratio	116.1							
Axle Ratio	9.04										
Transmission Type	Automatic		# 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	36.01	-0.1289	0.01667	-5.01	-0.2769	0.01603	9.5				
Emission Control Device Comments						No Emissions Control Device - Pure Electric					

Certification Summary Information Report

Test Group	KTSLV00.0L13	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is 2019 Model 3 - Standard Range Plus RWD. Rear Motor Power = 211 KW		

Certification Summary Information Report

Test Group	KTSLV00.0L13	Evaporative/Refueling Family	--
Test #	KTSL10057410	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	01/21/2019	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4028	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)	61.99
Charge Depleting Range (Calculated miles)	367.6	Charge Depleting Range (Actual miles)	367.6
Equivalent All Electric Range (miles)	367.6		
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)	367.6	
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	-1.708	
7	Drive Trace Energy Economy Rating	-0.872	
8	Drive Trace Inertia Work Ratio Rating	-2.498	
9	Integrated Amp-hours	155	
10	Manufacturer Fuel Economy	199.9	
11	Nitrogen Oxide	0	
12	Non-methane organic gases	0	
13	Non-methane organic gases plus Nitrogen Oxides	999.999	
14	Particulate Matter	0	
15	System End State of Charge Watt-hours	54.523	
16	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		KTSLV00.0L13		Evaporative/Refueling Family				--				
Manufacturer Test Comments		Internal Test results for MY2019 Model 3 Std Range Plus RWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 54523-Wh MCT dc wh/mi is attached with EPA application.Added NMOG Test results.										
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	KTSLV00.0L13	Evaporative/Refueling Family	--
Test #	KTSL10057411	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	01/22/2019	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2	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)	61.99
Charge Depleting Range (Calculated miles)	335.3	Charge Depleting Range (Actual miles)	335.3
Equivalent All Electric Range (miles)	335.3		
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)	335.3	
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	-2.14	
7	Drive Trace Energy Economy Rating	-0.356	
8	Drive Trace Inertia Work Ratio Rating	-2.961	
9	Integrated Amp-hours	155.41	
10	Manufacturer Fuel Economy	182.3	
11	Nitrogen Oxide	0	
12	Non-methane organic gases	0	
13	Non-methane organic gases plus Nitrogen Oxides	999.999	
14	Particulate Matter	0	
15	System End State of Charge Watt-hours	54.523	
16	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		KTSLV00.0L13		Evaporative/Refueling Family				--				
Manufacturer Test Comments		Internal Test results for MY2019 Model 3 Standard Range Plus RWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 54523-Wh MCT dc wh/mi is attached with EPA application. Added NMOG Test results.										
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	KTSLV00.0L13	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	3R118-101926 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	JTSLV00.0L13	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2018								
Vehicle Model									
Represented Test Vehicle Make	Tesla Model 3	Represented Test Vehicle Model	Mid Range RWD						
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 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	L13	Rated Horsepower	270						
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	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3837	Equivalent Test Weight (pounds)	4250						
GVWR (lbs)	4805	N/V Ratio	116.1						
Axle Ratio	9.04								
Transmission Type	Automatic	# 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	36.91	-0.113	0.01647	-5.21	-0.0543	0.0146	9.7		
Emission Control Device Comments				No Emissions Control Device - Pure Electric					

Certification Summary Information Report

Test Group	KTSLV00.0L13	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is 2018 Model 3 - Mid Range RWD. Rear Motor Power = 202KW		

Certification Summary Information Report

Test Group	KTSLV00.0L13	Evaporative/Refueling Family	--
Test #	JTSL10056529	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/19/2018	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2174	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)	72.376
Charge Depleting Range (Calculated miles)	391.6	Charge Depleting Range (Actual miles)	391.6
Equivalent All Electric Range (miles)	361.6		
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)	391.6	
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	0.274	
7	Drive Trace Energy Economy Rating	-0.511	
8	Drive Trace Inertia Work Ratio Rating	0.7	
9	Integrated Amp-hours	182.107	
10	Manufacturer Fuel Economy	182.4	
11	Nitrogen Oxide	0	
12	Non-methane organic gases	0	
13	Non-methane organic gases plus Nitrogen Oxides	999.999	
14	Particulate Matter	0	
15	System End State of Charge Watt-hours	63.81	
16	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		KTSLV00.0L13		Evaporative/Refueling Family				--				
Manufacturer Test Comments		Internal Test results for MY2018 Model 3 Mid Range RWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 63810-Wh MCT dc wh/mi is attached with EPA application.Added NMOG Test results.										
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	KTSLV00.0L13	Evaporative/Refueling Family	--
Test #	JTSL10056535	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/19/2018	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2	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)	72.376
Charge Depleting Range (Calculated miles)	358.9	Charge Depleting Range (Actual miles)	358.9
Equivalent All Electric Range (miles)	358.9		
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)	358.9	
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	2.963	
7	Drive Trace Energy Economy Rating	2.963	
8	Drive Trace Inertia Work Ratio Rating	3.84	
9	Integrated Amp-hours	182.107	
10	Manufacturer Fuel Economy	167.7	
11	Nitrogen Oxide	0	
12	Non-methane organic gases	0.056	
13	Non-methane organic gases plus Nitrogen Oxides	999.999	
14	Particulate Matter	0	
15	System End State of Charge Watt-hours	63.81	
16	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		KTSLV00.0L13		Evaporative/Refueling Family				--				
Manufacturer Test Comments		Internal Test results for MY2018 Model 3 Mid Range RWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 63810-Wh MCT dc wh/mi is attached with EPA application.Added NMOG Test results.										
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	KTSLV00.0L13		Evaporative/Refueling Family	--							
Emission Data Vehicle Information											
Vehicle ID / Configuration	3R217-R00012 / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	HTSLV00.0L13		Original Evaporative/Refueling Family	--							
Original Test Vehicle Model Year	2017										
Vehicle Model											
Represented Test Vehicle Make	Tesla Model 3		Represented Test Vehicle Model	Long Range							
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	L13		Rated Horsepower	258							
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	2-Wheel Drive, Rear							
Shift Indicator Light Usage	Not equipped		Aged Emission Components	4,000 (mi)							
Curb Weight (lbs)	3837		Equivalent Test Weight (pounds)	4250							
GVWR (lbs)	--		N/V Ratio	116.1							
Axle Ratio	9										
Transmission Type	Automatic		# 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	38.51	-0.0811	0.0161	-12.12	0.2046	0.0115	10				
Emission Control Device Comments		No Emissions Control Device - Pure Electric									

Certification Summary Information Report

Test Group	KTSLV00.0L13	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is 2017 Model 3 - Long Range model with RWD Motor.		

Certification Summary Information Report

Test Group	KTSLV00.0L13	Evaporative/Refueling Family	--
Test #	HTSL10049210	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/16/2017	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5595	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)	89.406
Charge Depleting Range (Calculated miles)	495.11	Charge Depleting Range (Actual miles)	495.11
Equivalent All Electric Range (miles)	495.11		
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)	495.11	
2	Average System Voltage	351	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	-0.65	
7	Drive Trace Energy Economy Rating	-0.86	
8	Drive Trace Inertia Work Ratio Rating	-1.12	
9	Integrated Amp-hours	222.81	
10	Manufacturer Fuel Economy	186.628	
11	Nitrogen Oxide	0	
12	Non-methane organic gases	0	
13	Non-methane organic gases plus Nitrogen Oxides	999.999	
14	Particulate Matter	0	
15	System End State of Charge Watt-hours	0	
16	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		KTSLV00.0L13		Evaporative/Refueling Family				--				
Manufacturer Test Comments		Internal Test results for MY2017 Model 3 Long Range. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 78270 wh. MCT dc wh/mi is attached with EPA application.Added NMOG Test results.										
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	KTSLV00.0L13	Evaporative/Refueling Family	--
Test #	HTSL10049211	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/16/2017	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5595	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)	89.41
Charge Depleting Range (Calculated miles)	454.64	Charge Depleting Range (Actual miles)	454.64
Equivalent All Electric Range (miles)	454.64		
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)	454.64	
2	Average System Voltage	351	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	-1.06	
7	Drive Trace Energy Economy Rating	-0.6	
8	Drive Trace Inertia Work Ratio Rating	-1.3	
9	Integrated Amp-hours	221.81	
10	Manufacturer Fuel Economy	171.431	
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 results for MY2017 Model 3 Long Range. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC - 78270 wh. MCT dc wh/mi is attached with application.		

Certification Summary Information Report

Test Group		KTSLV00.0L13		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	KTSLV00.0L13	Evaporative/Refueling Family	--
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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 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	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 0
Fuel	Electricity	Test Procedure	Charge Depleting UDSS

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		KTSLV00.0L13			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		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		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	KTSLV00.0L13	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	KTSLV00.0L13	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	KTSLV00.0L13	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	