

**Application for Certification - Part 1**

Honda Motor Co., Ltd. Japan

**2018 Model Year**

Durability Group : JHNXHHGNDBE  
 Test Group : JHNXV01.5DL2  
 EVAP/Refueling Family : JHNXR0116VSA  
 Carline Name (Code) : Clarity(01060)  
 Model Name : Clarity Plug-in Hybrid(PLUGIN, TRNG)  
 Vehicle Description  
 - Vehicle Class  
     (Federal) : LDV  
     (California) : PC  
 - Combustion Cycle : Otto Cycle / 4 Stroke (with Hybrid Electric)  
 - Fuel Type : Gasoline / Electric (with Hybrid Electric)  
 - Fuel System : Port Fuel Injection  
 - Catalyst Code : TW-097  
 - Engine Displacement : 1.5 Liter  
 - Engine Configuration : L4

## Applicable Standards

		Exhaust Emissions	
		-----	
(Federal)	: Tier 3 Bin 20		150k Mile
(California)	: LEV III SULEV 20 TZEV		150k Mile
		Evaporative Emissions	
		-----	
(Federal)	: Tier 3		150k Mile
(California)	: LEV III		150k Mile
		Refueling Emissions	
		-----	
(Federal)	: Tier 3		150k Mile
(California)	: LEV III		150k Mile

## Exhaust Durability Process

- DDV Configuration : DJWJ1C-00  
 - Durability Program : Bench Age (HMA-II<sub>RA</sub>)

## EVAP/Refueling Durability Process

- DDV Configuration : N/A. Aged components.  
 - Durability Program : Bench Age

## Emission Data Vehicles

- EDV Configuration	: FTP (E10)	DJWJ1C-01	JHNX10048851
	: HWY (E10)	DJWJ1C-01	JHNX10048852
	: US06 (E10)	DJWJ1C-01	JHNX10048853
	: SC03 (E10)	DJWJ1C-01	JHNX10048854
	: Cold CO (E10)	DJWJ1C-01	JHNX10048855
	: FTP (E0)	EJWJ1C-01	JHNX10048974
	: HWY (E0)	EJWJ1C-01	JHNX10048975
	: US06 (E0)	EJWJ1C-01	JHNX10048842
	: SC03 (E0)	EJWJ1C-01	JHNX10048843
	: Cold CO (E0)	EJWJ1C-01	JHNX10048844
	: 50 deg F	DJWJ1C-01	JHNX10048856
	: Charge-Depleting (UDDS) (E10)	DJWJ1C-00	JHNX10048911
	: Charge-Depleting (HWY) (E10)	DJWJ1C-00	JHNX10048919
	: Charge-Depleting (UDDS) (E0)	EJWJ1C-00	JHNX10048845
	: Charge-Depleting (HWY) (E0)	EJWJ1C-00	JHNX10048815
	: 3D EVAP	EJWJ2C-00	JHNX10049200
	: R/L	EJWJ2C-00	JHNX10049199
	: 2D EVAP	EJWJ2C-00	JHNX10049195
	: CANISTER BLEED	N/A	N/A
	: ORVR	EJWJ2C-00	JHNX10049198

**Response Requested by: September 4, 2017**

For Questions, Contact: Tommy Chang, 734-222-5965

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01.00.00.00 CORRESPONDENCE AND COMMUNICATIONS

Refer to 01.00.00.00<sup>1</sup> of Part 1 common section.

02.00.00.00 DURABILITY GROUP DESCRIPTION

Refer to 02.00.00.00<sup>2</sup> of Part 1 common section.

03.00.00.00 EVAPORATIVE(EVAP)/REFUELING FAMILY DESCRIPTION

Refer to 03.00.00.00<sup>3</sup> of Part 1 common section.

04.00.00.00 DURABILITY PROCEDURE DESCRIPTION

04.01.00.00 Durability demonstration procedures for exhaust emissions

Refer to 04.01.00.00<sup>4</sup> of Part 1 common section and 16.04.01.00<sup>4</sup> of this Part 1 application.

04.02.00.00 Durability demonstration procedures for EVAP/refueling emissions

Refer to 04.02.00.00<sup>5</sup> of Part 1 common section.

04.03.00.00 Deterioration Factor (DF) information

Refer to Certification Summary Information Report or 17.01.00.00<sup>6</sup> of this Part 1 application.

04.04.00.00 Equivalency Factor (EF) information

Catalyst Location		Close Coupled	Under Floor
Equivalency Factor (EF)	ARC/SRC	1.170844	1.404841
	SRC/ARC	0.854084	0.711824
Useful Life Miles		150000	
Reference Temp °C (Tr)		830	
In-Use Correction Factor		1.1	
Catalyst Temp Sensitivity (R)		17500	

<sup>1</sup> CORRESPONDENCE AND COMMUNICATIONS

<sup>2</sup> DURABILITY GROUP DESCRIPTION

<sup>3</sup> EVAPORATIVE(EVAP)/REFUELING FAMILY DESCRIPTION

<sup>4</sup> Durability demonstration procedures for exhaust emissions

<sup>5</sup> Durability demonstration procedures for EVAP/refueling emissions

<sup>6</sup> ARB certification review sheet

## 05.00.00.00 TEST GROUP DESCRIPTION

Test Group Name		JHNXV01.5DL2
Engine Displacement (CID)		91
Number of Cylinders		4
Arrangement of Cylinders		In-line
Vehicle Class	Federal	LDV
	California	PC
Exhaust Emission Standards Class	Federal	Tier 3 BIN 20
	California	LEV III SULEV 20 TZEV
EVAP Emission Standards Class	Federal	Tier 3
	California	LEV III
Applicable Emission Standards		1)

1) Refer to Certification Summary Information Report or 17.01.00.00<sup>1</sup> of this Part 1 application.

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<sup>1</sup> ARB certification review sheet

## 06.00.00.00 TEST VEHICLE DESCRIPTION

For the complete vehicle description, refer to the Vehicle Information (VI) submitted to VERIFY.

Test Purpose	Exh.		
Test Vehicle Type	DDV	EDV	
Test Vehicle Number	DJWJ1C	DJWJ1C	EJWJ1C
Configuration Number	0	0,1	0,1
Emission Control System	WU-TWC, TWC, WR-HO2S, HO2S, SFI, EGR, EGRC		

Test Purpose	EVAP/ORVR	
Test Vehicle Type	DDV	EDV
Test Vehicle Number	N/A	EJWJ2C
Configuration Number	N/A	0

07.00.00.00 TEST RESULTS

(a) EPA CSI

Refer to the attached CSI data on the following pages for details.

(b) GHG CREE

Honda has chosen to follow the requirements in 40 CFR 86.1818-12 (f) (1) Standards applicable to each test group.

**Certification Summary Information Report**

<b>Manufacturer</b>	American Honda Motor Co., Inc.	<b>Manufacturer Code</b>	HNX
<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA
<b>Certificate Number</b>	--	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	--	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	--	<b>Conditional Certificate</b>	--
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	08/23/2017 09:34:05 PM
<b>Model Year</b>	2018		

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA
<b>Test Group Information</b>			
<b>CSI Type</b>	Update for Correction	<b>Running Change Reference Number</b>	--
<b>GHG Exempt Status</b>	Not Exempt		
<b>Drive Sources and Fuel(s)</b>			
<b>Drive Source #1:</b>	Combustion Engine		
	<b>Fuel</b>	<b>Basic Fuel Metering System</b>	<b>Lean Burn Strategy Indicator</b>
	Gasoline	Multipoint/sequential fuel injection	No
<b>Drive Source #2:</b>	Electric Motor		
	<b>Fuel</b>	<b>Basic Fuel Metering System</b>	<b>Lean Burn Strategy Indicator</b>
	Electricity	--	--
<b>Hybrid Indicator</b>	Yes		
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	Yes
<b>Fuel Cell Indicator</b>	No	<b>EPA Vehicle Class</b>	LDV
<b>Federal Clean Fuel Vehicle</b>	No	<b>Federal Clean Fuel Vehicle Standard</b>	--
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Durability Group Name</b>	JHNXHHGNNDDBE	<b>Durability Group Equivalency Factor</b>	1.2
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA, CA
<b>Complies with HD GHG 2b/3 regulations?</b>	No		
<b>Introduction into Commerce Date</b>	--	<b>CAP2000 Conditional Certificate?</b>	N/A
<b>Independent Commercial Importer?</b>	--	<b>Alternative Fuel Converter Certificate?</b>	--
<b>SFTP Federal Composite Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	No
<b>SFTP LEV-III Composite Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	JHNXV01.5DL2
<b>Test Group OBD Compliance Level</b>	Partial - with deficiencies	<b>Number of Test Group OBD Deficiencies</b>	1
<b>OBD Deficiencies Comments</b>	--		
<b>Mfr Test Group Comments</b>	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		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		



## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	07/27/2017 10:15:48 PM				
<b>Integrated ORVR?</b>	No	<b>Fuel(s)</b>	Electricity, Gasoline				
<b>Multiple Fuel Storage</b>	Fuels Stored Separately						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Metal	<b>Fuel Tank Material Description</b>	steel				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	No	<b>Air Intake System Vapor Storage Device Description</b>	--				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	116	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	--				
<b>Mfr Evaporative/Refueling Family Comments</b>	--						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	Yes						
<b>Canister Bleed Test Indicator</b>	No	<b>Applicability of Evaporative Canister Bleed Test</b>	--				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>				
JHNXR0116VSA-C00	50 State	0.02	--				
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
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
<b>Engine Description</b>							
<b>Hybrid Type</b>	IC Engine/Electric Motor	<b>Hybrid Description</b>	--				
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--				
<b>Engine Block Arrangement</b>	Inline	<b>Mfr Engine Block Arrangement Description</b>	--				
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	0W-20				
<b>Number of Cylinders/Rotors</b>	4	<b>Mechanically Variable Compression Ratio Indicator</b>	N				

## Certification Summary Information Report

Test Group	JHNXV01.5DL2				Evaporative/Refueling Family	JHNXR0116VSA					
<b>After Treatment Device(s) (ATD)</b>											
ATD Number	ATD Type	ATD Precious Metal			Substrate Material		Substrate Construction				
1	Three-way catalyst	Paladium + Rhodium			Ceramic		Monolith				
2	Three-way catalyst	Paladium + Rhodium			Ceramic		Monolith				
<b>Mfr After Treatment Device (ATD) Comments</b>											
--											
<b>Direct Ozone Reduction (DOR) Device</b>											
Not Equipped											
<b>Mfr Emission Control Device Comments</b>											
--											
<b>Engine Configuration Number 1</b>											
<b>Engine Displacement (liters)</b>											
1.5											
<b>Engine Rated Horsepower</b>											
103											
<b>Number of Inlet Valves Per Cylinder</b>											
2											
<b>Number of Exhaust Valves Per Cylinder</b>											
2											
<b>Air Aspiration Method</b>											
Naturally Aspirated											
<b>Number of Air Aspiration Devices</b>											
--											
<b>Air Aspiration Device Configuration</b>											
--											
<b>Charge Air Cooler Type</b>											
--											
<b>Air Aspiration Drive Method(s)</b>											
Mechanical											
<b>Cylinder Deactivation</b>											
No											
<b>Cylinder Deactivation Description</b>											
--											
<b>Variable Valve Timing</b>											
Yes											
<b>Variable Valve Timing System Description</b>											
Variable valve Timing (VTC) and lift Electronic Control (VTEC) system is applied.											
<b>Variable Valve Lift?</b>											
Yes											
<b>Variable Valve Lift System Description</b>											
Variable valve Timing (VTC) and lift Electronic Control (VTEC) system is applied.											
<b>Number of Knock Sensors</b>											
1											
<b>Number of Air/Fuel Sensors</b>											
2											
<b>Air/Fuel Sensor # 1 Type</b>											
Heated air fuel											
<b>Air/Fuel Sensor # 1 Description</b>											
--											
<b>Air/Fuel Sensor # 2 Type</b>											
Heated oxygen											
<b>Air/Fuel Sensor # 2 Description</b>											
--											
<b>Mfr Air/Fuel Sensor Comments</b>											
--											
<b>Exhaust Gas Recirculation</b>											
Yes											
<b>Cooled Exhaust Gas Recirculation</b>											
Yes											
<b>EGR Type</b>											
Electronic/Electric											
<b>Exhaust Gas Recirculation Description if 'Other'</b>											
--											
<b>Closed Loop Air Injection System</b>											
No											
<b>Air Injection Type</b>											
Not Applicable											
<b>Air Injection Type if 'Other'</b>											
--											
<b>Mfr Engine Configuration Comments</b>											
--											
<b>Official Test Numbers</b>											
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
Gasoline		JHNX10048851	JHNX10048853	JHNX10048854	JHNX10048855	JHNX10048852	53.9	228.2	51.7	286.1	--
Electricity		JHNX10048851	JHNX10048853	JHNX10048854	JHNX10048855	JHNX10048852	--	--	--	--	--

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>SFTP LEV-III Official Test Numbers</b>			
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>
Gasoline	JHNX10048851	JHNX10048853	JHNX10048854
Electricity	JHNX10048851	JHNX10048853	JHNX10048854
<b>Official Charge Depleting Test Numbers</b>			
<b>Test Group Fuel</b>	<b>UDDS</b>	<b>Highway</b>	
Electricity	JHNX10048911	JHNX10048919	
Gasoline	JHNX10048911	JHNX10048919	
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if Other</b>	--
<b>Battery Type</b>	Lithium Ion	<b>Number of Battery Packs</b>	1
<b>Total Voltage of Battery Packs</b>	311	<b>Battery Energy Capacity</b>	54.6
<b>Battery Specific Energy</b>	141	<b>Battery Charger Type</b>	Both
<b>Number of Capacitors</b>	--	<b>Capacitor Rating (In Farads)</b>	--
<b>Mfr Capacitor Comments</b>	--		
<b>Hydraulic System Description</b>	--		
<b>Regenerative Braking Type</b>	Electrical Regen Brake		
<b>Regenerative Braking Source</b>	Front Wheels	<b>Driver Controlled Regenerative Braking</b>	No
<b>Mfr Regenerative Braking Description</b>	--		
<b>Drive Motor(s)/Generator(s)</b>	1		
<b>Motor/Generator Type 1</b>	AC PMSM	<b>Rated Motor/Generator Power</b>	135
<b>Mfr Fuel Cell Description</b>	--		
<b>Fuel Cell On-Board H2 Storage Capacity (kg)</b>	--	<b>Usable H2 Fill Capacity (kg)</b>	--
<b>Mfr Hybrid Electric/ Electric Vehicle Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA									
<b>Emission Data Vehicle Information</b>												
<b>Vehicle ID / Configuration</b>	DJWJ1C / 0	<b>Manufacturer Vehicle Configuration Number</b>	0									
<b>Original Test Group Name</b>	JHNXV01.5DH2	<b>Original Evaporative/Refueling Family</b>	JHNXR0116VSA									
<b>Original Test Vehicle Model Year</b>	2018											
<b>Vehicle Model</b>												
<b>Represented Test Vehicle Make</b>	HONDA	<b>Represented Test Vehicle Model</b>	Clarity Plug-in Hybrid									
<b>Leak Family Details</b>												
<b>Leak Family Identifier</b>	C00	<b>Leak Family Name</b>	JHNXR0116VSA-C00									
<b>Drive Sources and Fuel System Details</b>												
<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										
<b>Hybrid Indicator</b>	Yes											
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--									
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	Yes									
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if 'Other'</b>	--									
<b>Off-board charge Capable Indicator</b>	Yes											
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	0.993									
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
<b>Odometer Correction Units</b>	Miles											
<b>Engine Code</b>	JWJ1C1	<b>Rated Horsepower</b>	103									
<b>Displacement (liters)</b>	1.5											
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Method, if 'Other'</b>										
<b>Number of Air Aspiration Devices</b>	0	<b>Air Aspiration Device Configuration</b>	--									
<b>Charge Air Cooler Type</b>	N/A	<b>Drive Mode While Testing</b>	2-Wheel Drive, Front									
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)									
<b>Curb Weight (lbs)</b>	4065	<b>Equivalent Test Weight (pounds)</b>	4250									
<b>GVWR (lbs)</b>	--	<b>N/V Ratio</b>	36.2									
<b>Axle Ratio</b>	3.42											
<b>Transmission Type</b>	Continuously Variable	<b># of Transmission Gears</b>	1									
<b>Transmission Lockup</b>	Yes	<b>Creeper Gear</b>	No									
<b>Dynamometer Coefficients:</b>												
<b>Target Coefficients</b>			<b>Set Coefficients</b>									
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
<b>City/Highway/Evap</b>	26.78	0.3123	0.01713	8.63	0.3165	0.01552	11.4					

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Emission Control Device Comments</b>	--		
<b>Manufacturer Test Vehicle Comments</b>	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	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Test #</b>	<b>JHNX10048911</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	06/01/2017	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4756	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>PHEV/EV TEST INFO</b>			
<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	14.601
<b>Charge Depleting Range (Calculated miles)</b>	72.265	<b>Charge Depleting Range (Actual miles)</b>	72.265
<b>Equivalent All Electric Range (miles)</b>	72.265		
<b>Number of Charge Depleting Bags/Phases Conducted</b>	12		
<b>Charge Depleting Bag/Phase</b>			

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	7.459	
2	Average System Voltage	309.17	
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	0.8228067	
12	Drive Trace Energy Economy Rating	-0.1897921	
13	Drive Trace Inertia Work Ratio Rating	0.8207916	
14	Integrated Amp-hours	25.079	
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	25.079	
21	System Start State of Charge Watt-hours	20.796	
22	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
23	Actual Distance Driven (miles)	7.44	
24	Average System Voltage	325.865	
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	1.2159779	
34	Drive Trace Energy Economy Rating	0.109976	
35	Drive Trace Inertia Work Ratio Rating	1.6834664	
36	Integrated Amp-hours	12.409	
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	12.409	
43	System Start State of Charge Watt-hours	8.338	
44	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	7.44	
46	Average System Voltage	306.425	
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	0.940073	
56	Drive Trace Energy Economy Rating	0.1399355	
57	Drive Trace Inertia Work Ratio Rating	1.289803	
58	Integrated Amp-hours	29.42	
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	29.42	
65	System Start State of Charge Watt-hours	25.079	
66	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
67	Actual Distance Driven (miles)	7.451	
68	Average System Voltage	338.61	
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	0.00124	
74	Carbon Monoxide	0.0728	
75	Carbon dioxide	0	
76	Carbon-Related Exhaust Emissions	0	
77	Drive Trace Absolute Speed Change Rating	-0.0422437	
78	Drive Trace Energy Economy Rating	-0.1527737	
79	Drive Trace Inertia Work Ratio Rating	-0.1344995	
80	Integrated Amp-hours	4.306	
81	Manufacturer Fuel Economy	165.9	
82	Nitrogen Oxide	0.0019	
83	Non-methane Hydrocarbon	0.00759	
84	Non-methane organic gas	0.00836	
85	Non-methane organic gases plus Nitrogen Oxides	999.999	
86	System End State of Charge Watt-hours	4.306	
87	System Start State of Charge Watt-hours	0	
88	Total Hydrocarbon	0.0088	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
89	Actual Distance Driven (miles)	7.454	
90	Average System Voltage	295.46	
91	Bag 1 Carbon Dioxide	131.51	
92	Bag 1 Fuel Economy	65.676	
93	Bag 2 Carbon Dioxide	0	
94	Bag 2 Fuel Economy	0	
95	CH4 - Methane	0.00057	
96	Carbon Monoxide	0.0494	
97	Carbon dioxide	131.51	
98	Carbon-Related Exhaust Emissions	132.08	
99	Drive Trace Absolute Speed Change Rating	-0.3023967	
100	Drive Trace Energy Economy Rating	-0.656186	
101	Drive Trace Inertia Work Ratio Rating	-0.6766816	
102	Integrated Amp-hours	41.15	
103	Manufacturer Fuel Economy	0	
104	Nitrogen Oxide	0.0009	
105	Non-methane Hydrocarbon	0.00107	
106	Non-methane organic gas	0.00111	
107	Non-methane organic gases plus Nitrogen Oxides	999.999	
108	System End State of Charge Watt-hours	41.15	
109	System Start State of Charge Watt-hours	41.2	
110	Total Hydrocarbon	0.00166	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
111	Actual Distance Driven (miles)	7.453	
112	Average System Voltage	297.36	
113	Bag 1 Carbon Dioxide	56.41	
114	Bag 1 Fuel Economy	154.263	
115	Bag 2 Carbon Dioxide	0	
116	Bag 2 Fuel Economy	0	
117	CH4 - Methane	0.00232	
118	Carbon Monoxide	0.115	
119	Carbon dioxide	56.41	
120	Carbon-Related Exhaust Emissions	56.23	
121	Drive Trace Absolute Speed Change Rating	-0.1013483	
122	Drive Trace Energy Economy Rating	-0.5375172	
123	Drive Trace Inertia Work Ratio Rating	-0.1981485	
124	Integrated Amp-hours	41.2	
125	Manufacturer Fuel Economy	0	
126	Nitrogen Oxide	0.0035	
127	Non-methane Hydrocarbon	0.01791	
128	Non-methane organic gas	0.01844	
129	Non-methane organic gases plus Nitrogen Oxides	999.999	
130	System End State of Charge Watt-hours	41.2	
131	System Start State of Charge Watt-hours	38.124	
132	Total Hydrocarbon	0.02009	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	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

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
155	Actual Distance Driven (miles)	7.452	
156	Average System Voltage	301.17	
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	-0.3023969	
166	Drive Trace Energy Economy Rating	-0.6561851	
167	Drive Trace Inertia Work Ratio Rating	-0.6766822	
168	Integrated Amp-hours	38.124	
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	38.124	
175	System Start State of Charge Watt-hours	33.723	
176	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
177	Actual Distance Driven (miles)	7.456	
178	Average System Voltage	319.525	
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	0.3549215	
188	Drive Trace Energy Economy Rating	0.3036154	
189	Drive Trace Inertia Work Ratio Rating	0.6254272	
190	Integrated Amp-hours	16.568	
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	16.568	
197	System Start State of Charge Watt-hours	12.409	
198	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
199	Actual Distance Driven (miles)	7.453	
200	Average System Voltage	295.73	
201	Bag 1 Carbon Dioxide	136.39	
202	Bag 1 Fuel Economy	63.745	
203	Bag 2 Carbon Dioxide	0	
204	Bag 2 Fuel Economy	0	
205	CH4 - Methane	0.0005	
206	Carbon Monoxide	0.0454	
207	Carbon dioxide	136.39	
208	Carbon-Related Exhaust Emissions	136.09	
209	Drive Trace Absolute Speed Change Rating	-0.0529926	
210	Drive Trace Energy Economy Rating	-0.3267682	
211	Drive Trace Inertia Work Ratio Rating	-0.1779705	
212	Integrated Amp-hours	41.01	
213	Manufacturer Fuel Economy	0	
214	Nitrogen Oxide	0.0011	
215	Non-methane Hydrocarbon	0.00139	
216	Non-methane organic gas	0.00143	
217	Non-methane organic gases plus Nitrogen Oxides	999.999	
218	System End State of Charge Watt-hours	41.01	
219	System Start State of Charge Watt-hours	41.15	
220	Total Hydrocarbon	0.00224	

## Charge Depleting Bag/Phase



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
221	Actual Distance Driven (miles)	7.457	
222	Average System Voltage	313.64	
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	1.8105629	
232	Drive Trace Energy Economy Rating	1.3046928	
233	Drive Trace Inertia Work Ratio Rating	2.7718432	
234	Integrated Amp-hours	20.796	
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	20.796	
241	System Start State of Charge Watt-hours	16.568	
242	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
243	Actual Distance Driven (miles)	7.449	
244	Average System Voltage	304.14	
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	-0.101349	
254	Drive Trace Energy Economy Rating	-0.537517	
255	Drive Trace Inertia Work Ratio Rating	-0.19815	
256	Integrated Amp-hours	33.723	
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	33.723	
263	System Start State of Charge Watt-hours	29.42	
264	Total Hydrocarbon	0	

**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		JHNXV01.5DL2			Evaporative/Refueling Family					JHNXR0116VSA		
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	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	132	--	--	--	9.5	--	142	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	56	--	--	--	9.5	--	66	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	136	--	--	--	9.5	--	146	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Test #</b>	<b>JHNX10048919</b>	<b>Test Procedure</b>	<b>84 - Charge Depleting Highway</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	06/02/2017	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4846	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>PHEV/EV TEST INFO</b>			
<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	14.485
<b>Charge Depleting Range (Calculated miles)</b>	61.422	<b>Charge Depleting Range (Actual miles)</b>	61.422
<b>Equivalent All Electric Range (miles)</b>	61.422		
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8		
<b>Charge Depleting Bag/Phase</b>			

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	10.26	
2	Average System Voltage	297.12	
3	Bag 1 Carbon Dioxide	140.09	
4	Bag 1 Fuel Economy	61.928	
5	Bag 2 Carbon Dioxide	0	
6	Bag 2 Fuel Economy	0	
7	CH4 - Methane	0.0002	
8	Carbon Monoxide	0.0455	
9	Carbon dioxide	140.09	
10	Carbon-Related Exhaust Emissions	140.08	
11	Drive Trace Absolute Speed Change Rating	6.4974216	
12	Drive Trace Energy Economy Rating	1.242621	
13	Drive Trace Inertia Work Ratio Rating	8.1128367	
14	Integrated Amp-hours	40.811	
15	Manufacturer Fuel Economy	0	
16	Nitrogen Oxide	0.0015	
17	Non-methane Hydrocarbon	0.00014	
18	Non-methane organic gas	0.00015	
19	Non-methane organic gases plus Nitrogen Oxides	999.999	
20	System End State of Charge Watt-hours	40.811	
21	System Start State of Charge Watt-hours	40.501	
22	Total Hydrocarbon	0.00033	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	23	Actual Distance Driven (miles)	10.272
	24	Average System Voltage	300.29
	25	Bag 1 Carbon Dioxide	7.79
	26	Bag 1 Fuel Economy	1067.71
	27	Bag 2 Carbon Dioxide	0
	28	Bag 2 Fuel Economy	0
	29	CH4 - Methane	0.0013
	30	Carbon Monoxide	0.0598
	31	Carbon dioxide	7.79
	32	Carbon-Related Exhaust Emissions	8.12
	33	Drive Trace Absolute Speed Change Rating	6.0876324
	34	Drive Trace Energy Economy Rating	1.2826028
	35	Drive Trace Inertia Work Ratio Rating	7.347695
	36	Integrated Amp-hours	40.501
	37	Manufacturer Fuel Economy	0
	38	Nitrogen Oxide	0.0024
	39	Non-methane Hydrocarbon	0.00852
	40	Non-methane organic gas	0.00877
	41	Non-methane organic gases plus Nitrogen Oxides	999.999
	42	System End State of Charge Watt-hours	40.501
	43	System Start State of Charge Watt-hours	33.64
	44	Total Hydrocarbon	0.00974

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	10.262	
46	Average System Voltage	309.36	
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	6.4579859	
56	Drive Trace Energy Economy Rating	1.9526842	
57	Drive Trace Inertia Work Ratio Rating	7.5976549	
58	Integrated Amp-hours	26.67	
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	26.67	
65	System Start State of Charge Watt-hours	19.807	
66	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
67	Actual Distance Driven (miles)	10.254	
68	Average System Voltage	296.58	
69	Bag 1 Carbon Dioxide	140.65	
70	Bag 1 Fuel Economy	61.489	
71	Bag 2 Carbon Dioxide	0	
72	Bag 2 Fuel Economy	0	
73	CH4 - Methane	0.00024	
74	Carbon Monoxide	0.0524	
75	Carbon dioxide	140.65	
76	Carbon-Related Exhaust Emissions	141.08	
77	Drive Trace Absolute Speed Change Rating	6.9940326	
78	Drive Trace Energy Economy Rating	1.4587853	
79	Drive Trace Inertia Work Ratio Rating	8.5609609	
80	Integrated Amp-hours	40.875	
81	Manufacturer Fuel Economy	0	
82	Nitrogen Oxide	0	
83	Non-methane Hydrocarbon	0.00019	
84	Non-methane organic gas	0.0002	
85	Non-methane organic gases plus Nitrogen Oxides	999.999	
86	System End State of Charge Watt-hours	40.875	
87	System Start State of Charge Watt-hours	40.811	
88	Total Hydrocarbon	0.00042	

## Charge Depleting Bag/Phase



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
89	Actual Distance Driven (miles)	10.251	
90	Average System Voltage	304.94	
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	5.7895639	
100	Drive Trace Energy Economy Rating	1.1021988	
101	Drive Trace Inertia Work Ratio Rating	7.1774282	
102	Integrated Amp-hours	33.64	
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	33.64	
109	System Start State of Charge Watt-hours	26.67	
110	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
111	Actual Distance Driven (miles)	10.276	
112	Average System Voltage	326.89	
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	8.4308039	
122	Drive Trace Energy Economy Rating	1.7765563	
123	Drive Trace Inertia Work Ratio Rating	10.4380818	
124	Integrated Amp-hours	13.105	
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	13.105	
131	System Start State of Charge Watt-hours	6.565	
132	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	133	Actual Distance Driven (miles)	10.264
	134	Average System Voltage	317.03
	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	7.8224801
	144	Drive Trace Energy Economy Rating	1.4647556
	145	Drive Trace Inertia Work Ratio Rating	9.32478
	146	Integrated Amp-hours	19.807
	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	19.807
	153	System Start State of Charge Watt-hours	13.105
	154	Total Hydrocarbon	0

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	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		JHNXV01.5DL2			Evaporative/Refueling Family					JHNXR0116VSA		
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	140	--	--	--	9.5	--	150	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	8	--	--	--	9.5	--	18	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	141	--	--	--	9.5	--	150	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA									
<b>Emission Data Vehicle Information</b>												
<b>Vehicle ID / Configuration</b>	DJWJ1C / 1	<b>Manufacturer Vehicle Configuration Number</b>	1									
<b>Original Test Group Name</b>	JHNXV01.5DH2	<b>Original Evaporative/Refueling Family</b>	JHNXR0116VSA									
<b>Original Test Vehicle Model Year</b>	2018											
<b>Vehicle Model</b>												
<b>Represented Test Vehicle Make</b>	HONDA	<b>Represented Test Vehicle Model</b>	Clarity Plug-in Hybrid									
<b>Leak Family Details</b>												
<b>Leak Family Identifier</b>	C00	<b>Leak Family Name</b>	JHNXR0116VSA-C00									
<b>Drive Sources and Fuel System Details</b>												
<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										
<b>Hybrid Indicator</b>	Yes											
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--									
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	Yes									
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if 'Other'</b>	--									
<b>Off-board charge Capable Indicator</b>	Yes											
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	0.993									
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
<b>Odometer Correction Units</b>	Miles											
<b>Engine Code</b>	JWJ1C1	<b>Rated Horsepower</b>	103									
<b>Displacement (liters)</b>	1.5											
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Method, if 'Other'</b>										
<b>Number of Air Aspiration Devices</b>	0	<b>Air Aspiration Device Configuration</b>	--									
<b>Charge Air Cooler Type</b>	N/A	<b>Drive Mode While Testing</b>	2-Wheel Drive, Front									
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)									
<b>Curb Weight (lbs)</b>	4065	<b>Equivalent Test Weight (pounds)</b>	4250									
<b>GVWR (lbs)</b>	--	<b>N/V Ratio</b>	36.2									
<b>Axle Ratio</b>	3.42											
<b>Transmission Type</b>	Continuously Variable	<b># of Transmission Gears</b>	1									
<b>Transmission Lockup</b>	Yes	<b>Creeper Gear</b>	No									

## Certification Summary Information Report

Test Group		JHNXV01.5DL2			Evaporative/Refueling Family			JHNR0116VSA
<b>Dynamometer Coefficients:</b>								
		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	
<b>Emission Control Device Comments</b>	--							
<b>Manufacturer Test Vehicle Comments</b>	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

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048851</b>	<b>Test Procedure</b>	<b>25 - California fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	05/30/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH58	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4687	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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)	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		JHNXV01.5DL2			Evaporative/Refueling Family					JHNR0116VSA		
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	0.10	--	--	--	0.00	--	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	--	0.000	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	--	--	--	0.0030	--	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	--	--	--	9.5	--	1008	--	--
CA	150,000 miles	California LEV-III SULEV20	CO	0.10	--	--	--	0.00	--	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	--	0.000	0.004	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0069	--	1.1	--	0.0019	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0093	--	1.1	--	--	--	0.014	0.020	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX-COMP	0.0107	--	1.1	--	--	--	0.011	0.050	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0024	--	--	--	0.0030	--	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

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048855</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)
<b>Test Date</b>	06/06/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QAWH52	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4951	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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		JHNXV01.5DL2			Evaporative/Refueling Family				JHNR0116VSA			
		<b>Test Result Name</b>		<b>Unrounded Test Result</b>			<b>Verify Calculated CO2</b>					
		Carbon dioxide		190.53			--					
<b>Manufacturer Test Comments</b>		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	--	--	--	0.00	--	0.2	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.03	--	--	--	0.00	--	0.0	0.2	Pass
CA	50,000 miles	California LEV-III SULEV20	CO	0.25	--	--	--	0.00	--	0.2	10.0	Pass

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048856</b>	<b>Test Procedure</b>	<b>51 - CA fuel 50 Deg(F) exhaust test</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	06/07/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH58	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4974	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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)	204.79	--
FE BAG 1 (Bag 1 Fuel Economy)	42.2	42.2
CO2 BAG 2 (Bag 2 Carbon Dioxide)	133.07	--
FE BAG 2 (Bag 2 Fuel Economy)	65.1	65.1
CO2 BAG 3 (Bag 3 Carbon Dioxide)	167.59	--
FE BAG 3 (Bag 3 Fuel Economy)	51.7	51.7
CO2 BAG 4 (Bag 4 Carbon Dioxide)	120.39	--
FE BAG 4 (Bag 4 Fuel Economy)	72	72
METHANE (CH4 - Methane)	0.00177	--
CO (Carbon Monoxide)	0.084	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.7247489	--
DT-EER (Drive Trace Energy Economy Rating)	1.1120371	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.4281111	--
HCHO (Formaldehyde)	0.00052	--
MFR FE (Manufacturer Fuel Economy)	56.2	56.2
NOX (Nitrogen Oxide)	0.0022	--
HC-NM (Non-methane Hydrocarbon)	0.01038	--
NMOG (Non-methane organic gas)	0.01142	--
HC-TOTAL (Total Hydrocarbon)	0.01178	--

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>
Carbon-Related Exhaust Emissions	153.86	--

<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
Carbon dioxide	153.69	--

**Manufacturer Test Comments**

NMOG/NMHC FACTOR(1.100561) IS APPLIED. MFR 4K TEST (50 degF). SOC = -0.63

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-III SULEV20	CO	0.08	--	--	--	--	--	0.1	1.0	Pass
CA	4,000 miles	California LEV-III SULEV20	HCHO	0.0005	--	--	--	--	--	0.000	0.008	Pass
CA	4,000 miles	California LEV-III SULEV20	NMOG	0.0114	--	1.1	--	--	--	0.011	999.999	Pass
CA	4,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0136	--	1.1	--	--	--	0.014	0.040	Pass
CA	4,000 miles	California LEV-III SULEV20	NOX	0.0022	--	--	--	--	--	0.002	999.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048852</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	05/30/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH58	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4702	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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		JHNXV01.5DL2			Evaporative/Refueling Family					JHNXR0116VSA		
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	--	--	--	9.5	--	1008	--	--
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	0.0000	--	--	--	0.0030	--	0.003	999.999	Pass
CA	120,000 miles	California LEV-III SULEV20	CREE	999	--	--	--	9.5	--	1008	--	--
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	0.0000	--	--	--	0.0030	--	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

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048853</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	05/30/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH58	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4725	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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		JHNXV01.5DL2		Evaporative/Refueling Family				JHNXR0116VSA				
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	--	--	--	0.0030	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0010	--	--	--	0.0001	--	0.001	0.010	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	--	--	--	0.0030	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	PM	0.0010	--	--	--	0.0001	--	0.001	0.010	Pass

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048854</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	05/30/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH58	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4741	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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		JHNXV01.5DL2				Evaporative/Refueling Family				JHNXR0116VSA		
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	--	--	--	0.0030	--	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	--	--	--	0.0030	--	0.006	999.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA									
<b>Emission Data Vehicle Information</b>												
<b>Vehicle ID / Configuration</b>	EJWJ1C / 0	<b>Manufacturer Vehicle Configuration Number</b>	0									
<b>Original Test Group Name</b>	JHNXV01.5DH2	<b>Original Evaporative/Refueling Family</b>	JHNXR0116VSA									
<b>Original Test Vehicle Model Year</b>	2018											
<b>Vehicle Model</b>												
<b>Represented Test Vehicle Make</b>	HONDA	<b>Represented Test Vehicle Model</b>	Clarity Plug-in Hybrid									
<b>Leak Family Details</b>												
<b>Leak Family Identifier</b>	C00	<b>Leak Family Name</b>	JHNXR0116VSA-C00									
<b>Drive Sources and Fuel System Details</b>												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
<b>Hybrid Indicator</b>	Yes											
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--									
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	Yes									
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if 'Other'</b>	--									
<b>Off-board charge Capable Indicator</b>	Yes											
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	0.994									
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
<b>Odometer Correction Units</b>	Miles											
<b>Engine Code</b>	JWJ1C1	<b>Rated Horsepower</b>	103									
<b>Displacement (liters)</b>	1.5											
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Method, if 'Other'</b>										
<b>Number of Air Aspiration Devices</b>	0	<b>Air Aspiration Device Configuration</b>	--									
<b>Charge Air Cooler Type</b>	N/A	<b>Drive Mode While Testing</b>	2-Wheel Drive, Front									
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)									
<b>Curb Weight (lbs)</b>	4065	<b>Equivalent Test Weight (pounds)</b>	4250									
<b>GVWR (lbs)</b>	--	<b>N/V Ratio</b>	36.2									
<b>Axle Ratio</b>	3.42											
<b>Transmission Type</b>	Continuously Variable	<b># of Transmission Gears</b>	1									
<b>Transmission Lockup</b>	Yes	<b>Creeper Gear</b>	No									
<b>Dynamometer Coefficients:</b>												
<b>Target Coefficients</b>			<b>Set Coefficients</b>									
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
<b>City/Highway/Evap</b>	26.78	0.3123	0.01713	8.04	0.2919	0.01599	11.4					

### Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Emission Control Device Comments</b>	--		
<b>Manufacturer Test Vehicle Comments</b>	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	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Test #</b>	<b>JHNX10050183</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	07/26/2017	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5190	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>PHEV/EV TEST INFO</b>			
<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	14.502
<b>Charge Depleting Range (Calculated miles)</b>	72.721	<b>Charge Depleting Range (Actual miles)</b>	72.721
<b>Equivalent All Electric Range (miles)</b>	72.721		
<b>Number of Charge Depleting Bags/Phases Conducted</b>	12		
<b>Charge Depleting Bag/Phase</b>			

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	1	Actual Distance Driven (miles)	7.475
	2	Average System Voltage	297.15
	3	Bag 1 Carbon Dioxide	44.376
	4	Bag 1 Fuel Economy	199.756
	5	Bag 2 Carbon Dioxide	0
	6	Bag 2 Fuel Economy	0
	7	CH4 - Methane	0.002
	8	Carbon Monoxide	0.133
	9	Carbon dioxide	44.376
	10	Carbon-Related Exhaust Emissions	44.25
	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	41.217
	15	Manufacturer Fuel Economy	0
	16	Nitrogen Oxide	0.005
	17	Non-methane Hydrocarbon	0.014
	18	Non-methane organic gas	0.01456
	19	Non-methane organic gases plus Nitrogen Oxides	999.999
	20	System End State of Charge Watt-hours	41.217
	21	System Start State of Charge Watt-hours	37.97
	22	Total Hydrocarbon	0.016

Charge Depleting Bag/Phase



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
23	Actual Distance Driven (miles)	7.453	
24	Average System Voltage	309.185	
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	25.007	
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	25.007	
43	System Start State of Charge Watt-hours	20.759	
44	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	7.467	
46	Average System Voltage	319.477	
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	16.542	
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	16.542	
65	System Start State of Charge Watt-hours	12.4	
66	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	67	Actual Distance Driven (miles)	7.439
	68	Average System Voltage	295.18
	69	Bag 1 Carbon Dioxide	138.92
	70	Bag 1 Fuel Economy	64.142
	71	Bag 2 Carbon Dioxide	0
	72	Bag 2 Fuel Economy	0
	73	CH4 - Methane	0.001
	74	Carbon Monoxide	0.052
	75	Carbon dioxide	138.92
	76	Carbon-Related Exhaust Emissions	139.08
	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	41.06
	81	Manufacturer Fuel Economy	0
	82	Nitrogen Oxide	0.002
	83	Non-methane Hydrocarbon	0.001
	84	Non-methane organic gas	0.00104
	85	Non-methane organic gases plus Nitrogen Oxides	999.999
	86	System End State of Charge Watt-hours	41.06
	87	System Start State of Charge Watt-hours	41.217
	88	Total Hydrocarbon	0.002

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	89	Actual Distance Driven (miles)	7.455
	90	Average System Voltage	331.8
	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	8.331
	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	8.331
	109	System Start State of Charge Watt-hours	4.323
	110	Total Hydrocarbon	0

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
111	Actual Distance Driven (miles)	7.454	
112	Average System Voltage	306.468	
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	29.297	
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	29.297	
131	System Start State of Charge Watt-hours	29.297	
132	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
133	Actual Distance Driven (miles)	7.466	
134	Average System Voltage	295.557	
135	Bag 1 Carbon Dioxide	136.902	
136	Bag 1 Fuel Economy	65.11	
137	Bag 2 Carbon Dioxide	0	
138	Bag 2 Fuel Economy	0	
139	CH4 - Methane	0.001	
140	Carbon Monoxide	0.022	
141	Carbon dioxide	136.902	
142	Carbon-Related Exhaust Emissions	137.03	
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	40.958	
147	Manufacturer Fuel Economy	0	
148	Nitrogen Oxide	0.002	
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	40.958	
153	System Start State of Charge Watt-hours	41.06	
154	Total Hydrocarbon	0.001	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	155	Actual Distance Driven (miles)	7.453
	156	Average System Voltage	338.565
	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	0.00151
	162	Carbon Monoxide	0.0868
	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	4.323
	169	Manufacturer Fuel Economy	167.9
	170	Nitrogen Oxide	0.003
	171	Non-methane Hydrocarbon	0.0062
	172	Non-methane organic gas	0.0065
	173	Non-methane organic gases plus Nitrogen Oxides	999.999
	174	System End State of Charge Watt-hours	4.323
	175	System Start State of Charge Watt-hours	0
	176	Total Hydrocarbon	0.00767

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
177	Actual Distance Driven (miles)	7.458	
178	Average System Voltage	301.16	
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	37.97	
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	37.97	
197	System Start State of Charge Watt-hours	33.615	
198	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	199	Actual Distance Driven (miles)	7.463
	200	Average System Voltage	325.872
	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	12.4
	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	12.4
	219	System Start State of Charge Watt-hours	8.331
	220	Total Hydrocarbon	0

**Charge Depleting Bag/Phase**

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	221	Actual Distance Driven (miles)	7.467
	222	Average System Voltage	304.168
	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
	232	Drive Trace Energy Economy Rating	0
	233	Drive Trace Inertia Work Ratio Rating	0
	234	Integrated Amp-hours	33.615
	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	33.615
	241	System Start State of Charge Watt-hours	29.297
	242	Total Hydrocarbon	0

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
243	Actual Distance Driven (miles)	7.478	
244	Average System Voltage	313.542	
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	20.759	
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	20.759	
263	System Start State of Charge Watt-hours	16.542	
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		JHNXV01.5DL2			Evaporative/Refueling Family					JHNR0116VSA		
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	44	--	--	--	9.5	--	54	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	139	--	--	--	9.5	--	148	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	137	--	--	--	9.5	--	146	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Test #</b>	<b>JHNX10050184</b>	<b>Test Procedure</b>	<b>84 - Charge Depleting Highway</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	07/27/2017	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5280	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>PHEV/EV TEST INFO</b>			
<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	14.541
<b>Charge Depleting Range (Calculated miles)</b>	63.496	<b>Charge Depleting Range (Actual miles)</b>	63.496
<b>Equivalent All Electric Range (miles)</b>	63.496		
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8		
<b>Charge Depleting Bag/Phase</b>			

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	10.247	
2	Average System Voltage	295.244	
3	Bag 1 Carbon Dioxide	148.037	
4	Bag 1 Fuel Economy	60.227	
5	Bag 2 Carbon Dioxide	0	
6	Bag 2 Fuel Economy	0	
7	CH4 - Methane	0	
8	Carbon Monoxide	0.003	
9	Carbon dioxide	148.037	
10	Carbon-Related Exhaust Emissions	148	
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	41.066	
15	Manufacturer Fuel Economy	0	
16	Nitrogen Oxide	0.002	
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	41.066	
21	System Start State of Charge Watt-hours	41.29	
22	Total Hydrocarbon	0	

Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
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	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
45	Actual Distance Driven (miles)	10.246	
46	Average System Voltage	317.249	
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	19.447	
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	19.447	
65	System Start State of Charge Watt-hours	12.855	
66	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
67	Actual Distance Driven (miles)	10.243	
68	Average System Voltage	305.094	
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	33.04	
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	33.04	
87	System Start State of Charge Watt-hours	26.186	
88	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
89	Actual Distance Driven (miles)	10.253	
90	Average System Voltage	337.065	
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	6.455	
103	Manufacturer Fuel Economy	146.4	
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	6.455	
109	System Start State of Charge Watt-hours	0	
110	Total Hydrocarbon	0	

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	111	Actual Distance Driven (miles)	10.245
	112	Average System Voltage	326.95
	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	12.855
	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	12.855
	131	System Start State of Charge Watt-hours	6.455
	132	Total Hydrocarbon	0

## Charge Depleting Bag/Phase

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
	<b>Charge Depleting Bag/Phase #</b>	<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
	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	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
155	Actual Distance Driven (miles)	10.235	
156	Average System Voltage	309.514	
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	26.186	
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	26.186	
175	System Start State of Charge Watt-hours	19.447	
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		JHNXV01.5DL2			Evaporative/Refueling Family					JHNXR0116VSA		
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	148	--	--	--	9.5	--	158	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	121	--	--	--	9.5	--	130	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	0	--	--	--	9.5	--	10	--	--



## Certification Summary Information Report

Test Group		JHNXV01.5DL2			Evaporative/Refueling Family			JHNR0116VSA
<b>Dynamometer Coefficients:</b>								
		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	
<b>Emission Control Device Comments</b>	--							
<b>Manufacturer Test Vehicle Comments</b>	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

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048815</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	26 - Cold CO Regular (Tier 2)
<b>Test Date</b>	06/01/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QTYH51	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4480	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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
CO2 BAG 4 (Bag 4 Carbon Dioxide)	193.33	--
FE BAG 4 (Bag 4 Fuel Economy)	45.9	45.9
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	--

## Certification Summary Information Report

Test Group		JHNXV01.5DL2		Evaporative/Refueling Family						JHNXR0116VSA		
Manufacturer Test Comments		MFR 4K TEST (COLD FTP), SOC = -0.16										
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	--	--	--	0.00	--	0.3	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.03	--	--	--	0.00	--	0.0	0.2	Pass
CA	50,000 miles	California LEV-III SULEV20	CO	0.31	--	--	--	0.00	--	0.3	10.0	Pass

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA
<b>Test #</b>	<b>JHNX91003620</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	07/25/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25842	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5168	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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

<b>Test Group</b>	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
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/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	144	--	--	--	9.5	--	154	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.11	--	--	--	0.00	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	METHANE	0.0016	--	--	--	0.0008	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0067	--	1.04	--	0.0019	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0110	--	1.04	--	--	--	0.016	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0043	--	--	--	0.0030	--	0.007	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

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX91003613</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	07/20/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25842	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5118	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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		JHNXV01.5DL2			Evaporative/Refueling Family					JHNXR0116VSA		
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	--	--	--	9.5	--	154	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0000	--	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	--	--	--	0.0030	--	0.003	999.999	Pass
CA	120,000 miles	California LEV-III SULEV20	CREE	144	--	--	--	9.5	--	154	--	--
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0000	--	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	--	--	--	0.0030	--	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

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX91003615</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	07/20/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	25842	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5144	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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		JHNXV01.5DL2				Evaporative/Refueling Family				JHNXR0116VSA		
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	--	--	--	0.0030	--	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	--	--	--	0.0030	--	0.013	999.999	Pass



## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
<b>Test #</b>	<b>JHNX10048845</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	05/30/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	2HRH51	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4396	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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		JHNXV01.5DL2				Evaporative/Refueling Family				JHNXR0116VSA		
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	0.0010	--	1.03	--	0.0019	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0030	--	--	--	0.0030	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0010	--	1.03	--	0.0019	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0030	--	--	--	0.0030	--	0.006	999.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2		<b>Evaporative/Refueling Family</b>	JHNXR0116VSA											
<b>Emission Data Vehicle Information</b>															
<b>Vehicle ID / Configuration</b>	EJWJ2C / 0		<b>Manufacturer Vehicle Configuration Number</b>	0											
<b>Original Test Group Name</b>	JHNXV01.5DH2		<b>Original Evaporative/Refueling Family</b>	JHNXR0116VSA											
<b>Original Test Vehicle Model Year</b>	2018														
<b>Vehicle Model</b>															
<b>Represented Test Vehicle Make</b>	HONDA		<b>Represented Test Vehicle Model</b>	Clarity Plug-in Hybrid											
<b>Leak Family Details</b>															
<b>Leak Family Identifier</b>	C00		<b>Leak Family Name</b>	JHNXR0116VSA-C00											
<b>Drive Sources and Fuel System Details</b>															
<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													
<b>Hybrid Indicator</b>	Yes		<b>Multiple Fuel Combustion</b>	--											
<b>Multiple Fuel Storage</b>	--		<b>Rechargeable Energy Storage System Indicator</b>	Yes											
<b>Fuel Cell Indicator</b>	No		<b>Rechargeable Energy Storage System, if 'Other'</b>	--											
<b>Rechargeable Energy Storage System</b>	Battery(s)		<b>Odometer Correction Factor</b>	0.992											
<b>Off-board charge Capable Indicator</b>	Yes		<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
<b>Odometer Correction -- Initial</b>	0		<b>Odometer Correction Units</b>	Miles											
<b>Engine Code</b>	JWJ1C1		<b>Rated Horsepower</b>	103											
<b>Displacement (liters)</b>	1.5		<b>Air Aspiration Method, if 'Other'</b>												
<b>Air Aspiration Method</b>	Naturally Aspirated		<b>Air Aspiration Device Configuration</b>	--											
<b>Number of Air Aspiration Devices</b>	0		<b>Drive Mode While Testing</b>	2-Wheel Drive, Front											
<b>Charge Air Cooler Type</b>	N/A		<b>Aged Emission Components</b>	4,000 (mi)											
<b>Shift Indicator Light Usage</b>	Not equipped		<b>Equivalent Test Weight (pounds)</b>	4250											
<b>Curb Weight (lbs)</b>	4065		<b>N/V Ratio</b>	36.2											
<b>GVWR (lbs)</b>	--		<b># of Transmission Gears</b>	1											
<b>Axle Ratio</b>	3.42		<b>Creeper Gear</b>	No											
<b>Transmission Type</b>	Continuously Variable														
<b>Transmission Lockup</b>	Yes														
<b>Dynamometer Coefficients:</b>															
<b>Target Coefficients</b>			<b>Set Coefficients</b>			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>									
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>		<b>C (lbf/mph**2)</b>								
<b>City/Highway/Evap</b>	26.78	0.3123	0.01713	10.04	0.2551	0.01678	11.4								

### Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
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**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.

<b>Test #</b>	JHNX10049195	<b>Test Procedure</b>	27 - California fuel 2-day evap
<b>Exhaust Test # for this Evap Test</b>	JHNX10049193	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	06/01/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH56	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3222	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.0000	0.131	0.300	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1313	0.0000	0.131	0.300	Pass

**Certification Summary Information Report**

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA
<b>Test #</b>	<b>JHNX10049200</b>	<b>Test Procedure</b>	<b>38 - CA fuel 3-day evap.</b>
<b>Exhaust Test # for this Evap Test</b>	JHNX10049194	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	06/15/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH56	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3265	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.0000	0.143	0.300	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1431	0.0000	0.143	0.300	Pass

### Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
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<b>Test #</b>	JHNX10049198	<b>Test Procedure</b>	37 - California Fuel Running Loss
<b>Exhaust Test # for this Evap Test</b>	JHNX10049194	<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline
<b>Test Date</b>	06/15/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QGLH56	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3248	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

### Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA
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<b>Test #</b>	<b>JHNX10049199</b>	<b>Test Procedure</b>	<b>24 - Federal fuel refueling test (ORVR)</b>
<b>Exhaust Test # for this Evap Test</b>	JHNX10049193	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	06/23/2017	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	QATH51	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Tochigi Emission Laboratory (In Quality Innovation Center Tochigi)		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	3306	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0.010	0.0000	0.01	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.010	0.000	0.01	0.20	Pass

## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>QGLH56</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline	<b>Fuel Batch Calibration Date</b>	06/08/2017
<b>Fuel Batch Calibration Effective Date</b>	06/08/2017	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.75
<b>Fuel Ethanol Volume Percent (%)</b>	9.9	<b>Fuel Net Heating Value (BTU / lb)</b>	17992
<b>Fuel Blend Carbon Weight Fraction</b>	0.828	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>25842</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	08/10/2016
<b>Fuel Batch Calibration Effective Date</b>	08/10/2016	<b>Fuel Batch Calibration Ineffective Date</b>	08/10/2036
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.743
<b>Fuel Ethanol Volume Percent (%)</b>	--	<b>Fuel Net Heating Value (BTU / lb)</b>	18443
<b>Fuel Blend Carbon Weight Fraction</b>	0.866	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>QAWH52</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)	<b>Fuel Batch Calibration Date</b>	06/08/2017
<b>Fuel Batch Calibration Effective Date</b>	06/08/2017	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.738
<b>Fuel Ethanol Volume Percent (%)</b>	9.7	<b>Fuel Net Heating Value (BTU / lb)</b>	17913
<b>Fuel Blend Carbon Weight Fraction</b>	0.823	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>QGLH58</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	46 - CARB LEV3 E10 Regular Gasoline	<b>Fuel Batch Calibration Date</b>	06/08/2017
<b>Fuel Batch Calibration Effective Date</b>	06/08/2017	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.75
<b>Fuel Ethanol Volume Percent (%)</b>	9.9	<b>Fuel Net Heating Value (BTU / lb)</b>	17992
<b>Fuel Blend Carbon Weight Fraction</b>	0.828	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>2HRH51</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	05/10/2017
<b>Fuel Batch Calibration Effective Date</b>	05/15/2017	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNR0116VSA
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	--
<b>Fuel Batch ID</b>	<b>QATH51</b>	<b>Fuel Calibration Number</b>	<b>1</b>
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	--
<b>Fuel Batch ID</b>	<b>QTYH51</b>	<b>Fuel Calibration Number</b>	<b>1</b>
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	--

**Certification Summary Information Report**

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNR0116VSA
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**Consolidated List of Standards**

**Exhaust Standards**

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	Federal Tier 3 Bin 20
<b>Fuel</b>	Electricity	<b>Test Procedure</b>	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	--	--	--	--	--	--	9.5	999

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	California LEV-III SULEV20
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	--	--	--	0.0030	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.010

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	Federal Tier 3 Bin 20
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	--	--	--	0.00	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.2

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2				<b>Evaporative/Refueling Family</b>			JHNR0116VSA	
<b>Cert Region</b>	Federal				<b>Cert/In-Use Code</b>			Cert	
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			Federal Tier 3 Bin 20	
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			HWFE	
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
120,000 miles	CREE	--	--	--	--	--	--	9.5	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	--	--	--	--	--	--	0.0030	999.999

<b>Cert Region</b>	California + CAA Section 177 states				<b>Cert/In-Use Code</b>			Cert	
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			California LEV-III SULEV20	
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			California fuel 2-day exhaust (w/can load)	
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
120,000 miles	CREE	--	--	--	--	--	--	9.5	999
150,000 miles	CO	--	--	--	--	--	--	0.00	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0019	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	1.1	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0030	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003

<b>Cert Region</b>	California + CAA Section 177 states				<b>Cert/In-Use Code</b>			Cert	
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			California LEV-III SULEV20	
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			HWFE	
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
120,000 miles	CREE	--	--	--	--	--	--	9.5	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	--	--	--	--	--	--	0.0030	999.999

## Certification Summary Information Report

Test Group		JHNXV01.5DL2			Evaporative/Refueling Family			JHNXR0116VSA		
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			CA fuel 50 Deg(F) exhaust test		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
4,000 miles	CO	--	--	--	--	--	--	--	1.0	
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008	
4,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999	
4,000 miles	NMOG+NOX	--	--	1.1	--	--	1	--	0.040	
4,000 miles	NOX	--	--	--	--	--	--	--	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	--	--	--	--	--	--	0.00	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	--	--	--	--	--	--	0.0030	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003	

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2				<b>Evaporative/Refueling Family</b>			JHNXR0116VSA		
<b>Cert Region</b>	Federal				<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			Federal Tier 3 Bin 20		
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			Federal fuel 2-day exhaust (w/can load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
120,000 miles	CREE	--	--	--	--	--	--	9.5	999	
150,000 miles	CO	--	--	--	--	--	--	0.00	1.0	
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004	
150,000 miles	METHANE	--	--	--	--	--	--	0.0008	0.030	
150,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010	
150,000 miles	NMOG	--	--	1.04	--	--	--	0.0019	999.999	
150,000 miles	NMOG+NOX	--	--	1.04	--	--	1	--	0.020	
150,000 miles	NOX	--	--	--	--	--	--	0.0030	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003	

<b>Cert Region</b>	Federal				<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			Federal Tier 3 Bin 20		
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0030	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.010	

<b>Cert Region</b>	Federal				<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			Federal Tier 3 Bin 20		
<b>Fuel</b>	Electricity				<b>Test Procedure</b>			Charge Depleting Highway		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
120,000 miles	CREE	--	--	--	--	--	--	9.5	999	

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2				<b>Evaporative/Refueling Family</b>			JHNXR0116VSA		
<b>Cert Region</b>	Federal				<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			Federal Tier 3 Bin 20		
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0030	999.999	

<b>Cert Region</b>	California + CAA Section 177 states				<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			California LEV-III SULEV20		
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0019	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0030	999.999	

<b>Cert Region</b>	California + CAA Section 177 states				<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car				<b>Standard Level</b>			California LEV-III SULEV20		
<b>Fuel</b>	Gasoline				<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.00	10.0	

**Evaporative/Refueling Standards**

<b>Evaporative/Refueling Family</b>	JHNXR0116VSA				<b>Cert Region</b>			Federal		
<b>Cert/In-Use Code</b>	Cert				<b>Standard Level</b>			Federal Tier 3 Evap		
<b>Test Procedure</b>	California Fuel Running Loss									
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>					
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000					

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2	<b>Evaporative/Refueling Family</b>	JHNXR0116VSA		
<b>Evaporative/Refueling Family</b>	JHNXR0116VSA	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	CA fuel 3-day evap.				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
<b>Evaporative/Refueling Family</b>	JHNXR0116VSA	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	California fuel 2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
<b>Evaporative/Refueling Family</b>	JHNXR0116VSA	<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	CA fuel 3-day evap.				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
<b>Evaporative/Refueling Family</b>	JHNXR0116VSA	<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	California Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000
<b>Evaporative/Refueling Family</b>	JHNXR0116VSA	<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Cert	<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	California fuel 2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000

## Certification Summary Information Report

<b>Test Group</b>	JHNXV01.5DL2		<b>Evaporative/Refueling Family</b>	JHNXR0116VSA	
<b>Evaporative/Refueling Family</b>	JHNXR0116VSA		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000
<b>Evaporative/Refueling Family</b>	JHNXR0116VSA		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.0000



## Certification Summary Information Report

Test Group	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
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
<b>Certification Region</b>			
CA	California + CAA Section 177 states	FA	Federal
<b>Exhaust Emission Standard Level</b>			
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	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
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
<b>Transmission Type Code</b>			
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)
<b>Drive System Code</b>			
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	JHNXV01.5DL2	Evaporative/Refueling Family	JHNXR0116VSA
<b>Additional Terms and Acronyms</b>			
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

08.00.00.00 WAIVER STATEMENTS

Refer to 08.00.00.00<sup>1</sup> of Part 1 common section.

09.00.00.00 OBD SYSTEM DESCR

Refer to 09.00.00.00<sup>2</sup> of Part 1 common section and 16.09.00.00<sup>2</sup> of this Part 1 application.

10.00.00.00 DESCRIPTION OF ALTERNATE-FUELED VEHICLES

Not applicable

11.00.00.00 AECD DESCRIPTIONS

Description and justification of AECD

Refer to 16.11.01.00<sup>3</sup> of this Part 1 application.

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<sup>1</sup> WAIVER STATEMENTS

<sup>2</sup> OBD system description

<sup>3</sup> General description of AECDs

## 12.00.00.00 DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE AND TEST PARAMETERS

## 12.01.00.00 Vehicle parameters

Carline name (Code)		Clarity(01060)		
Model Name		Clarity Plug-in Hybrid PLUGIN   TRNG		
Vehicle Classification		Federal	LDV	
		California	PC	
Emission Control System Description		Code	TW-097	
		Catalyst	Type/Number/ Configuration	1)
			EGR	Type
		Air Pump	Type	Not Applicable
		Fuel System	Type	Port Fuel Injection
		Intake Air Aspiration	Method	Normal
		Other		Not Applicable
Engine Code		JWJ1C1		
Number of Valves per Cylinder		4		
Engine Displacement (CID)		91		
Sales Area		50 States		
Transmission		E-CVT		
Overdrive		Yes		
SIL		Not Applicable		
Tire Size		235/45R18 94V		
N/V Ratio		36.2		
ETW (lbs)		4,250		
EVAP Canister Nominal Working Capacity (g)		116		
EVAP Canister Volume (cc)		1,765		
Fuel Tank Capacity (gallon)		7.0		
Active Grill Shutter		Not Applicable		

1) Refer to 16.02.01.00<sup>1</sup> of Part 1 common section.

<sup>1</sup> Catalyst specifications

- 12.02.00.00 Test parameters and special test procedure  
 12.02.01.00 Engine starting procedures

Refer to 12.02.01.00<sup>1</sup> of Part 1 common section.

- 12.02.02.00 Shift schedule

- (a) Manufacturer's recommended shift procedure  
 for Continuously Variable Transmission (CVT)

- (1) For Automatic mode;

Use "D" position.

- (2) For manual mode (Deceleration Selector);

The feature of deceleration can be selected  
 by using the paddle shifter.

Push the + paddle shifter to weaken the deceleration,  
 and push the - paddle shifter to strengthen the  
 deceleration.

Note: The foot brake must be applied to change the  
 shift selector from parking ("P").

- (3) VERIFY shift schedule ID

<u>Mode</u>	<u>CITY</u>	<u>HWY</u>	<u>US06</u>	<u>SC03</u>
Automatic mode	FTA	HWA	US6A	-

- (4) Fuel economy testing condition

Automatic mode is used only for certification  
 fuel economy testing based on EPA guidance letter  
 CISD-09-19.

<sup>1</sup> Engine starting procedures

12.02.03.00 Dynamometer loading information - Road force and dynamometer setting specifications

Transmission	Model Name	Sales Area	ETW	Tire Size	Target Coefficient Standard	Target Coefficient Cold
E-CVT	Clarity Plug-in Hybrid PLUNGIN/TRNG	50 States	4,250	235/45R18 94V	A: 26.78 B: 0.3123 C: 0.01713	A: 29.46 B: 0.3435 C: 0.01884

## 13.00.00.00 PROJECTED SALES

Refer to 13.00.00.00<sup>1</sup> of Part 1 common section.

## 14.00.00.00 REQUEST FOR APPROVAL

## 14.01.00.00 Request for certificate

Honda Motor Co., Ltd. requests that EPA issues a certificate of conformity, signed by an authorized representative, for the combination of the test group (refer to 05.00.00.00<sup>2</sup> of this Part 1 application) and EVAP/refueling family (refer to 03.00.00.00<sup>3</sup> of this Part 1 application)

For the applicable test results, refer to 07.00.00.00<sup>4</sup> of this Part 1 application.

## 14.02.00.00 Request for Executive Order

Honda Motor Co., Ltd. requests that California Air Resources Board issues an Executive Order, signed by an authorized representative, for the combination of the test group (refer to 05.00.00.00<sup>2</sup> of this Part 1 application) and EVAP/refueling family (refer to 03.00.00.00<sup>3</sup> of this Part 1 application).

For the applicable test results, refer to 17.01.00.00<sup>5</sup> of this Part 1 application.

## 14.03.00.00 Statement of compliance

Refer to 14.03.00.00<sup>6</sup> of Part 1 common section.

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<sup>1</sup> Projected sales information

<sup>2</sup> TEST GROUP DESCRIPTION

<sup>3</sup> EVAPORATIVE(EVAP) / REFUELING FAMILY DESCRIPTION

<sup>4</sup> TEST RESULT

<sup>5</sup> ARB certification review sheet

<sup>6</sup> Statement of compliance



15.00.00.00 OTHER INFORMATION

15.01.00.00 Fee filing form

US EPA Fee Form

General Information

Date:

Process Code:

Manufacturer Code:

Manufacturer Name:

Manufacturer Contact

Name:

Email Address:

Phone:

Calendar Year complete application submitted to EPA:

Engine Family / Evaporative Family / Test Group:

Certificate Request Type (Industry Sector Code)

- On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- On-Highway HDE Dyno Cert (Federal) (E, H)
- On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- On-Highway Motorcycle (C)
- On-Highway HDV Evap (F)
- On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- On-Highway HDE Dyno Cert (California-Only) (E, H)
- Nonroad CI (L)
- Nonroad SI (B, S)
- Locomotive (G, K)
- All Nonroad Recreational, excluding Marine engines (X, Y)
- All Marine (Including IMO) (M, N, W)
- Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only):

ICI VIN Number (Required for ICIs Only):

Do you qualify for a Reduced Fee (RF)?

What is the total number of vehicles, engines, or units covered?:

What is the aggregate total retail value of the vehicles, engines or units covered?:

Payment Information

Amount Owed:

Payment Type:

Comments:

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 12/31/2019

The public reporting and recordkeeping burden for this collection of information is estimated to average 20 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

17.00.00.00 CALIFORNIA ARB INFORMATION

17.01.00.00 ARB certification review sheet

2018 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O. # \_\_\_\_\_ Page 1 of 2

- Manufacturer : HONDA
- Durability Group : JHNXHHGNNDBE
- Test Group : JHNXV01.5DL2
- EVAP/Refueling Family : JHNXR0116VSA
- Vehicle Class :  
(California/Federal) : Passenger Car / LDV
- Sales Area : 50S
- Single Cert Std for Multi-Class Test Group : Not applicable
- Exhaust Standards :  
(California) : LEV III SULEV 20 TZEV  
(Federal) : Tier 3 BIN 20 (150K)
- EVAP Standards :  
(California) : LEV III (150K)  
(Federal) : Tier 3 (150K)
- ORVR : Yes (150K)
- Fuel Type(s) : Dedicated Gasoline
- Exhaust Emission Test :  
Fuel(s) : LEV III E10 regular
- Test Procedures :  
- EVAP Emission Test : California
- Running Loss Test : SHED
- NMOG Test : Equivalent
- Service Accumulation : Mfr ADP
- Engine Specifications :  
- Configuration : L4
- Displacement (L/CID) : 1.5/91
- Valves per Cylinder : 4
- Rated Power (Engine) : 103 (HP) @ 5500 RPM
- Rated Power (Motor) : 135 (kW) @ 5000-6000 RPM
- Engine Location : Front
- Drive : FWD
- EGR valve type : Electric Lift
- Exhaust ECS : WU-TWC, TWC, WR-HO2S, HO2S, SFI, EGR, EGRC (use abbreviations per SAE J1930 MAY98)
- OBD : Partial
- NMOG+NOx Fleet Ave. : C.S.16.13.02.01
- Combined ZEV Allowance : Pending
- Hybrid Specifications :  
- Storage Type : Li-ion Battery
- Output/Capacity : 310.8 V/ 54.6Ah

	Section #		Section #
1 Authorized Representative	C.S.01.00.00.00	22 General Standard Increase	
2 Fuel Specifications	Filed at Honda	in Emission, Safety,	
3 Test Equipment	C.S.16.14.03.00	Meets all Requirements	C.S.14.03.00.00
4 Test Procedure	C.S.16.14.03.00	23 Driveability Statement	Not Required
5 Mileage Accumulation Route	Filed at Honda	24 Adjustable Parameters	Not applicable
6 Emission Warranty Statement	Part2 App.	25 Tamper Resistance Method(s)	Not Required
7 Maint: Cert/Req'd/Recm'd	Filed at Honda	26 Fill pipe Specifications	S.17.08.00.00
8 Emission Label/Vacuum Hose Diagram	S.17.06.00.00	27 High Altitude Compliance	C.S.08.01.01.00 C.S.08.01.02.00
9 Evap Control System (incl. ORVR if applic.)	S.03.00.00.00	28 OBD Sys include Marked Revisions	S.16.09.00.00
10 Engine Parameters	Not Required	29 I&M Test procedure & Data	S.17.01.00.00
11 Fuel System	Not Required	30 50 Degree F Compliance	S.17.01.00.00
12 Ignition System	Not Required	31 Manufacturer's RAF	Not applicable
13 Exhaust Control System	Not Required	32 Phase-In Schedule	C.S.16.13.02.00
14 Projected Sales (LDT/MDV Split)	C.S.16.13.01.00	33 NMOG Fleet Average Calculation	C.S.16.13.02.01
15 Vehicle Description	S.06.00.00.00	34 AB965 Credits/Withdrawals	Not applicable
16 Evap Bench Test Procedure	C.S.16.04.02.00	35 EPA Certificate	Pending
17 R/L Temperature & Pressure Profiles	C.S.16.12.02.04	36 Equiv NMOG Proc-ARB Approval	Not Applicable
18 EDV Selection	Filed at Honda		
19 Production Vehicles			
Same as Test Vehicles	Not Required		
20 Emission Label Durability	Not Required		

21 Test vehicle information

	Exh. DDV	EVAP/ORVR DDV	Exh. EDV	EVAP/ORVR EDV
C/O, C/A MY	2018 NEW	N/A	2018 NEW	2018 NEW
Vehicle ID	DJWJ1C	N/A	DJWJ1C, EJWJ1C	EJWJ2C

Note: Each logs (Vehicle log, Mainte log, Zero Mile book etc.) are filed at Honda.

Manufacturer: HONDA Exhaust Standard: LEV III SULEV 20 TZEV Conversion ratio for in-use testing  
 Test Group: JHNXV01.5DL2 EVAP Standard: LEV III NMOG/NMHC: 1.1 (FTP), 1.03 (HWY, US06, SC03)  
 EVAP/Refueling: JHNXR0116VSA NMOG RAF: N/A HCHO/NMHC: 0.05(Based on good engineering judgment)  
 Displacement (CID): 91 Methane RAF: N/A

Exhaust Emissions (CITY/HWY)

VID-VC	Eng Code (Trans)	ETW	Target ABC	MPG City/HWY	Status	Mile	City					HWY	
							NMOG+NOx	CO	HCHO	PM	CO <sub>2</sub> <sup>1)</sup>	NMOG+NOx	CO <sub>2</sub> <sup>1)</sup>
DJWJ1C-01	JWJ1C1 (CVT)	4,250	A:26.78	N/A	Cert Level	150K	0.014	0.1	0.000	0.001	141	0.005	143
			B: 0.3123		Standard	150K	0.020	1.0	0.004	0.003	-	0.020	-
			C: 0.01713		Add DF	150K	0.0050	0.00	0.0001	0.0001	-	0.0050	-

1): CO2 is the value at 4K mile.

Exhaust Emissions (SFTP/50degF)

VID-VC	Eng Code (Trans)	ETW	Target ABC	Status	Mile	US06	SFTP composite			Mile	50 degF			
						PM	NMOG+NOx	CO	CO <sub>2</sub>		NMOG+NOx	CO	HCHO	
DJWJ1C-01	JWJ1C1 (CVT)	4,250	A:26.78	Cert Level	150K	0.001	0.011	0.1	-	4K	0.014	0.1	0.000	
			B: 0.3123		Standard	150K	0.010	0.050	4.2	-	4K	0.040	1.0	0.008
			C: 0.01713		Add DF	150K	0.0001	0.005	0.00	-	4K	-	-	-

Exhaust Emissions (20degF)

VID-VC	Eng Code (Trans)	ETW	Target ABC	Status	Mile	20degF CO	
DJWJ1C-01	JWJ1C1 (CVT)	4,250	A:29.46	Cert Level	50K	0.2	
			B: 0.3435		Standard	50K	10.0
			C: 0.01884		Add DF	50K	0.00

EVAP/Refueling Emission

VID-VC	Eng Code (Trans)	ETW	Target ABC	Status	Mile	3day	R/L	2day	ORVR	Canister Bleed	
EHPA2C-00	JWJ1C1 (CVT)	4,250	A:26.78	Cert Level	150K	0.143	0.00	0.131	0.01	N/A	
			B: 0.3123		Standard	150K	0.300	0.05	0.300	0.20	N/A
			C: 0.01713		Add DF 2)	150K	-	-	-	-	-

Unit : g/test for 2day and 3day, g/gallon for ORVR and g/mile for R/L

2): EVAP/Refueling DFs are averaged of

	3day	R/L	2day	ORVR
Vehicle	N/A	N/A	N/A	N/A
Bench	N/A	N/A	N/A	N/A

I/M Test: Honda ensures compliance with ASM and idle mode I/M standards based on Honda's technical judgment. This Test Group also complies with I/M standards at ambient temperature from 35 to 68degF.

17.02.00.00 ARB supplemental data sheet

2018 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O. # \_\_\_\_\_  
 Page 1 of 1

- Manufacturer : HONDA
- Durability Group : JHNXHHGNDBE
- Test Group : JHNXV01.5DL2
- EVAP/Refueling Family : JHNXR0116VSA

EVAP /Refueling Family	Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans (M5, L4 etc.)	ETW or Test Wt.	Target Coefficient Standard
JHNXR0116VSA	JWJ1C1 (50ST)	Clarity Plug-in Hybrid PLUNGIN/TRNG	E-CVT	4,250	A: 26.78 B: 0.3123 C: 0.01713

Application processed by : \_\_\_\_\_ Date : \_\_\_\_\_

Reviewed by : \_\_\_\_\_ Date : \_\_\_\_\_

<sup>1</sup> PART NUMBERS OF ALL EMISSION-RELATED COMPONENTS AND AUXILIARY EMISSION CONTROL DEVICES (AECDs)

17.03.00.00 DF calculations

(a) DF calculation summary

Durability group : JHNXHHGNNDBE  
 DDV configuration : DJWJ1C-00  
 Mileage accumulation fuel : Commercial unleaded gasoline  
 Emission test fuel : LEV III E10 regular  
 Applicable for RAF : Not Applicable

No	Mileage Point	System Miles	NMOG+Nox (g/mile)	CO (g/mile)	HCHO (g/mile)	N2O (g/mile)	PM (g/mile)
1	3,000	3950.2	0.0077	0.09	0.0002	0.0003	0.0006
2	3,000	3979.9	0.0086	0.09	0.0002	0.0003	0.0006
3	3,000						
4	150,000	150044.7	0.0124	0.05	0.0003	0.0004	0.0007
5	150,000	150074.5	0.0138	0.05	0.0003	0.0001	0.0007
6	150,000						

	NMOG+Nox	CO	HCHO	N2O	PM
Slope	3.388E-08	-2.738E-07	6.845E-10	-2.790E-13	6.845E-10
Intercept (g/mile)	8.016E-03	9.109E-02	1.973E-04	2.500E-04	5.973E-04
3,000 (g/mile)	0.0081	0.09	0.0002	0.0003	0.0006
50,000 (g/mile)	---	0.08	---	---	---
120,000 (g/mile)	---	---	---	---	---
150,000 (g/mile)	0.0131	0.05	0.0003	0.0002	0.0007
D.F. (50K) (g/mile)	---	0.00	---	---	---
D.F. (120K) (g/mile)	---	---	---	---	---
D.F. (150K) (g/mile)	0.0050	0.00	0.0001	0.0000	0.0001

17.04.00.00 OBD system phase-in compliance plan

Refer to 16.09.10.00<sup>1</sup> of Part 1 common section.

17.05.00.00 Emission control label

Refer to 17.06.00.00<sup>2</sup> of Part 1 common section and 09.00.00.00<sup>2</sup> of Part 2 common section.

17.06.00.00 A/F control strategy - LBT requirement for SFTP

This test group is not designed to employ A/F ratios richer than LBT + 4% to avoid catalyst damage.

17.07.00.00 Fill pipe specifications

Refer to 17.08.00.00<sup>5</sup> of Part 1 common section.

17.08.00.00 Combined ZEV Allowance

According to CARB regulations in section 1962.2, this model is allowed the following Combined ZEV Allowance.

UDDS Test Cycle Range (AER) [mile]	: 71.2107
UDDS Test Cycle Range (EAER) [mile]	: 71.4056
Allowance for Zero Emission VMT	: (0.01)*71.4056+0.30 =1.0141
Allowance for US06 Capability	: Not Applicable
Allowance for TZEVS	: 1.01

17.09.00.00 Environmental Performance Label Information

Honda applies new EPA label in lieu of the CA EP label.

<sup>1</sup> OBD phase-in plan for California state

<sup>2</sup> Emission control label

<sup>3</sup> A/F control data - Richer than LBT A/F + 4%

<sup>4</sup> SFTP - Lean Best Torque (LBT) Air-to-Fuel (A/F) ratio control

<sup>5</sup> Fill pipe specifications