

Certification Summary Information Report

Manufacturer	American Honda Motor Co., Inc.	Manufacturer Code	HNX
Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Certificate Number	KHNXV01.5D92-036	CARB Executive Order #	--
Certificate Issue Date	10/26/2018	Certificate Revision Date	--
Certificate Effective Date	10/26/2018	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	09/27/2018 09:35:22 PM
Model Year	2019		

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test Group Information			
CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		
Drive Sources and Fuel(s)			
Drive Source #1:	Combustion Engine		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Gasoline	Multipoint/sequential fuel injection	No
Drive Source #2:	Electric Motor		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Electricity	--	--
Hybrid Indicator	Yes		
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	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	KHNXHHGNDBC	Durability Group Equivalency Factor	1.2
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	01/01/2019	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	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	KHNXV01.5CL2
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	Litmus Judgment has been confirmed by 5 cycle tests with E10 fuel. EPA City Litmus Value: 43.4, EPA City Litmus Threshold: 42.7, EPA Highway Litmus Value: 40.4, EPA Highway Litmus Threshold: 40.3		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	KHNV01.5D92		Evaporative/Refueling Family	KHNR0116VSA			
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	09/26/2018 11:25:55 PM				
Integrated ORVR?	No	Fuel(s)	Electricity, Gasoline				
Multiple Fuel Storage	Fuels Stored Separately						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	steel				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	116	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	--						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	No	Applicability of Evaporative Canister Bleed Test	--				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
KHNR0116VSA-C00	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
American Honda Motor Co., Inc.	1 - Honda	60 - Clarity	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	60 - Clarity	Federal	2-Wheel Drive, Front	Continuously Variable	1	Yes
Engine Description							
Hybrid Type	IC Engine/Electric Motor		Hybrid Description	--			
Engine Type	4-Stroke Spark Ignition		Mfr Engine Description	--			
Engine Block Arrangement	Inline		Mfr Engine Block Arrangement Description	--			
Camless Valvetrain Indicator	No		Oil Viscosity/Classification	0W-20			
Number of Cylinders/Rotors	4		Mechanically Variable Compression Ratio Indicator	N			

Certification Summary Information Report

Test Group	KHNXV01.5D92				Evaporative/Refueling Family	KHNXR0116VSA					
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal			Substrate Material		Substrate Construction				
1	Three-way catalyst	Palladium + Rhodium			Ceramic		Monolith				
2	Three-way catalyst	Palladium + Rhodium			Ceramic		Monolith				
Mfr After Treatment Device (ATD) Comments											
--											
Direct Ozone Reduction (DOR) Device											
Not Equipped											
Mfr Emission Control Device Comments											
--											
Engine Configuration Number 1											
Engine Displacement (liters)											
1.5											
Engine Rated Horsepower											
103											
Number of Inlet Valves Per Cylinder											
2											
Number of Exhaust Valves Per Cylinder											
2											
Air Aspiration Method											
Naturally Aspirated											
Number of Air Aspiration Devices											
--											
Air Aspiration Device Configuration											
--											
Charge Air Cooler Type											
--											
Air Aspiration Drive Method(s)											
Mechanical											
Cylinder Deactivation											
No											
Cylinder Deactivation Description											
--											
Variable Valve Timing											
Yes											
Variable Valve Timing System Description											
Variable valve Timing (VTC) and lift Electronic Control (VTEC) system is applied.											
Variable Valve Lift?											
Yes											
Variable Valve Lift System Description											
Variable valve Timing (VTC) and lift Electronic Control (VTEC) system is applied.											
Number of Knock Sensors											
1											
Number of Air/Fuel Sensors											
2											
Air/Fuel Sensor # 1 Type											
Heated air fuel											
Air/Fuel Sensor # 1 Description											
--											
Air/Fuel Sensor # 2 Type											
Heated oxygen											
Air/Fuel Sensor # 2 Description											
--											
Mfr Air/Fuel Sensor Comments											
--											
Exhaust Gas Recirculation											
Yes											
Cooled Exhaust Gas Recirculation											
Yes											
EGR Type											
Electronic/Electric											
Exhaust Gas Recirculation Description if 'Other'											
--											
Closed Loop Air Injection System											
No											
Air Injection Type											
Not Applicable											
Air Injection Type if 'Other'											
--											
Mfr Engine Configuration 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		JHNX10048851	JHNX10048853	JHNX10048854	JHNX10048855	JHNX10048852	--	--	--	--	--
Gasoline		JHNX10048851	JHNX10048853	JHNX10048854	JHNX10048855	JHNX10048852	53.9	228.2	51.7	286.1	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Electricity	JHNX10048851	JHNX10048853	JHNX10048854
Gasoline	JHNX10048851	JHNX10048853	JHNX10048854
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Gasoline	JHNX10048911	JHNX10048919	
Electricity	JHNX10048911	JHNX10048919	
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	311	Battery Energy Capacity	54.6
Battery Specific Energy	141	Battery Charger Type	Both
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Front Wheels	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	AC PMSM	Rated Motor/Generator Power	135
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

Certification Summary Information Report

Test Group	KHNXV01.5D92		Evaporative/Refueling Family	KHNXR0116VSA																							
Emission Data Vehicle Information																											
Vehicle ID / Configuration	DJWJ1C / 0		Manufacturer Vehicle Configuration Number	0																							
Original Test Group Name	JHNXV01.5DH2		Original Evaporative/Refueling Family	JHNXR0116VSA																							
Original Test Vehicle Model Year	2018																										
Vehicle Model																											
Represented Test Vehicle Make	HONDA		Represented Test Vehicle Model	Clarity Plug-in Hybrid																							
Leak Family Details																											
Leak Family Identifier	C00		Leak Family Name	JHNXR0116VSA-C00																							
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>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>						Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity													
Drive Source and Fuel#	Drive Source	Fuel																									
1	Combustion Engine	Gasoline																									
2	Electric Motor	Electricity																									
Hybrid Indicator	Yes		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	0.993																							
Odometer Correction -- Initial	0																										
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor																										
Odometer Correction Units	Miles																										
Engine Code	JWJ1C1		Rated Horsepower	103																							
Displacement (liters)	1.5		Air Aspiration Method, if 'Other'																								
Air Aspiration Method	Naturally Aspirated		Air Aspiration Device Configuration	--																							
Number of Air Aspiration Devices	0		Drive Mode While Testing	2-Wheel Drive, Front																							
Charge Air Cooler Type	N/A		Aged Emission Components	4,000 (mi)																							
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	4250																							
Curb Weight (lbs)	4065		N/V Ratio	36.2																							
GVWR (lbs)	--																										
Axle Ratio	3.42		# of Transmission Gears	1																							
Transmission Type	Continuously Variable		Creeper Gear	No																							
Transmission Lockup	Yes																										
Dynamometer Coefficients:																											
<table border="1"> <thead> <tr> <th rowspan="2">Coefficient Category</th> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> </thead> <tbody> <tr> <td>City/Highway/Evap</td> <td>26.78</td> <td>0.3123</td> <td>0.01713</td> <td>8.63</td> <td>0.3165</td> <td>0.01552</td> <td>11.4</td> </tr> </tbody> </table>						Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	City/Highway/Evap	26.78	0.3123	0.01713	8.63	0.3165	0.01552	11.4
Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients																				
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)																					
City/Highway/Evap	26.78	0.3123	0.01713	8.63	0.3165	0.01552	11.4																				

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Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	MULTI MODE: ECON OFF. TIRE: 235/45R18 94V. PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. COOLING FAN USED FOR CD UDDS AND CD HWY: ROAD SPEED FAN WITH ENGINE HOOD CLOSED.		

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048911	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/01/2017	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4756	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV TEST INFO			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	14.601
Charge Depleting Range (Calculated miles)	72.265	Charge Depleting Range (Actual miles)	72.265
Equivalent All Electric Range (miles)	72.265		
Number of Charge Depleting Bags/Phases Conducted	12		
Charge Depleting Bag/Phase			

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	7.453	
2	Average System Voltage	297.36	
3	Bag 1 Carbon Dioxide	56.41	
4	Bag 1 Fuel Economy	154.263	
5	Bag 2 Carbon Dioxide	0	
6	Bag 2 Fuel Economy	0	
7	CH4 - Methane	0.00232	
8	Carbon Monoxide	0.115	
9	Carbon dioxide	56.41	
10	Carbon-Related Exhaust Emissions	56.23	
11	Drive Trace Absolute Speed Change Rating	-0.1013483	
12	Drive Trace Energy Economy Rating	-0.5375172	
13	Drive Trace Inertia Work Ratio Rating	-0.1981485	
14	Integrated Amp-hours	41.2	
15	Manufacturer Fuel Economy	0	
16	Nitrogen Oxide	0.0035	
17	Non-methane Hydrocarbon	0.01791	
18	Non-methane organic gas	0.01844	
19	Non-methane organic gases plus Nitrogen Oxides	999.999	
20	System End State of Charge Watt-hours	41.2	
21	System Start State of Charge Watt-hours	38.124	
22	Total Hydrocarbon	0.02009	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
23	Actual Distance Driven (miles)	7.452	
24	Average System Voltage	301.17	
25	Bag 1 Carbon Dioxide	0	
26	Bag 1 Fuel Economy	0	
27	Bag 2 Carbon Dioxide	0	
28	Bag 2 Fuel Economy	0	
29	CH4 - Methane	0	
30	Carbon Monoxide	0	
31	Carbon dioxide	0	
32	Carbon-Related Exhaust Emissions	0	
33	Drive Trace Absolute Speed Change Rating	-0.3023969	
34	Drive Trace Energy Economy Rating	-0.6561851	
35	Drive Trace Inertia Work Ratio Rating	-0.6766822	
36	Integrated Amp-hours	38.124	
37	Manufacturer Fuel Economy	0	
38	Nitrogen Oxide	0	
39	Non-methane Hydrocarbon	0	
40	Non-methane organic gas	0	
41	Non-methane organic gases plus Nitrogen Oxides	999.999	
42	System End State of Charge Watt-hours	38.124	
43	System Start State of Charge Watt-hours	33.723	
44	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	7.457	
46	Average System Voltage	313.64	
47	Bag 1 Carbon Dioxide	0	
48	Bag 1 Fuel Economy	0	
49	Bag 2 Carbon Dioxide	0	
50	Bag 2 Fuel Economy	0	
51	CH4 - Methane	0	
52	Carbon Monoxide	0	
53	Carbon dioxide	0	
54	Carbon-Related Exhaust Emissions	0	
55	Drive Trace Absolute Speed Change Rating	1.8105629	
56	Drive Trace Energy Economy Rating	1.3046928	
57	Drive Trace Inertia Work Ratio Rating	2.7718432	
58	Integrated Amp-hours	20.796	
59	Manufacturer Fuel Economy	0	
60	Nitrogen Oxide	0	
61	Non-methane Hydrocarbon	0	
62	Non-methane organic gas	0	
63	Non-methane organic gases plus Nitrogen Oxides	999.999	
64	System End State of Charge Watt-hours	20.796	
65	System Start State of Charge Watt-hours	16.568	
66	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
67	Actual Distance Driven (miles)	7.44	
68	Average System Voltage	325.865	
69	Bag 1 Carbon Dioxide	0	
70	Bag 1 Fuel Economy	0	
71	Bag 2 Carbon Dioxide	0	
72	Bag 2 Fuel Economy	0	
73	CH4 - Methane	0	
74	Carbon Monoxide	0	
75	Carbon dioxide	0	
76	Carbon-Related Exhaust Emissions	0	
77	Drive Trace Absolute Speed Change Rating	1.2159779	
78	Drive Trace Energy Economy Rating	0.109976	
79	Drive Trace Inertia Work Ratio Rating	1.6834664	
80	Integrated Amp-hours	12.409	
81	Manufacturer Fuel Economy	0	
82	Nitrogen Oxide	0	
83	Non-methane Hydrocarbon	0	
84	Non-methane organic gas	0	
85	Non-methane organic gases plus Nitrogen Oxides	999.999	
86	System End State of Charge Watt-hours	12.409	
87	System Start State of Charge Watt-hours	8.338	
88	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
89	Actual Distance Driven (miles)	7.451	
90	Average System Voltage	338.61	
91	Bag 1 Carbon Dioxide	0	
92	Bag 1 Fuel Economy	0	
93	Bag 2 Carbon Dioxide	0	
94	Bag 2 Fuel Economy	0	
95	CH4 - Methane	0.00124	
96	Carbon Monoxide	0.0728	
97	Carbon dioxide	0	
98	Carbon-Related Exhaust Emissions	0	
99	Drive Trace Absolute Speed Change Rating	-0.0422437	
100	Drive Trace Energy Economy Rating	-0.1527737	
101	Drive Trace Inertia Work Ratio Rating	-0.1344995	
102	Integrated Amp-hours	4.306	
103	Manufacturer Fuel Economy	165.9	
104	Nitrogen Oxide	0.0019	
105	Non-methane Hydrocarbon	0.00759	
106	Non-methane organic gas	0.00836	
107	Non-methane organic gases plus Nitrogen Oxides	999.999	
108	System End State of Charge Watt-hours	4.306	
109	System Start State of Charge Watt-hours	0	
110	Total Hydrocarbon	0.0088	

Charge Depleting Bag/Phase

Certification Summary Information Report

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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
111	Actual Distance Driven (miles)	7.44	
112	Average System Voltage	306.425	
113	Bag 1 Carbon Dioxide	0	
114	Bag 1 Fuel Economy	0	
115	Bag 2 Carbon Dioxide	0	
116	Bag 2 Fuel Economy	0	
117	CH4 - Methane	0	
118	Carbon Monoxide	0	
119	Carbon dioxide	0	
120	Carbon-Related Exhaust Emissions	0	
121	Drive Trace Absolute Speed Change Rating	0.940073	
122	Drive Trace Energy Economy Rating	0.1399355	
123	Drive Trace Inertia Work Ratio Rating	1.289803	
124	Integrated Amp-hours	29.42	
125	Manufacturer Fuel Economy	0	
126	Nitrogen Oxide	0	
127	Non-methane Hydrocarbon	0	
128	Non-methane organic gas	0	
129	Non-methane organic gases plus Nitrogen Oxides	999.999	
130	System End State of Charge Watt-hours	29.42	
131	System Start State of Charge Watt-hours	25.079	
132	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
133	Actual Distance Driven (miles)	7.457	
134	Average System Voltage	331.815	
135	Bag 1 Carbon Dioxide	0	
136	Bag 1 Fuel Economy	0	
137	Bag 2 Carbon Dioxide	0	
138	Bag 2 Fuel Economy	0	
139	CH4 - Methane	0	
140	Carbon Monoxide	0	
141	Carbon dioxide	0	
142	Carbon-Related Exhaust Emissions	0	
143	Drive Trace Absolute Speed Change Rating	1.7729705	
144	Drive Trace Energy Economy Rating	0.5998233	
145	Drive Trace Inertia Work Ratio Rating	2.6519434	
146	Integrated Amp-hours	8.338	
147	Manufacturer Fuel Economy	0	
148	Nitrogen Oxide	0	
149	Non-methane Hydrocarbon	0	
150	Non-methane organic gas	0	
151	Non-methane organic gases plus Nitrogen Oxides	999.999	
152	System End State of Charge Watt-hours	8.338	
153	System Start State of Charge Watt-hours	4.306	
154	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
155	Actual Distance Driven (miles)	7.454	
156	Average System Voltage	295.46	
157	Bag 1 Carbon Dioxide	131.51	
158	Bag 1 Fuel Economy	65.676	
159	Bag 2 Carbon Dioxide	0	
160	Bag 2 Fuel Economy	0	
161	CH4 - Methane	0.00057	
162	Carbon Monoxide	0.0494	
163	Carbon dioxide	131.51	
164	Carbon-Related Exhaust Emissions	132.08	
165	Drive Trace Absolute Speed Change Rating	-0.3023967	
166	Drive Trace Energy Economy Rating	-0.656186	
167	Drive Trace Inertia Work Ratio Rating	-0.6766816	
168	Integrated Amp-hours	41.15	
169	Manufacturer Fuel Economy	0	
170	Nitrogen Oxide	0.0009	
171	Non-methane Hydrocarbon	0.00107	
172	Non-methane organic gas	0.00111	
173	Non-methane organic gases plus Nitrogen Oxides	999.999	
174	System End State of Charge Watt-hours	41.15	
175	System Start State of Charge Watt-hours	41.2	
176	Total Hydrocarbon	0.00166	

Charge Depleting Bag/Phase

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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
177	Actual Distance Driven (miles)	7.449	
178	Average System Voltage	304.14	
179	Bag 1 Carbon Dioxide	0	
180	Bag 1 Fuel Economy	0	
181	Bag 2 Carbon Dioxide	0	
182	Bag 2 Fuel Economy	0	
183	CH4 - Methane	0	
184	Carbon Monoxide	0	
185	Carbon dioxide	0	
186	Carbon-Related Exhaust Emissions	0	
187	Drive Trace Absolute Speed Change Rating	-0.101349	
188	Drive Trace Energy Economy Rating	-0.537517	
189	Drive Trace Inertia Work Ratio Rating	-0.19815	
190	Integrated Amp-hours	33.723	
191	Manufacturer Fuel Economy	0	
192	Nitrogen Oxide	0	
193	Non-methane Hydrocarbon	0	
194	Non-methane organic gas	0	
195	Non-methane organic gases plus Nitrogen Oxides	999.999	
196	System End State of Charge Watt-hours	33.723	
197	System Start State of Charge Watt-hours	29.42	
198	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNV01.5D92	Evaporative/Refueling Family	KHNV0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
199	Actual Distance Driven (miles)	7.456	
200	Average System Voltage	319.525	
201	Bag 1 Carbon Dioxide	0	
202	Bag 1 Fuel Economy	0	
203	Bag 2 Carbon Dioxide	0	
204	Bag 2 Fuel Economy	0	
205	CH4 - Methane	0	
206	Carbon Monoxide	0	
207	Carbon dioxide	0	
208	Carbon-Related Exhaust Emissions	0	
209	Drive Trace Absolute Speed Change Rating	0.3549215	
210	Drive Trace Energy Economy Rating	0.3036154	
211	Drive Trace Inertia Work Ratio Rating	0.6254272	
212	Integrated Amp-hours	16.568	
213	Manufacturer Fuel Economy	0	
214	Nitrogen Oxide	0	
215	Non-methane Hydrocarbon	0	
216	Non-methane organic gas	0	
217	Non-methane organic gases plus Nitrogen Oxides	999.999	
218	System End State of Charge Watt-hours	16.568	
219	System Start State of Charge Watt-hours	12.409	
220	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
221	Actual Distance Driven (miles)	7.459	
222	Average System Voltage	309.17	
223	Bag 1 Carbon Dioxide	0	
224	Bag 1 Fuel Economy	0	
225	Bag 2 Carbon Dioxide	0	
226	Bag 2 Fuel Economy	0	
227	CH4 - Methane	0	
228	Carbon Monoxide	0	
229	Carbon dioxide	0	
230	Carbon-Related Exhaust Emissions	0	
231	Drive Trace Absolute Speed Change Rating	0.8228067	
232	Drive Trace Energy Economy Rating	-0.1897921	
233	Drive Trace Inertia Work Ratio Rating	0.8207916	
234	Integrated Amp-hours	25.079	
235	Manufacturer Fuel Economy	0	
236	Nitrogen Oxide	0	
237	Non-methane Hydrocarbon	0	
238	Non-methane organic gas	0	
239	Non-methane organic gases plus Nitrogen Oxides	999.999	
240	System End State of Charge Watt-hours	25.079	
241	System Start State of Charge Watt-hours	20.796	
242	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
243	Actual Distance Driven (miles)	7.453	
244	Average System Voltage	295.73	
245	Bag 1 Carbon Dioxide	136.39	
246	Bag 1 Fuel Economy	63.745	
247	Bag 2 Carbon Dioxide	0	
248	Bag 2 Fuel Economy	0	
249	CH4 - Methane	0.0005	
250	Carbon Monoxide	0.0454	
251	Carbon dioxide	136.39	
252	Carbon-Related Exhaust Emissions	136.09	
253	Drive Trace Absolute Speed Change Rating	-0.0529926	
254	Drive Trace Energy Economy Rating	-0.3267682	
255	Drive Trace Inertia Work Ratio Rating	-0.1779705	
256	Integrated Amp-hours	41.01	
257	Manufacturer Fuel Economy	0	
258	Nitrogen Oxide	0.0011	
259	Non-methane Hydrocarbon	0.00139	
260	Non-methane organic gas	0.00143	
261	Non-methane organic gases plus Nitrogen Oxides	999.999	
262	System End State of Charge Watt-hours	41.01	
263	System Start State of Charge Watt-hours	41.15	
264	Total Hydrocarbon	0.00224	

Manufacturer Test Comments

NMOG/NMHC FACTOR(1.101) IS APPLIED. MFR 4K TEST (CD UDDS). TRANSITION CYCLE IS PHASE #10. ALL ELECTRIC RANGE: 71.21 mile. CHARGE TIME: 7585 SEC.

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family					KHNXR0116VSA		
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	120,000 miles	Federal Tier 3 Bin 20	CREE	56	--	--	--	9.51	--	66	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	132	--	--	--	9.51	--	142	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	136	--	--	--	9.51	--	146	--	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048919	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/02/2017	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4846	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV TEST INFO			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	14.485
Charge Depleting Range (Calculated miles)	61.422	Charge Depleting Range (Actual miles)	61.422
Equivalent All Electric Range (miles)	61.422		
Number of Charge Depleting Bags/Phases Conducted	8		
Charge Depleting Bag/Phase			

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	10.264	
2	Average System Voltage	317.03	
3	Bag 1 Carbon Dioxide	0	
4	Bag 1 Fuel Economy	0	
5	Bag 2 Carbon Dioxide	0	
6	Bag 2 Fuel Economy	0	
7	CH4 - Methane	0	
8	Carbon Monoxide	0	
9	Carbon dioxide	0	
10	Carbon-Related Exhaust Emissions	0	
11	Drive Trace Absolute Speed Change Rating	7.8224801	
12	Drive Trace Energy Economy Rating	1.4647556	
13	Drive Trace Inertia Work Ratio Rating	9.32478	
14	Integrated Amp-hours	19.807	
15	Manufacturer Fuel Economy	0	
16	Nitrogen Oxide	0	
17	Non-methane Hydrocarbon	0	
18	Non-methane organic gas	0	
19	Non-methane organic gases plus Nitrogen Oxides	999.999	
20	System End State of Charge Watt-hours	19.807	
21	System Start State of Charge Watt-hours	13.105	
22	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
23	Actual Distance Driven (miles)	10.254	
24	Average System Voltage	296.58	
25	Bag 1 Carbon Dioxide	140.65	
26	Bag 1 Fuel Economy	61.489	
27	Bag 2 Carbon Dioxide	0	
28	Bag 2 Fuel Economy	0	
29	CH4 - Methane	0.00024	
30	Carbon Monoxide	0.0524	
31	Carbon dioxide	140.65	
32	Carbon-Related Exhaust Emissions	141.08	
33	Drive Trace Absolute Speed Change Rating	6.9940326	
34	Drive Trace Energy Economy Rating	1.4587853	
35	Drive Trace Inertia Work Ratio Rating	8.5609609	
36	Integrated Amp-hours	40.875	
37	Manufacturer Fuel Economy	0	
38	Nitrogen Oxide	0	
39	Non-methane Hydrocarbon	0.00019	
40	Non-methane organic gas	0.0002	
41	Non-methane organic gases plus Nitrogen Oxides	999.999	
42	System End State of Charge Watt-hours	40.875	
43	System Start State of Charge Watt-hours	40.811	
44	Total Hydrocarbon	0.00042	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	10.276	
46	Average System Voltage	326.89	
47	Bag 1 Carbon Dioxide	0	
48	Bag 1 Fuel Economy	0	
49	Bag 2 Carbon Dioxide	0	
50	Bag 2 Fuel Economy	0	
51	CH4 - Methane	0	
52	Carbon Monoxide	0	
53	Carbon dioxide	0	
54	Carbon-Related Exhaust Emissions	0	
55	Drive Trace Absolute Speed Change Rating	8.4308039	
56	Drive Trace Energy Economy Rating	1.7765563	
57	Drive Trace Inertia Work Ratio Rating	10.4380818	
58	Integrated Amp-hours	13.105	
59	Manufacturer Fuel Economy	0	
60	Nitrogen Oxide	0	
61	Non-methane Hydrocarbon	0	
62	Non-methane organic gas	0	
63	Non-methane organic gases plus Nitrogen Oxides	999.999	
64	System End State of Charge Watt-hours	13.105	
65	System Start State of Charge Watt-hours	6.565	
66	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
67	Actual Distance Driven (miles)	10.272	
68	Average System Voltage	300.29	
69	Bag 1 Carbon Dioxide	7.79	
70	Bag 1 Fuel Economy	1067.71	
71	Bag 2 Carbon Dioxide	0	
72	Bag 2 Fuel Economy	0	
73	CH4 - Methane	0.0013	
74	Carbon Monoxide	0.0598	
75	Carbon dioxide	7.79	
76	Carbon-Related Exhaust Emissions	8.12	
77	Drive Trace Absolute Speed Change Rating	6.0876324	
78	Drive Trace Energy Economy Rating	1.2826028	
79	Drive Trace Inertia Work Ratio Rating	7.347695	
80	Integrated Amp-hours	40.501	
81	Manufacturer Fuel Economy	0	
82	Nitrogen Oxide	0.0024	
83	Non-methane Hydrocarbon	0.00852	
84	Non-methane organic gas	0.00877	
85	Non-methane organic gases plus Nitrogen Oxides	999.999	
86	System End State of Charge Watt-hours	40.501	
87	System Start State of Charge Watt-hours	33.64	
88	Total Hydrocarbon	0.00974	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
89	Actual Distance Driven (miles)	10.26	
90	Average System Voltage	297.12	
91	Bag 1 Carbon Dioxide	140.09	
92	Bag 1 Fuel Economy	61.928	
93	Bag 2 Carbon Dioxide	0	
94	Bag 2 Fuel Economy	0	
95	CH4 - Methane	0.0002	
96	Carbon Monoxide	0.0455	
97	Carbon dioxide	140.09	
98	Carbon-Related Exhaust Emissions	140.08	
99	Drive Trace Absolute Speed Change Rating	6.4974216	
100	Drive Trace Energy Economy Rating	1.242621	
101	Drive Trace Inertia Work Ratio Rating	8.1128367	
102	Integrated Amp-hours	40.811	
103	Manufacturer Fuel Economy	0	
104	Nitrogen Oxide	0.0015	
105	Non-methane Hydrocarbon	0.00014	
106	Non-methane organic gas	0.00015	
107	Non-methane organic gases plus Nitrogen Oxides	999.999	
108	System End State of Charge Watt-hours	40.811	
109	System Start State of Charge Watt-hours	40.501	
110	Total Hydrocarbon	0.00033	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
111	Actual Distance Driven (miles)	10.251	
112	Average System Voltage	304.94	
113	Bag 1 Carbon Dioxide	0	
114	Bag 1 Fuel Economy	0	
115	Bag 2 Carbon Dioxide	0	
116	Bag 2 Fuel Economy	0	
117	CH4 - Methane	0	
118	Carbon Monoxide	0	
119	Carbon dioxide	0	
120	Carbon-Related Exhaust Emissions	0	
121	Drive Trace Absolute Speed Change Rating	5.7895639	
122	Drive Trace Energy Economy Rating	1.1021988	
123	Drive Trace Inertia Work Ratio Rating	7.1774282	
124	Integrated Amp-hours	33.64	
125	Manufacturer Fuel Economy	0	
126	Nitrogen Oxide	0	
127	Non-methane Hydrocarbon	0	
128	Non-methane organic gas	0	
129	Non-methane organic gases plus Nitrogen Oxides	999.999	
130	System End State of Charge Watt-hours	33.64	
131	System Start State of Charge Watt-hours	26.67	
132	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
133	Actual Distance Driven (miles)	10.262	
134	Average System Voltage	309.36	
135	Bag 1 Carbon Dioxide	0	
136	Bag 1 Fuel Economy	0	
137	Bag 2 Carbon Dioxide	0	
138	Bag 2 Fuel Economy	0	
139	CH4 - Methane	0	
140	Carbon Monoxide	0	
141	Carbon dioxide	0	
142	Carbon-Related Exhaust Emissions	0	
143	Drive Trace Absolute Speed Change Rating	6.4579859	
144	Drive Trace Energy Economy Rating	1.9526842	
145	Drive Trace Inertia Work Ratio Rating	7.5976549	
146	Integrated Amp-hours	26.67	
147	Manufacturer Fuel Economy	0	
148	Nitrogen Oxide	0	
149	Non-methane Hydrocarbon	0	
150	Non-methane organic gas	0	
151	Non-methane organic gases plus Nitrogen Oxides	999.999	
152	System End State of Charge Watt-hours	26.67	
153	System Start State of Charge Watt-hours	19.807	
154	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
155	Actual Distance Driven (miles)	10.258	
156	Average System Voltage	337.08	
157	Bag 1 Carbon Dioxide	0	
158	Bag 1 Fuel Economy	0	
159	Bag 2 Carbon Dioxide	0	
160	Bag 2 Fuel Economy	0	
161	CH4 - Methane	0	
162	Carbon Monoxide	0	
163	Carbon dioxide	0	
164	Carbon-Related Exhaust Emissions	0	
165	Drive Trace Absolute Speed Change Rating	7.3213248	
166	Drive Trace Energy Economy Rating	0.9682991	
167	Drive Trace Inertia Work Ratio Rating	9.1076366	
168	Integrated Amp-hours	6.565	
169	Manufacturer Fuel Economy	143.8	
170	Nitrogen Oxide	0	
171	Non-methane Hydrocarbon	0	
172	Non-methane organic gas	0	
173	Non-methane organic gases plus Nitrogen Oxides	999.999	
174	System End State of Charge Watt-hours	6.565	
175	System Start State of Charge Watt-hours	0	
176	Total Hydrocarbon	0	

Manufacturer Test Comments NMOG/NMHC FACTOR(1.03) IS APPLIED. MFR 4K TEST (CD HWY). TRANSITION CYCLE IS PHASE #6. ALL ELECTRIC RANGE: 60.92 mile. CHARGE TIME: 7505 SEC.

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family					KHNXR0116VSA		
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	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	141	--	--	--	9.51	--	151	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	8	--	--	--	9.51	--	18	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	140	--	--	--	9.51	--	150	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA									
Emission Data Vehicle Information												
Vehicle ID / Configuration	DJWJ1C / 1	Manufacturer Vehicle Configuration Number	1									
Original Test Group Name	JHNXV01.5DH2	Original Evaporative/Refueling Family	JHNXR0116VSA									
Original Test Vehicle Model Year	2018											
Vehicle Model												
Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	Clarity Plug-in Hybrid									
Leak Family Details												
Leak Family Identifier	C00	Leak Family Name	JHNXR0116VSA-C00									
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>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
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	0	Odometer Correction Factor	0.993									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	JWJ1C1	Rated Horsepower	103									
Displacement (liters)	1.5											
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'										
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--									
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front									
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)									
Curb Weight (lbs)	4065	Equivalent Test Weight (pounds)	4250									
GVWR (lbs)	--	N/V Ratio	36.2									
Axle Ratio	3.42											
Transmission Type	Continuously Variable	# of Transmission Gears	1									
Transmission Lockup	Yes	Creeper Gear	No									

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family			KHNXR0116VSA
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	26.78	0.3123	0.01713	8.04	0.2919	0.01599	11.4	
Cold CO	29.46	0.3435	0.01884	0.52	0.2533	0.01793	N/A	
US06	26.78	0.3123	0.01713	8.04	0.2919	0.01599	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		MULTI MODE: ECON OFF. TIRE: 235/45R18 94V. PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. COOLING FAN USED FOR CITY, HIGHWAY, US06, SC03 AND COLD CO: ROAD SPEED FAN WITH ENGINE HOOD CLOSED.						

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048851	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/30/2017	Fuel	Gasoline
Fuel Batch ID	QGLH58	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4687	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	192.99	--	
FE BAG 1 (Bag 1 Fuel Economy)	44.8	44.8	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	112.84	--	
FE BAG 2 (Bag 2 Fuel Economy)	76.8	76.8	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	161.41	--	
FE BAG 3 (Bag 3 Fuel Economy)	53.7	53.7	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	107.49	--	
FE BAG 4 (Bag 4 Fuel Economy)	80.6	80.6	
METHANE (CH4 - Methane)	0.00176	--	
CO (Carbon Monoxide)	0.095	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.6393041	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.7148793	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.079568	--	
HCHO (Formaldehyde)	0.00031	--	
MFR FE (Manufacturer Fuel Economy)	61.4	61.4	
NOX (Nitrogen Oxide)	0.0024	--	
N2O (Nitrous Oxide)	0.00046	--	
HC-NM (Non-methane Hydrocarbon)	0.00623	--	
NMOG (Non-methane organic gas)	0.00686	--	
PM (Particulate Matter)	0.0005	--	
HC-TOTAL (Total Hydrocarbon)	0.00789	--	

Certification Summary Information Report

Test Group		KHNXV01.5D92				Evaporative/Refueling Family				KHNXR0116VSA		
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 20	CO	0.1	--	--	--	0	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO-COMP	0.06	--	--	--	--	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	HCHO	0.0003	--	--	--	0.0001	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0069	--	1.100561	--	0.0019	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0093	--	1.100561	--	--	--	0.014	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX-COMP	0.0107	--	1.100561	--	--	--	0.011	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0024	--	--	--	0.003	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0005	--	--	--	0.0001	--	0.001	0.003	Pass
CA	120,000 miles	California LEV-III SULEV20	CREE	999	--	--	--	9.51	--	1009	--	--
CA	150,000 miles	California LEV-III SULEV20	CO	0.1	--	--	--	0	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-III SULEV20	CO-COMP	0.06	--	--	--	--	--	0.1	4.2	Pass
CA	150,000 miles	California LEV-III SULEV20	HCHO	0.0003	--	--	--	0.0001	--	0	0.004	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0069	--	1.100561	--	0.0019	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0093	--	1.100561	--	--	--	0.014	0.020	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX-COMP	0.0107	--	1.100561	--	--	--	0.011	0.050	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0024	--	--	--	0.003	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	PM	0.0005	--	--	--	0.0001	--	0.001	0.003	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048855	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	06/06/2017	Fuel	Gasoline
Fuel Batch ID	QAWH52	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4951	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	269.47	--
FE BAG 1 (Bag 1 Fuel Economy)	31.7	31.7
CO2 BAG 2 (Bag 2 Carbon Dioxide)	204.58	--
FE BAG 2 (Bag 2 Fuel Economy)	41.9	41.9
CO2 BAG 3 (Bag 3 Carbon Dioxide)	150.55	--
FE BAG 3 (Bag 3 Fuel Economy)	57	57
CO2 BAG 4 (Bag 4 Carbon Dioxide)	161.72	--
FE BAG 4 (Bag 4 Fuel Economy)	53.1	53.1
METHANE (CH4 - Methane)	0.00489	--
CO (Carbon Monoxide)	0.251	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.6257033	--
DT-EER (Drive Trace Energy Economy Rating)	0.0140469	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.8099219	--
MFR FE (Manufacturer Fuel Economy)	44.8	44.8
HC-NM (Non-methane Hydrocarbon)	0.03058	--
HC-TOTAL (Total Hydrocarbon)	0.03487	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	191.03	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	190.53	--

Manufacturer Test Comments MFR 4K TEST (COLD FTP), SOC = -0.13

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	50,000 miles	Federal Tier 3 Bin 20	CO	0.25	--	--	--	0	--	0.2	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.03	--	--	--	0	--	0	0.2	Pass
CA	50,000 miles	California LEV-III SULEV20	CO	0.25	--	--	--	0	--	0.2	10.0	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048852	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/30/2017	Fuel	Gasoline
Fuel Batch ID	QGLH58	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4702	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00024	--
CO (Carbon Monoxide)	0.06	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.6935001	--
DT-EER (Drive Trace Energy Economy Rating)	0.214793	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.3905983	--
MFR FE (Manufacturer Fuel Economy)	60.6	60.6
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.00021	--
NMOG (Non-methane organic gas)	0.00022	--
HC-TOTAL (Total Hydrocarbon)	0.00044	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	142.89	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	142.79	--

Manufacturer Test Comments MFR 4K TEST (HWY), SOC = -0.16

Certification Summary Information Report

Test Group		KHNXV01.5D92				Evaporative/Refueling Family				KHNXR0116VSA		
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	120,000 miles	Federal Tier 3 Bin 20	CREE	999	--	--	--	9.51	--	1009	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0002	--	1.03	--	0.0019	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0002	--	1.03	--	--	--	0.005	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0	--	--	--	0.003	--	0.003	999.999	Pass
CA	120,000 miles	California LEV-III SULEV20	CREE	999	--	--	--	9.51	--	1009	--	--
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0002	--	1.03	--	0.0019	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0002	--	1.03	--	--	--	0.005	0.020	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0	--	--	--	0.003	--	0.003	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048853	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/30/2017	Fuel	Gasoline
Fuel Batch ID	QGLH58	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4725	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	223.03	--
FE BAG 1 (Bag 1 Fuel Economy)	38.9	38.9
CO2 BAG 2 (Bag 2 Carbon Dioxide)	197.92	--
FE BAG 2 (Bag 2 Fuel Economy)	43.8	43.8
METHANE (CH4 - Methane)	0.00038	--
CO (Carbon Monoxide)	0.005	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.5156051	--
DT-EER (Drive Trace Energy Economy Rating)	-0.797684	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.298434	--
MFR FE (Manufacturer Fuel Economy)	42.7	42.7
NOX (Nitrogen Oxide)	0.0024	--
HC-NM (Non-methane Hydrocarbon)	0.00064	--
NMOG (Non-methane organic gas)	0.00066	--
PM (Particulate Matter)	0.001	--
HC-TOTAL (Total Hydrocarbon)	0.001	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	203.47	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	203.46	--

Certification Summary Information Report

Test Group		KHNXV01.5D92		Evaporative/Refueling Family				KHNXR0116VSA				
Manufacturer Test Comments		MFR 4K TEST (US06), SOC = -0.07										
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 20	NMOG	0.0007	--	1.03	--	0.0019	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0024	--	--	--	0.003	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.001	--	--	--	0.0001	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0007	--	1.03	--	0.0019	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0024	--	--	--	0.003	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	PM	0.001	--	--	--	0.0001	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048854	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/30/2017	Fuel	Gasoline
Fuel Batch ID	QGLH58	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4741	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00192	--
CO (Carbon Monoxide)	0.067	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3789691	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3066218	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5250785	--
MFR FE (Manufacturer Fuel Economy)	35.5	35.5
NOX (Nitrogen Oxide)	0.0035	--
HC-NM (Non-methane Hydrocarbon)	0.00111	--
NMOG (Non-methane organic gas)	0.00114	--
HC-TOTAL (Total Hydrocarbon)	0.00292	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	243.76	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	243.65	--

Manufacturer Test Comments MFR 4K TEST (SC03), SOC = -0.23

Certification Summary Information Report

Test Group		KHNXV01.5D92				Evaporative/Refueling Family				KHNXR0116VSA		
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 20	NMOG	0.0011	--	1.03	--	0.0019	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0035	--	--	--	0.003	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0011	--	1.03	--	0.0019	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0035	--	--	--	0.003	--	0.006	999.999	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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Emission Data Vehicle Information

Vehicle ID / Configuration	EJWJ1C / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	JHNXV01.5DH2	Original Evaporative/Refueling Family	JHNXR0116VSA
Original Test Vehicle Model Year	2018		
Vehicle Model			
Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	Clarity Plug-in Hybrid

Leak Family Details

Leak Family Identifier	C00	Leak Family Name	JHNXR0116VSA-C00
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
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	0	Odometer Correction Factor	0.994
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	JWJ1C1	Rated Horsepower	103
Displacement (liters)	1.5	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Naturally Aspirated	Air Aspiration Device Configuration	--
Number of Air Aspiration Devices	0	Drive Mode While Testing	2-Wheel Drive, Front
Charge Air Cooler Type	N/A	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	4250
Curb Weight (lbs)	4065	N/V Ratio	36.2
GVWR (lbs)	--		
Axle Ratio	3.42	# of Transmission Gears	1
Transmission Type	Continuously Variable	Creeper Gear	No
Transmission Lockup	Yes		

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	26.78	0.3123	0.01713	8.04	0.2919	0.01599	11.4

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	MULTI MODE: ECON OFF. TIRE: 235/45R18 94V. PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. COOLING FAN USED FOR CD UDDS AND CD HWY: ROAD SPEED FAN WITH ENGINE HOOD CLOSED.		

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10050183	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/26/2017	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5190	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV TEST INFO			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	14.502
Charge Depleting Range (Calculated miles)	72.721	Charge Depleting Range (Actual miles)	72.721
Equivalent All Electric Range (miles)	72.721		
Number of Charge Depleting Bags/Phases Conducted	12		
Charge Depleting Bag/Phase			

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	7.453	
2	Average System Voltage	309.185	
3	Bag 1 Carbon Dioxide	0	
4	Bag 1 Fuel Economy	0	
5	Bag 2 Carbon Dioxide	0	
6	Bag 2 Fuel Economy	0	
7	CH4 - Methane	0	
8	Carbon Monoxide	0	
9	Carbon dioxide	0	
10	Carbon-Related Exhaust Emissions	0	
11	Drive Trace Absolute Speed Change Rating	0	
12	Drive Trace Energy Economy Rating	0	
13	Drive Trace Inertia Work Ratio Rating	0	
14	Integrated Amp-hours	25.007	
15	Manufacturer Fuel Economy	0	
16	Nitrogen Oxide	0	
17	Non-methane Hydrocarbon	0	
18	Non-methane organic gas	0	
19	Non-methane organic gases plus Nitrogen Oxides	999.999	
20	System End State of Charge Watt-hours	25.007	
21	System Start State of Charge Watt-hours	20.759	
22	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
23	Actual Distance Driven (miles)	7.458	
24	Average System Voltage	301.16	
25	Bag 1 Carbon Dioxide	0	
26	Bag 1 Fuel Economy	0	
27	Bag 2 Carbon Dioxide	0	
28	Bag 2 Fuel Economy	0	
29	CH4 - Methane	0	
30	Carbon Monoxide	0	
31	Carbon dioxide	0	
32	Carbon-Related Exhaust Emissions	0	
33	Drive Trace Absolute Speed Change Rating	0	
34	Drive Trace Energy Economy Rating	0	
35	Drive Trace Inertia Work Ratio Rating	0	
36	Integrated Amp-hours	37.97	
37	Manufacturer Fuel Economy	0	
38	Nitrogen Oxide	0	
39	Non-methane Hydrocarbon	0	
40	Non-methane organic gas	0	
41	Non-methane organic gases plus Nitrogen Oxides	999.999	
42	System End State of Charge Watt-hours	37.97	
43	System Start State of Charge Watt-hours	33.615	
44	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	7.467	
46	Average System Voltage	304.168	
47	Bag 1 Carbon Dioxide	0	
48	Bag 1 Fuel Economy	0	
49	Bag 2 Carbon Dioxide	0	
50	Bag 2 Fuel Economy	0	
51	CH4 - Methane	0	
52	Carbon Monoxide	0	
53	Carbon dioxide	0	
54	Carbon-Related Exhaust Emissions	0	
55	Drive Trace Absolute Speed Change Rating	0	
56	Drive Trace Energy Economy Rating	0	
57	Drive Trace Inertia Work Ratio Rating	0	
58	Integrated Amp-hours	33.615	
59	Manufacturer Fuel Economy	0	
60	Nitrogen Oxide	0	
61	Non-methane Hydrocarbon	0	
62	Non-methane organic gas	0	
63	Non-methane organic gases plus Nitrogen Oxides	999.999	
64	System End State of Charge Watt-hours	33.615	
65	System Start State of Charge Watt-hours	29.297	
66	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
67	Actual Distance Driven (miles)	7.463	
68	Average System Voltage	325.872	
69	Bag 1 Carbon Dioxide	0	
70	Bag 1 Fuel Economy	0	
71	Bag 2 Carbon Dioxide	0	
72	Bag 2 Fuel Economy	0	
73	CH4 - Methane	0	
74	Carbon Monoxide	0	
75	Carbon dioxide	0	
76	Carbon-Related Exhaust Emissions	0	
77	Drive Trace Absolute Speed Change Rating	0	
78	Drive Trace Energy Economy Rating	0	
79	Drive Trace Inertia Work Ratio Rating	0	
80	Integrated Amp-hours	12.4	
81	Manufacturer Fuel Economy	0	
82	Nitrogen Oxide	0	
83	Non-methane Hydrocarbon	0	
84	Non-methane organic gas	0	
85	Non-methane organic gases plus Nitrogen Oxides	999.999	
86	System End State of Charge Watt-hours	12.4	
87	System Start State of Charge Watt-hours	8.331	
88	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNV01.5D92	Evaporative/Refueling Family	KHNV0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
89	Actual Distance Driven (miles)	7.478	
90	Average System Voltage	313.542	
91	Bag 1 Carbon Dioxide	0	
92	Bag 1 Fuel Economy	0	
93	Bag 2 Carbon Dioxide	0	
94	Bag 2 Fuel Economy	0	
95	CH4 - Methane	0	
96	Carbon Monoxide	0	
97	Carbon dioxide	0	
98	Carbon-Related Exhaust Emissions	0	
99	Drive Trace Absolute Speed Change Rating	0	
100	Drive Trace Energy Economy Rating	0	
101	Drive Trace Inertia Work Ratio Rating	0	
102	Integrated Amp-hours	20.759	
103	Manufacturer Fuel Economy	0	
104	Nitrogen Oxide	0	
105	Non-methane Hydrocarbon	0	
106	Non-methane organic gas	0	
107	Non-methane organic gases plus Nitrogen Oxides	999.999	
108	System End State of Charge Watt-hours	20.759	
109	System Start State of Charge Watt-hours	16.542	
110	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
111	Actual Distance Driven (miles)	7.439	
112	Average System Voltage	295.18	
113	Bag 1 Carbon Dioxide	138.92	
114	Bag 1 Fuel Economy	64.142	
115	Bag 2 Carbon Dioxide	0	
116	Bag 2 Fuel Economy	0	
117	CH4 - Methane	0.001	
118	Carbon Monoxide	0.052	
119	Carbon dioxide	138.92	
120	Carbon-Related Exhaust Emissions	139.08	
121	Drive Trace Absolute Speed Change Rating	0	
122	Drive Trace Energy Economy Rating	0	
123	Drive Trace Inertia Work Ratio Rating	0	
124	Integrated Amp-hours	41.06	
125	Manufacturer Fuel Economy	0	
126	Nitrogen Oxide	0.002	
127	Non-methane Hydrocarbon	0.001	
128	Non-methane organic gas	0.00104	
129	Non-methane organic gases plus Nitrogen Oxides	999.999	
130	System End State of Charge Watt-hours	41.06	
131	System Start State of Charge Watt-hours	41.217	
132	Total Hydrocarbon	0.002	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
133	Actual Distance Driven (miles)	7.475	
134	Average System Voltage	297.15	
135	Bag 1 Carbon Dioxide	44.376	
136	Bag 1 Fuel Economy	199.756	
137	Bag 2 Carbon Dioxide	0	
138	Bag 2 Fuel Economy	0	
139	CH4 - Methane	0.002	
140	Carbon Monoxide	0.133	
141	Carbon dioxide	44.376	
142	Carbon-Related Exhaust Emissions	44.25	
143	Drive Trace Absolute Speed Change Rating	0	
144	Drive Trace Energy Economy Rating	0	
145	Drive Trace Inertia Work Ratio Rating	0	
146	Integrated Amp-hours	41.217	
147	Manufacturer Fuel Economy	0	
148	Nitrogen Oxide	0.005	
149	Non-methane Hydrocarbon	0.014	
150	Non-methane organic gas	0.01456	
151	Non-methane organic gases plus Nitrogen Oxides	999.999	
152	System End State of Charge Watt-hours	41.217	
153	System Start State of Charge Watt-hours	37.97	
154	Total Hydrocarbon	0.016	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
155	Actual Distance Driven (miles)	7.466	
156	Average System Voltage	295.557	
157	Bag 1 Carbon Dioxide	136.902	
158	Bag 1 Fuel Economy	65.11	
159	Bag 2 Carbon Dioxide	0	
160	Bag 2 Fuel Economy	0	
161	CH4 - Methane	0.001	
162	Carbon Monoxide	0.022	
163	Carbon dioxide	136.902	
164	Carbon-Related Exhaust Emissions	137.03	
165	Drive Trace Absolute Speed Change Rating	0	
166	Drive Trace Energy Economy Rating	0	
167	Drive Trace Inertia Work Ratio Rating	0	
168	Integrated Amp-hours	40.958	
169	Manufacturer Fuel Economy	0	
170	Nitrogen Oxide	0.002	
171	Non-methane Hydrocarbon	0	
172	Non-methane organic gas	0	
173	Non-methane organic gases plus Nitrogen Oxides	999.999	
174	System End State of Charge Watt-hours	40.958	
175	System Start State of Charge Watt-hours	41.06	
176	Total Hydrocarbon	0.001	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
177	Actual Distance Driven (miles)	7.455	
178	Average System Voltage	331.8	
179	Bag 1 Carbon Dioxide	0	
180	Bag 1 Fuel Economy	0	
181	Bag 2 Carbon Dioxide	0	
182	Bag 2 Fuel Economy	0	
183	CH4 - Methane	0	
184	Carbon Monoxide	0	
185	Carbon dioxide	0	
186	Carbon-Related Exhaust Emissions	0	
187	Drive Trace Absolute Speed Change Rating	0	
188	Drive Trace Energy Economy Rating	0	
189	Drive Trace Inertia Work Ratio Rating	0	
190	Integrated Amp-hours	8.331	
191	Manufacturer Fuel Economy	0	
192	Nitrogen Oxide	0	
193	Non-methane Hydrocarbon	0	
194	Non-methane organic gas	0	
195	Non-methane organic gases plus Nitrogen Oxides	999.999	
196	System End State of Charge Watt-hours	8.331	
197	System Start State of Charge Watt-hours	4.323	
198	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
199	Actual Distance Driven (miles)	7.467	
200	Average System Voltage	319.477	
201	Bag 1 Carbon Dioxide	0	
202	Bag 1 Fuel Economy	0	
203	Bag 2 Carbon Dioxide	0	
204	Bag 2 Fuel Economy	0	
205	CH4 - Methane	0	
206	Carbon Monoxide	0	
207	Carbon dioxide	0	
208	Carbon-Related Exhaust Emissions	0	
209	Drive Trace Absolute Speed Change Rating	0	
210	Drive Trace Energy Economy Rating	0	
211	Drive Trace Inertia Work Ratio Rating	0	
212	Integrated Amp-hours	16.542	
213	Manufacturer Fuel Economy	0	
214	Nitrogen Oxide	0	
215	Non-methane Hydrocarbon	0	
216	Non-methane organic gas	0	
217	Non-methane organic gases plus Nitrogen Oxides	999.999	
218	System End State of Charge Watt-hours	16.542	
219	System Start State of Charge Watt-hours	12.4	
220	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result
	221	Actual Distance Driven (miles)	7.453
	222	Average System Voltage	338.565
	223	Bag 1 Carbon Dioxide	0
	224	Bag 1 Fuel Economy	0
	225	Bag 2 Carbon Dioxide	0
	226	Bag 2 Fuel Economy	0
	227	CH4 - Methane	0.00151
	228	Carbon Monoxide	0.0868
	229	Carbon dioxide	0
	230	Carbon-Related Exhaust Emissions	0
	231	Drive Trace Absolute Speed Change Rating	0
	232	Drive Trace Energy Economy Rating	0
	233	Drive Trace Inertia Work Ratio Rating	0
	234	Integrated Amp-hours	4.323
	235	Manufacturer Fuel Economy	167.9
	236	Nitrogen Oxide	0.003
	237	Non-methane Hydrocarbon	0.0062
	238	Non-methane organic gas	0.0065
	239	Non-methane organic gases plus Nitrogen Oxides	999.999
	240	System End State of Charge Watt-hours	4.323
	241	System Start State of Charge Watt-hours	0
	242	Total Hydrocarbon	0.00767

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
243	Actual Distance Driven (miles)	7.454	
244	Average System Voltage	306.468	
245	Bag 1 Carbon Dioxide	0	
246	Bag 1 Fuel Economy	0	
247	Bag 2 Carbon Dioxide	0	
248	Bag 2 Fuel Economy	0	
249	CH4 - Methane	0	
250	Carbon Monoxide	0	
251	Carbon dioxide	0	
252	Carbon-Related Exhaust Emissions	0	
253	Drive Trace Absolute Speed Change Rating	0	
254	Drive Trace Energy Economy Rating	0	
255	Drive Trace Inertia Work Ratio Rating	0	
256	Integrated Amp-hours	29.297	
257	Manufacturer Fuel Economy	0	
258	Nitrogen Oxide	0	
259	Non-methane Hydrocarbon	0	
260	Non-methane organic gas	0	
261	Non-methane organic gases plus Nitrogen Oxides	999.999	
262	System End State of Charge Watt-hours	29.297	
263	System Start State of Charge Watt-hours	29.297	
264	Total Hydrocarbon	0	

Manufacturer Test Comments

EPA CONFIRMATORY TEST (CD UDDS). Honda submits the EPA confirmatory testing results for data processing purpose only. NMOG/NMHC FACTOR(1.04) IS APPLIED. TRANSITION CYCLE IS PHASE #10. ALL ELECTRIC RANGE: 71.57 mile. CHARGE TIME: TBD. The values of DT-EER, DT-ASCR, and DT-IWRR are dummy.

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family					KHNXR0116VSA		
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	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	139	--	--	--	9.51	--	149	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	44	--	--	--	9.51	--	54	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	137	--	--	--	9.51	--	147	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10050184	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/27/2017	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5280	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV TEST INFO			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	14.541
Charge Depleting Range (Calculated miles)	63.496	Charge Depleting Range (Actual miles)	63.496
Equivalent All Electric Range (miles)	63.496		
Number of Charge Depleting Bags/Phases Conducted	8		
Charge Depleting Bag/Phase			

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	10.253	
2	Average System Voltage	337.065	
3	Bag 1 Carbon Dioxide	0	
4	Bag 1 Fuel Economy	0	
5	Bag 2 Carbon Dioxide	0	
6	Bag 2 Fuel Economy	0	
7	CH4 - Methane	0	
8	Carbon Monoxide	0	
9	Carbon dioxide	0	
10	Carbon-Related Exhaust Emissions	0	
11	Drive Trace Absolute Speed Change Rating	0	
12	Drive Trace Energy Economy Rating	0	
13	Drive Trace Inertia Work Ratio Rating	0	
14	Integrated Amp-hours	6.455	
15	Manufacturer Fuel Economy	146.4	
16	Nitrogen Oxide	0	
17	Non-methane Hydrocarbon	0	
18	Non-methane organic gas	0	
19	Non-methane organic gases plus Nitrogen Oxides	999.999	
20	System End State of Charge Watt-hours	6.455	
21	System Start State of Charge Watt-hours	0	
22	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
23	Actual Distance Driven (miles)	10.197	
24	Average System Voltage	300.095	
25	Bag 1 Carbon Dioxide	0	
26	Bag 1 Fuel Economy	0	
27	Bag 2 Carbon Dioxide	0	
28	Bag 2 Fuel Economy	0	
29	CH4 - Methane	0	
30	Carbon Monoxide	0	
31	Carbon dioxide	0	
32	Carbon-Related Exhaust Emissions	0	
33	Drive Trace Absolute Speed Change Rating	0	
34	Drive Trace Energy Economy Rating	0	
35	Drive Trace Inertia Work Ratio Rating	0	
36	Integrated Amp-hours	39.9	
37	Manufacturer Fuel Economy	0	
38	Nitrogen Oxide	0	
39	Non-methane Hydrocarbon	0	
40	Non-methane organic gas	0	
41	Non-methane organic gases plus Nitrogen Oxides	999.999	
42	System End State of Charge Watt-hours	39.9	
43	System Start State of Charge Watt-hours	33.04	
44	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	10.243	
46	Average System Voltage	305.094	
47	Bag 1 Carbon Dioxide	0	
48	Bag 1 Fuel Economy	0	
49	Bag 2 Carbon Dioxide	0	
50	Bag 2 Fuel Economy	0	
51	CH4 - Methane	0	
52	Carbon Monoxide	0	
53	Carbon dioxide	0	
54	Carbon-Related Exhaust Emissions	0	
55	Drive Trace Absolute Speed Change Rating	0	
56	Drive Trace Energy Economy Rating	0	
57	Drive Trace Inertia Work Ratio Rating	0	
58	Integrated Amp-hours	33.04	
59	Manufacturer Fuel Economy	0	
60	Nitrogen Oxide	0	
61	Non-methane Hydrocarbon	0	
62	Non-methane organic gas	0	
63	Non-methane organic gases plus Nitrogen Oxides	999.999	
64	System End State of Charge Watt-hours	33.04	
65	System Start State of Charge Watt-hours	26.186	
66	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
67	Actual Distance Driven (miles)	10.235	
68	Average System Voltage	309.514	
69	Bag 1 Carbon Dioxide	0	
70	Bag 1 Fuel Economy	0	
71	Bag 2 Carbon Dioxide	0	
72	Bag 2 Fuel Economy	0	
73	CH4 - Methane	0	
74	Carbon Monoxide	0	
75	Carbon dioxide	0	
76	Carbon-Related Exhaust Emissions	0	
77	Drive Trace Absolute Speed Change Rating	0	
78	Drive Trace Energy Economy Rating	0	
79	Drive Trace Inertia Work Ratio Rating	0	
80	Integrated Amp-hours	26.186	
81	Manufacturer Fuel Economy	0	
82	Nitrogen Oxide	0	
83	Non-methane Hydrocarbon	0	
84	Non-methane organic gas	0	
85	Non-methane organic gases plus Nitrogen Oxides	999.999	
86	System End State of Charge Watt-hours	26.186	
87	System Start State of Charge Watt-hours	19.447	
88	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
89	Actual Distance Driven (miles)	10.247	
90	Average System Voltage	295.244	
91	Bag 1 Carbon Dioxide	148.037	
92	Bag 1 Fuel Economy	60.227	
93	Bag 2 Carbon Dioxide	0	
94	Bag 2 Fuel Economy	0	
95	CH4 - Methane	0	
96	Carbon Monoxide	0.003	
97	Carbon dioxide	148.037	
98	Carbon-Related Exhaust Emissions	148	
99	Drive Trace Absolute Speed Change Rating	0	
100	Drive Trace Energy Economy Rating	0	
101	Drive Trace Inertia Work Ratio Rating	0	
102	Integrated Amp-hours	41.066	
103	Manufacturer Fuel Economy	0	
104	Nitrogen Oxide	0.002	
105	Non-methane Hydrocarbon	0	
106	Non-methane organic gas	0	
107	Non-methane organic gases plus Nitrogen Oxides	999.999	
108	System End State of Charge Watt-hours	41.066	
109	System Start State of Charge Watt-hours	41.29	
110	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
111	Actual Distance Driven (miles)	10.246	
112	Average System Voltage	317.249	
113	Bag 1 Carbon Dioxide	0	
114	Bag 1 Fuel Economy	0	
115	Bag 2 Carbon Dioxide	0	
116	Bag 2 Fuel Economy	0	
117	CH4 - Methane	0	
118	Carbon Monoxide	0	
119	Carbon dioxide	0	
120	Carbon-Related Exhaust Emissions	0	
121	Drive Trace Absolute Speed Change Rating	0	
122	Drive Trace Energy Economy Rating	0	
123	Drive Trace Inertia Work Ratio Rating	0	
124	Integrated Amp-hours	19.447	
125	Manufacturer Fuel Economy	0	
126	Nitrogen Oxide	0	
127	Non-methane Hydrocarbon	0	
128	Non-methane organic gas	0	
129	Non-methane organic gases plus Nitrogen Oxides	999.999	
130	System End State of Charge Watt-hours	19.447	
131	System Start State of Charge Watt-hours	12.855	
132	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
133	Actual Distance Driven (miles)	10.252	
134	Average System Voltage	295.943	
135	Bag 1 Carbon Dioxide	121.048	
136	Bag 1 Fuel Economy	73.51	
137	Bag 2 Carbon Dioxide	0	
138	Bag 2 Fuel Economy	0	
139	CH4 - Methane	0.002	
140	Carbon Monoxide	0.117	
141	Carbon dioxide	121.048	
142	Carbon-Related Exhaust Emissions	121.25	
143	Drive Trace Absolute Speed Change Rating	0	
144	Drive Trace Energy Economy Rating	0	
145	Drive Trace Inertia Work Ratio Rating	0	
146	Integrated Amp-hours	41.29	
147	Manufacturer Fuel Economy	0	
148	Nitrogen Oxide	0.006	
149	Non-methane Hydrocarbon	0.017	
150	Non-methane organic gas	0.01768	
151	Non-methane organic gases plus Nitrogen Oxides	999.999	
152	System End State of Charge Watt-hours	41.29	
153	System Start State of Charge Watt-hours	39.9	
154	Total Hydrocarbon	0.019	

Charge Depleting Bag/Phase

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
155	Actual Distance Driven (miles)	10.245	
156	Average System Voltage	326.95	
157	Bag 1 Carbon Dioxide	0	
158	Bag 1 Fuel Economy	0	
159	Bag 2 Carbon Dioxide	0	
160	Bag 2 Fuel Economy	0	
161	CH4 - Methane	0	
162	Carbon Monoxide	0	
163	Carbon dioxide	0	
164	Carbon-Related Exhaust Emissions	0	
165	Drive Trace Absolute Speed Change Rating	0	
166	Drive Trace Energy Economy Rating	0	
167	Drive Trace Inertia Work Ratio Rating	0	
168	Integrated Amp-hours	12.855	
169	Manufacturer Fuel Economy	0	
170	Nitrogen Oxide	0	
171	Non-methane Hydrocarbon	0	
172	Non-methane organic gas	0	
173	Non-methane organic gases plus Nitrogen Oxides	999.999	
174	System End State of Charge Watt-hours	12.855	
175	System Start State of Charge Watt-hours	6.455	
176	Total Hydrocarbon	0	

Manufacturer Test Comments EPA CONFIRMATORY TEST (CD HWY). Honda submits the EPA confirmatory testing results for data processing purpose only. NMOG/NMHC FACTOR(1.04) IS APPLIED. TRANSITION CYCLE IS PHASE #7. ALL ELECTRIC RANGE: 61.47 mile. CHARGE TIME: TBD. The values of DT-EER, DT-ASCR, and DT-IWRR are dummy.

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family					KHNXR0116VSA		
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	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	148	--	--	--	9.51	--	158	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	121	--	--	--	9.51	--	131	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.51	--	10	--	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA									
Emission Data Vehicle Information												
Vehicle ID / Configuration	EJWJ1C / 1	Manufacturer Vehicle Configuration Number	1									
Original Test Group Name	JHNXV01.5DH2	Original Evaporative/Refueling Family	JHNXR0116VSA									
Original Test Vehicle Model Year	2018											
Vehicle Model												
Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	Clarity Plug-in Hybrid									
Leak Family Details												
Leak Family Identifier	C00	Leak Family Name	JHNXR0116VSA-C00									
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>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
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	0	Odometer Correction Factor	0.994									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	JWJ1C1	Rated Horsepower	103									
Displacement (liters)	1.5											
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'										
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--									
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front									
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)									
Curb Weight (lbs)	4065	Equivalent Test Weight (pounds)	4250									
GVWR (lbs)	--	N/V Ratio	36.2									
Axle Ratio	3.42											
Transmission Type	Continuously Variable	# of Transmission Gears	1									
Transmission Lockup	Yes	Creeper Gear	No									

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family			KHNXR0116VSA
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	26.78	0.3123	0.01713	8.04	0.2919	0.01599	11.4	
Cold CO	29.46	0.3435	0.01884	5.31	0.1713	0.01847	N/A	
US06	26.78	0.3123	0.01713	8.04	0.2919	0.01599	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	MULTI MODE: ECON OFF. TIRE: 235/45R18 94V. PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. COOLING FAN USED FOR CITY, HIGHWAY, US06, SC03 AND COLD CO: ROAD SPEED FAN WITH ENGINE HOOD CLOSED.							

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048815	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)
Test Date	06/01/2017	Fuel	Gasoline
Fuel Batch ID	QTYH51	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4480	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	277.41	--
FE BAG 1 (Bag 1 Fuel Economy)	31.7	31.7
CO2 BAG 2 (Bag 2 Carbon Dioxide)	200.8	--
FE BAG 2 (Bag 2 Fuel Economy)	44.2	44.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	137.76	--
FE BAG 3 (Bag 3 Fuel Economy)	64.5	64.5
METHANE (CH4 - Methane)	0.00419	--
CO (Carbon Monoxide)	0.3148	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.152349	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1859094	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.1934667	--
MFR FE (Manufacturer Fuel Economy)	45	45
HC-NM (Non-methane Hydrocarbon)	0.03373	--
HC-TOTAL (Total Hydrocarbon)	0.03764	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	197.77	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	197.16	--

Manufacturer Test Comments

MFR 4K TEST (COLD FTP), SOC = -0.16

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family					KHNXR0116VSA		
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	50,000 miles	Federal Tier 3 Bin 20	CO	0.31	--	--	--	0	--	0.3	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.03	--	--	--	0	--	0	0.2	Pass
CA	50,000 miles	California LEV-III SULEV20	CO	0.31	--	--	--	0	--	0.3	10.0	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048842	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	05/30/2017	Fuel	Gasoline
Fuel Batch ID	2HRH51	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4342	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	185.05	--
FE BAG 1 (Bag 1 Fuel Economy)	47.6	47.6
CO2 BAG 2 (Bag 2 Carbon Dioxide)	112.71	--
FE BAG 2 (Bag 2 Fuel Economy)	78.4	78.4
CO2 BAG 3 (Bag 3 Carbon Dioxide)	162.79	--
FE BAG 3 (Bag 3 Fuel Economy)	54.3	54.3
CO2 BAG 4 (Bag 4 Carbon Dioxide)	111.92	--
FE BAG 4 (Bag 4 Fuel Economy)	79	79
METHANE (CH4 - Methane)	0.00144	--
CO (Carbon Monoxide)	0.104	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3120491	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4737538	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5927197	--
HCHO (Formaldehyde)	0.00047	--
MFR FE (Manufacturer Fuel Economy)	62.7	62.7
NOX (Nitrogen Oxide)	0.0027	--
N2O (Nitrous Oxide)	0.00053	--
HC-NM (Non-methane Hydrocarbon)	0.00939	--
NMOG (Non-methane organic gas)	0.00976	--
HC-TOTAL (Total Hydrocarbon)	0.01075	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	141.44	141

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	141.24	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.04) IS APPLIED. MFR 4K TEST (FTP). SOC = 0.17

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	120,000 miles	Federal Tier 3 Bin 20	CREE	141	--	--	--	9.51	--	151	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	METHANE	0.0014	--	--	--	0.0008	--	0.002	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	N2O	0.0005	--	--	--	0	--	0	0.010	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX91003620	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	07/25/2017	Fuel	Gasoline
Fuel Batch ID	25842	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5168	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	194.436859	--
FE BAG 1 (Bag 1 Fuel Economy)	45.6596336	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	115.3062434	--
FE BAG 2 (Bag 2 Fuel Economy)	77.236222	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	166.4156917	--
FE BAG 3 (Bag 3 Fuel Economy)	53.526412	--
CO2 BAG 4 (Bag 4 Carbon Dioxide)	109.5734296	--
FE BAG 4 (Bag 4 Fuel Economy)	81.3011294	--
METHANE (CH4 - Methane)	0.0016203	--
CO (Carbon Monoxide)	0.1062025	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.693263	--
DT-EER (Drive Trace Energy Economy Rating)	-0.81651	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.285311	--
MFR FE (Manufacturer Fuel Economy)	61.7998382	--
NOX (Nitrogen Oxide)	0.0042905	--
HC-NM (Non-methane Hydrocarbon)	0.0064761	--
NMOG (Non-methane organic gas)	0.0067352	--
HC-TOTAL (Total Hydrocarbon)	0.0080421	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	144	144

Certification Summary Information Report

Test Group		KHNXV01.5D92		Evaporative/Refueling Family				KHNXR0116VSA				
		Test Result Name		Unrounded Test Result				Verify Calculated CO2				
		Carbon dioxide		144.0575875				--				
Manufacturer Test Comments		NMOG=1.04 x NMHC TC N2O Not Measured. OPT-CREE not determined. CREE calculated.										
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	120,000 miles	Federal Tier 3 Bin 20	CREE	144	--	--	--	9.51	--	154	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	METHANE	0.0016	--	--	--	0.0008	--	0.002	0.030	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX91003613	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	07/20/2017	Fuel	Gasoline
Fuel Batch ID	25842	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5118	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0000773	--
CO (Carbon Monoxide)	0.0187279	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.18896	--
DT-EER (Drive Trace Energy Economy Rating)	-0.245177	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.491822	--
MFR FE (Manufacturer Fuel Economy)	62.0595736	--
NOX (Nitrogen Oxide)	0.0001559	--
HC-NM (Non-methane Hydrocarbon)	0.0000447	--
NMOG (Non-methane organic gas)	0.0000465	--
HC-TOTAL (Total Hydrocarbon)	0.0001194	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	144	144

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	143.558674	--

Manufacturer Test Comments

NMOG=1.04 x NMHC TC N2O Not Measured. OPT-CREE not determined. CREE calculated.

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family					KHNXR0116VSA		
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	120,000 miles	Federal Tier 3 Bin 20	CREE	144	--	--	--	9.51	--	154	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0	--	1.03	--	0.0019	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0002	--	1.03	--	--	--	0.005	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0002	--	--	--	0.003	--	0.003	999.999	Pass
CA	120,000 miles	California LEV-III SULEV20	CREE	144	--	--	--	9.51	--	154	--	--
CA	150,000 miles	California LEV-III SULEV20	NMOG	0	--	1.03	--	0.0019	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0002	--	1.03	--	--	--	0.005	0.020	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0002	--	--	--	0.003	--	0.003	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX91003615	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	07/20/2017	Fuel	Gasoline
Fuel Batch ID	25842	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5144	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	222.3805838	--
FE BAG 1 (Bag 1 Fuel Economy)	40.0676489	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	206.4004535	--
FE BAG 2 (Bag 2 Fuel Economy)	43.170815	--
METHANE (CH4 - Methane)	0.0001078	--
CO (Carbon Monoxide)	0.00854	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.499044	--
DT-EER (Drive Trace Energy Economy Rating)	-0.864747	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.555697	--
MFR FE (Manufacturer Fuel Economy)	42.4306663	--
NOX (Nitrogen Oxide)	0.010439	--
HC-NM (Non-methane Hydrocarbon)	0.0002207	--
NMOG (Non-methane organic gas)	0.0002295	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0106597	--
HC-TOTAL (Total Hydrocarbon)	0.0003249	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	209.9513723	--

Manufacturer Test Comments

NMOG=1.04 x NMHCTC US06 Bag 2 Drive Trace Results. TC N2O Not Measured. OPT-CREE not determined. CREE calculated.

Certification Summary Information Report

Test Group		KHNXV01.5D92				Evaporative/Refueling Family				KHNXR0116VSA		
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 20	NMOG	0.0002	--	1.03	--	0.0019	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0104	--	--	--	0.003	--	0.013	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0002	--	1.03	--	0.0019	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0104	--	--	--	0.003	--	0.013	999.999	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10048845	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	05/30/2017	Fuel	Gasoline
Fuel Batch ID	2HRH51	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4396	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00122	--
CO (Carbon Monoxide)	0.016	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3922269	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2292077	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.4171468	--
MFR FE (Manufacturer Fuel Economy)	37.5	37.5
NOX (Nitrogen Oxide)	0.003	--
HC-NM (Non-methane Hydrocarbon)	0.00097	--
NMOG (Non-methane organic gas)	0.00101	--
HC-TOTAL (Total Hydrocarbon)	0.00212	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	236.47	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	236.44	--

Manufacturer Test Comments MFR 4K TEST (SC03), SOC = -0.33

Certification Summary Information Report

Test Group		KHNXV01.5D92				Evaporative/Refueling Family				KHNXR0116VSA		
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 20	NMOG	0.001	--	1.03	--	0.0019	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.003	--	--	--	0.003	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.001	--	1.03	--	0.0019	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.003	--	--	--	0.003	--	0.006	999.999	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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Emission Data Vehicle Information

Vehicle ID / Configuration	EJWJ2C / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	JHNXV01.5DH2	Original Evaporative/Refueling Family	JHNXR0116VSA
Original Test Vehicle Model Year	2018		
Vehicle Model			
Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	Clarity Plug-in Hybrid

Leak Family Details

Leak Family Identifier	C00	Leak Family Name	JHNXR0116VSA-C00
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
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	0	Odometer Correction Factor	0.992
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	JWJ1C1	Rated Horsepower	103
Displacement (liters)	1.5		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	0	Air Aspiration Device Configuration	--
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	4065	Equivalent Test Weight (pounds)	4250
GVWR (lbs)	--	N/V Ratio	36.2
Axle Ratio	3.42		
Transmission Type	Continuously Variable	# of Transmission Gears	1
Transmission Lockup	Yes	Creeper Gear	No

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	26.78	0.3123	0.01713	10.04	0.2551	0.01678	11.4

Certification Summary Information Report

Test Group	KHNXV01.5D92		Evaporative/Refueling Family	KHNXR0116VSA				
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	MULTI MODE: ECON OFF. TIRE: 235/45R18 94V. PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. COOLING FAN USED FOR FTP: ROAD SPEED FAN WITH ENGINE HOOD CLOSED.							
Test #	JHNX10049195	Test Procedure	27 - California fuel 2-day evap					
Exhaust Test # for this Evap Test	JHNX10049193	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline					
Test Date	06/01/2017	Fuel	Gasoline					
Fuel Batch ID	QGLH56	Fuel Calibration Number	1					
Vehicle Class	N/A	DF Type	Mfr. Determined					
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)							
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)							
Test Start Odometer Reading	3222	Odometer Units	M					
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--					
State of Charge Delta	No	Road Speed Fan Usage	Yes					
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)							
Test Results								
Test Result Name		Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)					
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)		0.1313	--					
Manufacturer Test Comments MFR 150K TEST (2DAY EVAP)								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.1313	0	0.131	0.3	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1313	0	0.131	0.3	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Test #	JHNX10049200	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	JHNX10049194	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	06/15/2017	Fuel	Gasoline
Fuel Batch ID	QGLH56	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3265	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1431	--

Manufacturer Test Comments

MFR 150K TEST (3DAY EVAP)

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.1431	0	0.143	0.3	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1431	0	0.143	0.3	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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Test #	JHNX10049198	Test Procedure	37 - California Fuel Running Loss
Exhaust Test # for this Evap Test	JHNX10049194	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	06/15/2017	Fuel	Gasoline
Fuel Batch ID	QGLH56	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3248	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

Manufacturer Test Comments MFR 150K TEST (R/L)

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.05	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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Test #	JHNX10049199	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	JHNX10049193	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/23/2017	Fuel	Gasoline
Fuel Batch ID	QATH51	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3306	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0103	--

Manufacturer Test Comments

MFR 150K TEST (ORVR)

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.01	0	0.01	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.01	0	0.01	0.2	Pass

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Fuel Properties			
Fuel Batch ID	25842	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	08/10/2016
Fuel Batch Calibration Effective Date	08/10/2016	Fuel Batch Calibration Ineffective Date	08/10/2036
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	18443
Fuel Blend Carbon Weight Fraction	0.866	Weight Fraction CO2	--
Fuel Batch ID	2HRH51	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	05/10/2017
Fuel Batch Calibration Effective Date	05/15/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	18511
Fuel Blend Carbon Weight Fraction	0.864	Weight Fraction CO2	--
Fuel Batch ID	QTYH51	Fuel Calibration Number	1
Test Fuel Type	26 - Cold CO Regular (Tier 2)	Fuel Batch Calibration Date	05/10/2017
Fuel Batch Calibration Effective Date	05/10/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value (BTU / lb)	18470
Fuel Blend Carbon Weight Fraction	0.865	Weight Fraction CO2	--
Fuel Batch ID	QGLH58	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/08/2017
Fuel Batch Calibration Effective Date	06/08/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value (BTU / lb)	17992
Fuel Blend Carbon Weight Fraction	0.828	Weight Fraction CO2	--
Fuel Batch ID	QGLH56	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/08/2017
Fuel Batch Calibration Effective Date	06/08/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value (BTU / lb)	17992
Fuel Blend Carbon Weight Fraction	0.828	Weight Fraction CO2	--
Fuel Batch ID	QATH51	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/22/2017
Fuel Batch Calibration Effective Date	05/22/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value (BTU / lb)	17972
Fuel Blend Carbon Weight Fraction	0.826	Weight Fraction CO2	--
Fuel Batch ID	QAWH52	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	06/08/2017
Fuel Batch Calibration Effective Date	06/08/2017	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.738
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value (BTU / lb)	17913
Fuel Blend Carbon Weight Fraction	0.823	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	KHNV01.5D92				Evaporative/Refueling Family			KHNR0116VSA		
Consolidated List of Standards										
Exhaust Standards										
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert		
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III SULEV20		
Fuel	Gasoline				Test Procedure			US06		
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	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert		
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III SULEV20		
Fuel	Gasoline				Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	9.51	999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.020	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
Cert Region	Federal				Cert/In-Use Code			Cert		
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 20		
Fuel	Gasoline				Test Procedure			California fuel 2-day exhaust (w/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	1.0	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004	
150,000 miles	NMOG	--	--	1.100561	--	--	--	0.0019	999.999	
150,000 miles	NMOG+NOX	--	--	1.100561	--	--	1	--	0.020	
150,000 miles	NMOG+NOX-COMP	--	--	1.100561	--	--	--	--	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003	

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family			KHNXR0116VSA		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20		
Fuel		Gasoline			Test Procedure			California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	9.51	999	
150,000 miles	CO	--	--	--	--	--	--	0	1.0	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004	
150,000 miles	NMOG	--	--	1.100561	--	--	--	0.0019	999.999	
150,000 miles	NMOG+NOX	--	--	1.100561	--	--	1	--	0.020	
150,000 miles	NMOG+NOX-COMP	--	--	1.100561	--	--	--	--	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			SC03		
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	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	9.51	999	
120,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030	
120,000 miles	N2O	--	--	--	--	--	--	0	0.010	

Certification Summary Information Report

Test Group		KHNXV01.5D92			Evaporative/Refueling Family			KHNXR0116VSA		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20		
Fuel		Gasoline			Test Procedure			SC03		
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	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
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	
120,000 miles	CREE	--	--	--	--	--	--	9.51	999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	9.51	999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.020	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			US06		
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	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.003	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006	

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 20
Fuel	Gasoline	Test Procedure	Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.2

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	California LEV-III SULEV20
Fuel	Gasoline	Test Procedure	Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	10.0

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 20
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
120,000 miles	CREE	--	--	--	--	--	--	9.51	999

Evaporative/Refueling Standards

Evaporative/Refueling Family	KHNXR0116VSA	Cert Region	Federal
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0

Certification Summary Information Report

Test Group	KHNXV01.5D92		Evaporative/Refueling Family	KHNXR0116VSA	
Evaporative/Refueling Family	KHNXR0116VSA		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Cert		Standard Level		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0
Evaporative/Refueling Family	KHNXR0116VSA		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Cert		Standard Level		
Test Procedure	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
Evaporative/Refueling Family	KHNXR0116VSA		Cert Region	Federal Federal Tier 3 Evap	
Cert/In-Use Code	Cert		Standard Level		
Test Procedure	California fuel 2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
Evaporative/Refueling Family	KHNXR0116VSA		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Cert		Standard Level		
Test Procedure	California Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0
Evaporative/Refueling Family	KHNXR0116VSA		Cert Region	Federal Federal Tier 3 Evap	
Cert/In-Use Code	Cert		Standard Level		
Test Procedure	CA fuel 3-day evap.				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0

Certification Summary Information Report

Test Group	KHNXV01.5D92		Evaporative/Refueling Family	KHNXR0116VSA	
Evaporative/Refueling Family	KHNXR0116VSA		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Cert		Standard Level		
Test Procedure	California fuel 2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0
Evaporative/Refueling Family	KHNXR0116VSA		Cert Region	Federal	
Cert/In-Use Code	Cert		Standard Level	Federal Tier 3 Evap	
Test Procedure	California Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

Certification Summary Information Report

Test Group	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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	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	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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	KHNXV01.5D92	Evaporative/Refueling Family	KHNXR0116VSA
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