Application for Certification - Part 1
2027 Model Year

Durability Group	VHNXHHGNN94A		
Test Group	VHNXJ02.0P5D		
EVAP/Refueling Family	VHNXR0150DAA		
Carline Name (Code)	CR-V AWD	(01101)	
	CR-V FWD	(01102)	
	CR-V AWD TrailSport	(01103)	
Model Name	CR-V HYBRID AWD	(FH-SPO, FH-SL, FH-EXL, FH-TOU)	
	CR-V HYBRID FWD	(FH-SPO, FH-SL, FH-TOU)	
	CR-V HYBRID AWD TrailSport	(FH-TS)	
Vehicle Description			
Vehicle Class	**(Federal)**	LDT2(AWD), LDV(FWD)	
	(California)	Not applicable	
Combustion Cycle	Otto Cycle / 4 Stroke (with Hybrid Electric)		
Fuel Type / System	Gasoline (with Hybrid Electric) / Direct Fuel Injection		
Catalyst Code	TW-148		
Engine	2.0 Liter / L4		
Applicable Standards			
Exhaust Emissions	**(Federal)**	Interim Tier 4 BIN 20	150k Mile
	(California)	Not applicable	150k Mile
Evaporative / Refueling Emissions	**(Federal)**	Tier 3	150k Mile
	(California)	Not applicable	150k Mile
Exhaust Durability			
DDV Configuration	DT9F1C-00	Bench Age (HMA-IIRA)	
EVAP/Refueling Durability			
DDV Configuration	EHMR3A-01	Bench Age	

Emission Data Vehicles

EDV Configuration

ET9F1C-00	FTP (L4E10)	THNX10088566
	HWY (L4E10)	THNX10088562
	US06 (L4E10)	THNX10088563
	SC03 (L4E10)	THNX10088564
	Cold CO (E10)	THNX10088565
EP9F3C-00	3D EVAP	PHNX10075181
	R/L	PHNX10075182
	2D EVAP	PHNX10075180
	ORVR	PHNX10075183
EHMR3A-00	CANISTER BLEED	JHNX10046194

EPA Response Requested by: June 24, 2026
CARB Response Requested by: July 28, 2026

For Questions, Contact: Jesse Deeter, (937) 620-5517

Honda Motor Co., Ltd.

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01.00.00.00 Correspondence and Communications

Refer to 01.00.00.00[1] of Part 1 common section.

02.00.00.00 Durability Group Description

Refer to 02.00.00.00[2] of Part 1 common section.

03.00.00.00 Evaporative(EVAP)/Refueling Family Description

Refer to 03.00.00.00[3] 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[4] of Part 1 common section and 16.04.01.00[4] of this Part 1 application.

04.02.00.00 Durability demonstration procedures for EVAP/refueling emissions

Refer to 04.02.00.00[5] of Part 1 common section.

04.03.00.00 Deterioration Factor (DF) information

Refer to Certification Summary Information Report.

04.04.00.00 Equivalency Factor (EF) information

Catalyst Location		Close Coupled
Equivalency Factor (EF)	ARC/SRC	0.764038
	SRC/ARC	1.308836
Useful Life Miles		150000
Reference Temp °C (Tr)		830
In-Use Correction Factor		1.10
Catalyst Temp Sensitivity (R)		17500

[1] Correspondence and Communications
[2] Durability Group Description
[3] Evaporative(EVAP)/Refueling Family Description
[4] Durability demonstration procedures for exhaust emissions
[5] Durability demonstration procedures for EVAP/refueling emissions

05.00.00.00 Test Group Description

Test Group Name		VHNXJ02.0P5D
Model Name		CR-V HYBRID
Engine Displacement (CID)		122
Number of Cylinders		4
Arrangement of Cylinders		In-line
Vehicle Class	Federal	LDT2(AWD), LDV(FWD)
	California	Not applicable
Exhaust Emission Standards Class	Federal	Interim Tier 4 BIN 20
	California	Not applicable
EVAP Emission Standards Class	Federal	Tier 3
	California	Not applicable
Applicable Emission Standards		1)

1) Refer to Certification Summary Information Report.

06.00.00.00 Test Vehicle Description

For the complete vehicle description, refer to the Vehicle Information (VI) submitted to EV-CIS.

Test Purpose	Exhaust	
Test Vehicle Type	DDV	EDV
Test Vehicle Number	DT9F1C	ET9F1C
Configuration Number	00	00
Emission Control System	TWC, WR-HO2S, HO2S DFI, EGR, EGRC	

Test Purpose	EVAP/ORVR	
Test Vehicle Type	DDV	EDV
Test Vehicle Number	EHMR3A	EP9F3C, EHMR3A
Configuration Number	01	00

07.00.00.00 Test Results

(a) EPA CSI

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

Manufacturer	American Honda Motor Co., Inc.	**Manufacturer Code**	HNX
Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	05/28/2026 08:25:58 PM
Model Year	2027		

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test Group Information

CSI Type	Update for Correction	**Running Change Reference Number**	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition Direct fuel injection	No

Drive Source #2: Electric Motor

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	Yes
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	No
Fuel Cell Indicator	No	**EPA Vehicle Class**	LDT2, LDV
Federal Clean Fuel Vehicle	No	**Federal Clean Fuel Vehicle Standard**	--
Federal Clean Fuel Vehicle ILEV	No	**California Partial Zero Emissions Vehicle Indicator**	No
Durability Group Name	VHNXHHGNN94A	**Durability Group Equivalency Factor**	0.8
Reduced Fee Test Group	No	**Certification Region Code(s)**	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	**CAP2000 Conditional Certificate?**	N/A
Independent Commercial Importer?	--	**Alternative Fuel Converter Certificate?**	--
SFTP Federal Composite Compliance Identifier	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VHNXV02.07EB
Test Group OBD Compliance Level	Full - no deficiencies	**Number of Test Group OBD Deficiencies**	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	Litmus Judgment has been confirmed by 5 cycle tests with E10 fuel. EPA City Litmus Value: 43.5, EPA City Litmus Threshold: 40.9, EPA Highway Litmus Value: 33.3, EPA Highway Litmus Threshold: 31.0		
Mfr Exhaust / Evap Standards Comments	--		

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Evaporative/Refueling Family Information

Evaporative Summary Information Type	Update for Correction	**Submission/Correction Date**	05/14/2026 08:33:05 PM
Integrated ORVR?	Yes	**Fuel(s)**	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	**Fuel Tank Material Description**	PE-HD/EVOH
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	**Air Intake System Vapor Storage Device Description**	--
Fuel System Vapor Storage Canister?	Yes	**Other Vapor Storage**	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	150	**Number of Primary Canisters**	1
Number of Bleed Canisters	0	**Bleed Canister Total Working Capacity (grams)**	--
Mfr Evaporative/Refueling Family Comments	Common with CR-V Hybrid, PASPORT, MDX 3.5L.		

Leak Family Details

Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	**Applicability of Evaporative Canister Bleed Test**	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	**Applicability of CARB Fuel Only (Rig) Test**	--
CARB Fuel Only (Rig) Test Comments	--		

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VHNXR0150DAA-E00	50 State	0.02	PASSPORT
VHNXR0150DAA-A00	50 State	0.02	CR-V Hybrid and MDX 3.5L

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
American Honda Motor Co., Inc.	1 - Honda	102 - CR-V FWD	Federal	2-Wheel Drive, Front	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	101 - CR-V AWD	California + CAA Section 177 states	All Wheel Drive	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	101 - CR-V AWD	Federal	All Wheel Drive	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	103 - CR-V AWD TrailSport	Federal	All Wheel Drive	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	102 - CR-V FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	103 - CR-V AWD TrailSport	California + CAA Section 177 states	All Wheel Drive	Continuously Variable	1	Yes

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Engine Description

Hybrid Type	IC Engine/Electric Motor	**Hybrid Description**	--
Engine Type	4-Stroke Spark Ignition	**Mfr Engine Description**	--
Engine Block Arrangement	Inline	**Mfr Engine Block Arrangement Description**	--
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	0W-20
Number of Cylinders/Rotors	4	**Mechanically Variable Compression Ratio Indicator**	N

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Engine Configuration Number 1

Engine Displacement (liters)	2.0	**Engine Rated Horsepower**	145
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Naturally Aspirated	**Number of Air Aspiration Devices**	--
Air Aspiration Device Configuration	--	**Charge Air Cooler Type**	N/A
Air Aspiration Drive Method(s)	--		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Variable valve Timing Control (VTC) system is applied.		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	1	**Number of Air/Fuel Sensors**	2
Air/Fuel Sensor # 1 Type	Heated oxygen	**Air/Fuel Sensor # 1 Description**	--
Air/Fuel Sensor # 2 Type	Heated air fuel	**Air/Fuel Sensor # 2 Description**	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	**Cooled Exhaust Gas Recirculation**	Yes
EGR Type	Electronic/Electric	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	--		

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Official Test Numbers

Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	THNX10088566	THNX10088563	THNX10088564	THNX10088565	THNX10088562	--	--	--	--	--
Gasoline	THNX10088566	THNX10088563	THNX10088564	THNX10088565	THNX10088562	53.3	228.2	42.3	286.1	--

Hybrid Electric Vehicle And Fuel Cell Information

Rechargable Energy Storage System	Battery(s)	**Rechargable Energy Storage System, if Other**	--
Battery Type	Lithium Ion	**Number of Battery Packs**	1
Total Voltage of Battery Packs	263	**Battery Energy Capacity**	4.1
Battery Specific Energy	77.3	**Battery Charger Type**	On-Board
Number of Capacitors	--	**Capacitor Rating (In Farads)**	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Front Wheels	**Driver Controlled Regenerative Braking**	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	AC PMSM	**Rated Motor/Generator Power**	68
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	**Usable H2 Fill Capacity (kg)**	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Emission Data Vehicle Information

Vehicle ID / Configuration	EHMR3A / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	JHNXT03.5M33	**Original Evaporative/Refueling Family**	JHNXR01502SA
Original Test Vehicle Model Year	2018		

Vehicle Model

Represented Test Vehicle Make	HONDA	**Represented Test Vehicle Model**	ODYSSEY FWD

Leak Family Details

Leak Family Identifier	A00	**Leak Family Name**	JHNXR01502SA-A00

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	No
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1.006
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	JMR1A1	**Rated Horsepower**	280
Displacement (liters)	3.5		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	N/A	**Drive Mode While Testing**	2-Wheel Drive, Front
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	150,000 (mi)
Curb Weight (lbs)	4588	**Equivalent Test Weight (pounds)**	5000
GVWR (lbs)	--	**N/V Ratio**	22.5
Axle Ratio	3.61		
Transmission Type	Semi-Automatic	**# of Transmission Gears**	10
Transmission Lockup	Yes	**Creeper Gear**	No

Dynamometer Coefficients:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	35.87	-0.0473	0.0276	15.28	-0.2113	0.02765	13.7

Emission Control Device Comments --

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Manufacturer Test Vehicle Comments DRIVE MODE: ECON OFF, D-AUTO TIRE: 235/55R19 101H PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. COOLING FAN USED FOR CITY : ROAD SPEED FAN WITH ENGINE HOOD CLOSED.

Test #	**JHNX10046194**	**Test Procedure**	**65 - Evap Canister Bleed Test**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/16/2016	**Fuel**	Gasoline
Fuel Batch ID	QGLGC1	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Honda R&D Co., Ltd. Automobile R&D Center (Tochigi)		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	0	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0116	--

Manufacturer Test Comments Bleed Test

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	0.0116	0.00	0.012	0.020	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Emission Data Vehicle Information

Vehicle ID / Configuration	EP9F3C / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	PHNXT02.0PWC	**Original Evaporative/Refueling Family**	PHNXR0150BAB
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	HONDA	**Represented Test Vehicle Model**	CR-V AWD

Leak Family Details

Leak Family Identifier	B00	**Leak Family Name**	PHNXR0150BAB-B00

Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1.004
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	P9F1F1	**Rated Horsepower**	145
Displacement (liters)	2		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	0	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	N/A	**Drive Mode While Testing**	2-Wheel Drive, Front
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	3929	**Equivalent Test Weight (pounds)**	4250
GVWR (lbs)	5071	**N/V Ratio**	37.8
Axle Ratio	4.44		
Transmission Type	Continuously Variable	**# of Transmission Gears**	1
Transmission Lockup	Yes	**Creeper Gear**	No

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	27.24	0.436	0.02284	15.25	-0.0588	0.02668	14.2
Cold CO	0	0	0	0	0	0	N/A
US06	0	0	0	0	0	0	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments MULTI MODE: D-AUTO, NORMAL TIRE: 235/55R19 101H

Test #	**PHNX10075180**	**Test Procedure**	**27 - California fuel 2-day evap**
Exhaust Test # for this Evap Test	PHNX10075176	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	04/15/2022	**Fuel**	Gasoline
Fuel Batch ID	QAL21C	**Fuel Calibration Number**	403
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4085	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2473	--

Manufacturer Test Comments MFR 4K TEST (2D EVAP).HSL(0.02273)/ Day1(0.22459)/ Day2(0.13919)

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	0.2473	0.05	0.297	0.400	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**PHNX10075181**	**Test Procedure**	**38 - CA fuel 3-day evap.**
Exhaust Test # for this Evap Test	PHNX10075177	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	04/22/2022	**Fuel**	Gasoline
Fuel Batch ID	QAL21C	**Fuel Calibration Number**	404
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4159	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2444	--

Manufacturer Test Comments MFR 4K TEST (3D EVAP).HSL(0.04016)/ Day1(0.15028)/ Day2(0.11739)/ Day3(0.10977)

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	0.2444	0.05	0.294	0.400	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**PHNX10075182**	**Test Procedure**	**37 - California Fuel Running Loss**
Exhaust Test # for this Evap Test	PHNX10075177	**Test Fuel Type**	46 - CARB LEV3 E10 Regular Gasoline
Test Date	04/22/2022	**Fuel**	Gasoline
Fuel Batch ID	QAL21C	**Fuel Calibration Number**	404
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4142	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

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

Manufacturer Test Comments MFR 4K TEST (3D 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	0.00	0.00	0.05	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**PHNX10075183**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	PHNX10075178	**Test Fuel Type**	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/13/2022	**Fuel**	Gasoline
Fuel Batch ID	QAT223	**Fuel Calibration Number**	301
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4066	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0228	--

Manufacturer Test Comments MFR 4K 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	0.023	0.02	0.04	0.20	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Emission Data Vehicle Information

Vehicle ID / Configuration	ET9F1C / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	THNXT02.0PHT	**Original Evaporative/Refueling Family**	THNXR0150EAA
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	HONDA	**Represented Test Vehicle Model**	CR-V FWD

Leak Family Details

Leak Family Identifier	A00	**Leak Family Name**	THNXR0150EAA-A00

Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1.002
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	T9F1F1	**Rated Horsepower**	145
Displacement (liters)	2		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	--	**Drive Mode While Testing**	2-Wheel Drive, Front
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	3752	**Equivalent Test Weight (pounds)**	4000
GVWR (lbs)	5071	**N/V Ratio**	38
Axle Ratio	4.44		
Transmission Type	Continuously Variable	**# of Transmission Gears**	1
Transmission Lockup	Yes	**Creeper Gear**	No

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	25.59	0.2499	0.02261	14.46	-0.2283	0.02696	12.6
Cold CO	28.15	0.2749	0.02487	11.9	-0.2878	0.02902	N/A
US06	25.59	0.2499	0.02261	14.46	-0.2283	0.02696	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments MULTIMODE:D-Auto, Sports, TIRE SIZE: 235/60R18

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**THNX10088565**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	12/05/2024	**Fuel**	Gasoline
Fuel Batch ID	QRW23C	**Fuel Calibration Number**	502
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4182	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	330.92	--
FE BAG 1 (Bag 1 Fuel Economy)	27.5	27.5
CO2 BAG 2 (Bag 2 Carbon Dioxide)	179.17	--
FE BAG 2 (Bag 2 Fuel Economy)	50.8	50.8
CO2 BAG 3 (Bag 3 Carbon Dioxide)	237.86	--
FE BAG 3 (Bag 3 Fuel Economy)	38.2	38.2
METHANE (CH4 - Methane)	0.002	--
CO (Carbon Monoxide)	0.11	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1129108	--
DT-EER (Drive Trace Energy Economy Rating)	0.0375012	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.002531	--
MFR FE (Manufacturer Fuel Economy)	40.1	40.1
NOX (Nitrogen Oxide)	0.0067	--
HC-NM (Non-methane Hydrocarbon)	0.0123	--
NMOG (Non-methane organic gases)	0.01357	--
HC-TOTAL (Total Hydrocarbon)	0.01387	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	226.76	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.10262) IS APPLIED. MFR 4K TEST (Cold FTP).

Test Group VHNXJ02.0P5D **Evaporative/Refueling Family** VHNXR0150DAA

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	0.11	--	--	--	0.02	--	0.1	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.01	--	--	--	0.00	--	0.0	0.2	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**THNX10088566**	**Test Procedure**	**25 - California fuel 2-day exhaust (w/can load)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	51 - CARB LEV4 E10 Regular Gasoline
Test Date	11/29/2024	**Fuel**	Gasoline
Fuel Batch ID	QRM24A	**Fuel Calibration Number**	304
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4071	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	236.99	--
FE BAG 1 (Bag 1 Fuel Economy)	36.8	36.8
CO2 BAG 2 (Bag 2 Carbon Dioxide)	72.14	--
FE BAG 2 (Bag 2 Fuel Economy)	121.2	121.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	225.81	--
FE BAG 3 (Bag 3 Fuel Economy)	38.7	38.7
CO2 BAG 4 (Bag 4 Carbon Dioxide)	62.06	--
FE BAG 4 (Bag 4 Fuel Economy)	140.8	140.8
METHANE (CH4 - Methane)	0.001	--
CO (Carbon Monoxide)	0.062	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1185718	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0972442	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.0080012	--
HCHO (Formaldehyde)	0.00026	--
MFR FE (Manufacturer Fuel Economy)	59.8	59.8
NOX (Nitrogen Oxide)	0.0076	--
HC-NM (Non-methane Hydrocarbon)	0.0053	--
NMOG (Non-methane organic gases)	0.00578	--
PM (Particulate Matter)	0.00019	--
HC-TOTAL (Total Hydrocarbon)	0.00668	--

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	148.5	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	145.55	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.09765) IS APPLIED. MFR 4K TEST (FTP).

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	150,000 miles	Federal Tier 3 Bin 20	CO	0.06	--	--	--	0.07	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO-COMP	0.17	--	--	--	--	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	HCHO	0.0003	--	--	--	0.0000	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0058	--	1.09765	--	0.0011	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0134	--	1.09765	--	--	--	0.014	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX-COMP	0.0121	--	1.09765	--	--	--	0.012	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0076	--	--	--	0.0000	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0002	--	--	--	0.0000	--	0.000	0.003	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**THNX10088562**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	51 - CARB LEV4 E10 Regular Gasoline
Test Date	11/29/2024	**Fuel**	Gasoline
Fuel Batch ID	QRM24A	**Fuel Calibration Number**	304
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4085	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.001	--
CO (Carbon Monoxide)	0.204	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.4393765	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1973871	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.4515671	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	47.2	47.2
NOX (Nitrogen Oxide)	0.0024	--
HC-NM (Non-methane Hydrocarbon)	0.0001	--
NMOG (Non-methane organic gases)	0.00005	--
HC-TOTAL (Total Hydrocarbon)	0.00053	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	188.4	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	184.55	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.03) IS APPLIED. MFR 4K TEST (HWY).

Test Group VHNXJ02.0P5D **Evaporative/Refueling Family** VHNXR0150DAA

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	999	--	--	--	0.10	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0000	--	1.03	--	0.0011	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0024	--	1.03	--	--	--	0.004	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0024	--	--	--	0.0000	--	0.002	999.999	Pass

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

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**THNX10088563**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	51 - CARB LEV4 E10 Regular Gasoline
Test Date	11/29/2024	**Fuel**	Gasoline
Fuel Batch ID	QRM24A	**Fuel Calibration Number**	304
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4108	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	265.02	--
FE BAG 1 (Bag 1 Fuel Economy)	33	33
CO2 BAG 2 (Bag 2 Carbon Dioxide)	244.18	--
FE BAG 2 (Bag 2 Fuel Economy)	35.8	35.8
METHANE (CH4 - Methane)	0.002	--
CO (Carbon Monoxide)	0.068	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.5474505	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6416159	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.7228447	--
HCHO (Formaldehyde)	0.00035	--
MFR FE (Manufacturer Fuel Economy)	35.1	35.1
NOX (Nitrogen Oxide)	0.0044	--
HC-NM (Non-methane Hydrocarbon)	0.007	--
NMOG (Non-methane organic gases)	0.00719	--
PM (Particulate Matter)	0.0007	--
HC-TOTAL (Total Hydrocarbon)	0.00895	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	248.79	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.03) IS APPLIED. MFR 4K TEST (US06).

Test Group VHNXJ02.0P5D **Evaporative/Refueling Family** VHNXR0150DAA

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	0.07	--	--	--	0.07	--	0.1	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0072	--	1.03	--	0.0011	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0044	--	--	--	0.0000	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0007	--	--	--	0.0000	--	0.001	0.006	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Test #	**THNX10088564**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	51 - CARB LEV4 E10 Regular Gasoline
Test Date	12/02/2024	**Fuel**	Gasoline
Fuel Batch ID	QRM24A	**Fuel Calibration Number**	304
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	Certification & Regulatory Compliance Division - Honda Motor Co., Ltd.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4149	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.002	--
CO (Carbon Monoxide)	0.164	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0421925	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0118018	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.1519439	--
HCHO (Formaldehyde)	0.00004	--
MFR FE (Manufacturer Fuel Economy)	37.6	37.6
NOX (Nitrogen Oxide)	0.0074	--
HC-NM (Non-methane Hydrocarbon)	0.0009	--
NMOG (Non-methane organic gases)	0.00089	--
HC-TOTAL (Total Hydrocarbon)	0.00239	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	231.96	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.03) IS APPLIED. MFR 4K TEST (SC03).

Test Group VHNXJ02.0P5D **Evaporative/Refueling Family** VHNXR0150DAA

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	150,000 miles	Federal Tier 3 Bin 20	CO	0.16	--	--	--	0.07	--	0.2	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0009	--	1.03	--	0.0011	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0074	--	--	--	0.0000	--	0.007	999.999	Pass

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Fuel Properties

Fuel Batch ID	**QRM24A**	**Fuel Calibration Number**	**304**
Test Fuel Type	51 - CARB LEV4 E10 Regular Gasoline	**Fuel Batch Calibration Date**	11/05/2024
Fuel Batch Calibration Effective Date	11/05/2024	**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 (%)	9.5	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17840
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	**Weight Fraction CO2**	--

Fuel Batch ID	**QAL21C**	**Fuel Calibration Number**	**403**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	01/18/2022
Fuel Batch Calibration Effective Date	01/18/2022	**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**	0.754
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17964
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	**Weight Fraction CO2**	--

Fuel Batch ID	**QAT223**	**Fuel Calibration Number**	**301**
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	03/16/2022
Fuel Batch Calibration Effective Date	03/16/2022	**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**	0.749
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17945
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	**Weight Fraction CO2**	--

Fuel Batch ID	**QAL21C**	**Fuel Calibration Number**	**404**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	01/18/2022
Fuel Batch Calibration Effective Date	01/18/2022	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.754
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17964
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	**Weight Fraction CO2**	--
Fuel Batch ID	**QRW23C**	**Fuel Calibration Number**	**502**
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	**Fuel Batch Calibration Date**	07/23/2024
Fuel Batch Calibration Effective Date	07/23/2024	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.738
Fuel Ethanol Volume Percent (%)	10.2	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17807
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.862	**Weight Fraction CO2**	--
Fuel Batch ID	**QGLGC1**	**Fuel Calibration Number**	**1**
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	**Fuel Batch Calibration Date**	12/01/2016
Fuel Batch Calibration Effective Date	12/01/2016	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.75
Fuel Ethanol Volume Percent (%)	9.9	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18535
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.863	**Weight Fraction CO2**	--

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Consolidated List of Standards

Exhaust Standards

Cert Region Federal
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Cert
Standard Level Federal Tier 3 Bin 20
Test Procedure HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.10	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0000	999.999

Cert Region Federal
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Cert
Standard Level Federal Tier 3 Bin 20
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	--	--	--	--	--	--	0.07	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0000	0.004
150,000 miles	NMOG	--	--	1.09765	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	1.09765	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	1.09765	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0000	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Cert Region Federal
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Cert
Standard Level Federal Tier 3 Bin 20
Test Procedure SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0011	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0000	999.999

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 20
Fuel	Gasoline	**Test Procedure**	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0011	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0000	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006

Cert Region	Federal	**Cert/In-Use Code**	Cert
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 20
Fuel	Gasoline	**Test Procedure**	Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.2

Evaporative/Refueling Standards

Evaporative/Refueling Family	VHNXR0150DAA	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	California fuel 2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.05

Evaporative/Refueling Family	VHNXR0150DAA	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	CA fuel 3-day evap.		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.05

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Evaporative/Refueling Family	VHNXR0150DAA	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.02

Evaporative/Refueling Family	VHNXR0150DAA	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.00

Evaporative/Refueling Family	VHNXR0150DAA	**Cert Region**	Federal
Cert/In-Use Code	Cert	**Standard Level**	Federal Tier 3 Evap
Test Procedure	California Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.00

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA

Glossary

Useful Life

4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		

Emission Name

HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA
ACT-DISTANCE	Actual Distance Driven (miles)	WATT-HRS BAG 3	Bag 3 Watt Hours
AS-VOLT	Average System Voltage	WATT-HRS BAG 4	Bag 4 Watt Hours
CO2 BAG 1	Bag 1 Carbon Dioxide	WATT-HRS	Watt Hours
CO2 BAG 2	Bag 2 Carbon Dioxide	HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon
CO2 BAG 3	Bag 3 Carbon Dioxide	HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon
CO2 BAG 4	Bag 4 Carbon Dioxide	HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	N2O BAG 1	Bag 1 Nitrous Oxide
DT-IWRR	Drive Trace Inertia Work Ratio Rating	N2O BAG 2	Bag 2 Nitrous Oxide
DT-ASCR	Drive Trace Absolute Speed Change Rating	N2O BAG 3	Bag 3 Nitrous Oxide
DT-EER	Drive Trace Energy Economy Rating	N2O BAG 4	Bag 4 Nitrous Oxide
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
B2	Federal Tier 2 Bin 2	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
B3	Federal Tier 2 Bin 3	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
B4	Federal Tier 2 Bin 4	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
B5	Federal Tier 2 Bin 5	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
B6	Federal Tier 2 Bin 6	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
B7	Federal Tier 2 Bin 7	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
B8	Federal Tier 2 Bin 8	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
B9	Federal Tier 2 Bin 9	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
B10	Federal Tier 2 Bin 10	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
B11	Federal Tier 2 Bin 11	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2	California LEV-II LEV	L4SULEV100	California LEV-IV SULEV100
L2OP	California LEV-II LEV Optional	L4SULEV125	California LEV-IV SULEV125
U2	California LEV-II ULEV	L4SULEV15	California LEV-IV SULEV15
S2	California LEV-II SULEV	L4SULEV150	California LEV-IV SULEV150
ZEV	California ZEV	L4SULEV170	California LEV-IV SULEV170
OT	Other	L4SULEV175	California LEV-IV SULEV175
T1	Federal Tier 1	L4SULEV20	California LEV-IV SULEV20
PZEV	California PZEV	L4SULEV200	California LEV-IV SULEV200
L2LEV160	California LEV-II LEV160	L4SULEV230	California LEV-IV SULEV230
L2ULEV125	California LEV-II ULEV125	L4SULEV25	California LEV-IV SULEV25
L2SULEV30	California LEV-II SULEV30	L4SULEV30	California LEV-IV SULEV30
L2LEV395	California LEV-II LEV395	L4SULEV75	California LEV-IV SULEV75

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA
L2ULEV340	California LEV-II ULEV340	L4SULEV85	California LEV-IV SULEV85
L2LEV630	California LEV-II LEV630	L4ULEV125	California LEV-IV ULEV125
L2ULEV570	California LEV-II ULEV570	L4ULEV200	California LEV-IV ULEV200
L3LEV160	California LEV-III LEV160	L4ULEV250	California LEV-IV ULEV250
L3ULEV125	California LEV-III ULEV125	L4ULEV270	California LEV-IV ULEV270
L3ULEV70	California LEV-III ULEV70	L4ULEV40	California LEV-IV ULEV40
L3ULEV50	California LEV-III ULEV50	L4ULEV400	California LEV-IV ULEV400
L3SULEV30	California LEV-III SULEV30	L4ULEV50	California LEV-IV ULEV50
L3SULEV20	California LEV-III SULEV20	L4ULEV60	California LEV-IV ULEV60
L3LEV395	California LEV-III LEV395	L4ULEV70	California LEV-IV ULEV70
L3ULEV340	California LEV-III ULEV340	T4B170	Federal Tier 4 MDV Bin 170
L3ULEV250	California LEV-III ULEV250	T4B150	Federal Tier 4 MDV Bin 150
L3ULEV200	California LEV-III ULEV200	T4B125	Federal Tier 4 MDV Bin 125
L3SULEV170	California LEV-III SULEV170	T4B100	Federal Tier 4 MDV Bin 100
L3SULEV150	California LEV-III SULEV150	T4B85	Federal Tier 4 MDV Bin 85
L3LEV630	California LEV-III LEV630	T4B75	Federal Tier 4 MDV Bin 75
L3ULEV570	California LEV-III ULEV570	T4B70	Federal Tier 4 Bin 70
L3ULEV400	California LEV-III ULEV400	T4B65	Federal Tier 4 Bin 65
L3ULEV270	California LEV-III ULEV270	T4B60	Federal Tier 4 Bin 60
L3SULEV230	California LEV-III SULEV230	T4B55	Federal Tier 4 Bin 55
L3SULEV200	California LEV-III SULEV200	T4B50	Federal Tier 4 Bin 50
T3B160	Federal Tier 3 Bin 160	T4B45	Federal Tier 4 Bin 45
T3B125	Federal Tier 3 Bin 125	T4B40	Federal Tier 4 Bin 40
T3B110	Federal Tier 3 Transitional Bin 110	T4B35	Federal Tier 4 Bin 35
T3B85	Federal Tier 3 Transitional Bin 85	T4B30	Federal Tier 4 Bin 30
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	T4B25	Federal Tier 4 Bin 25
T3B70	Federal Tier 3 Bin 70	T4B20	Federal Tier 4 Bin 20
T3B50	Federal Tier 3 Bin 50	T4B15	Federal Tier 4 Bin 15
T3B30	Federal Tier 3 Bin 30	T4B10	Federal Tier 4 Bin 10
T3B20	Federal Tier 3 Bin 20	T4B5	Federal Tier 4 Bin 5
T3B0	Federal Tier 3 Bin 0	T4B0	Federal Tier 4 Bin 0
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395		

Transmission Type Code			
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)

Drive System Code			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

Test Group	VHNXJ02.0P5D	**Evaporative/Refueling Family**	VHNXR0150DAA
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		

Additional Terms and Acronyms

AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

08.00.00.00	Waiver Statements
	Refer to 08.00.00.00[1] of Part 1 common section.
09.00.00.00	OBD System Description
	Refer to 09.00.00.00[2] of Part 1 common section and 16.09.00.00[2] 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[3] of this Part 1 application.

[1] Waiver Statements
[2] OBD System Description
[3] 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)			CR-V AWD (01101)		CR-V AWD TrailSport (01103)
Model Name / Trims			CR-V HYBRID AWD		
			FH-SPO, FH-SL, FH-EXL	FH-TOU	FH-TS
Vehicle Classification		Federal	LDT2		
		California	Not applicable		
Emission Control System Description	Catalyst	Code	TW-148		
		Type/Number/ Configuration	1)		
	EGR	Type	Electric Lift Type		
	Air Pump	Type	Not Applicable		
	Fuel System	Type	Direct Fuel Injection		
	Intake Air Aspiration	Method	Naturally aspirated		
	Other		Not Applicable		
Engine Code			V9F2F1		
Number of Valves per Cylinder			4		
Engine Displacement (CID)			122		
Sales Area			50 States		
Transmission			Fixed Single Speed		
Overdrive			YES		
SIL			Not Applicable		
Tire Size			235/60R18 103H	235/55R19 101H	235/60R18 107V
N/V Ratio			38.0	37.8	38.0
ETW (lbs)			4,250		
EVAP Canister Nominal Working Capacity (g)			150		
EVAP Canister Volume (cc)			2,442		
Fuel Tank Capacity (gallon)			14		
Battery	Type		Li-ion		
	Output (V)		262.8		
	Capacity (Ah)		4.1		
Active Grill Shutter			YES		

1) Refer to 16.02.01.001 of Part 1 common section.

[1] Catalyst specifications

12.01.00.00 Vehicle parameters(contd.)

Carline name (Code)			CR-V FWD (01102)	
Model Name / Trims			CR-V HYBRID FWD	
			FH-SPO, FH-SL	FH-TOU
Vehicle Classification		Federal	LDV	
		California	Not applicable	
Emission Control System Description	Catalyst	Code	TW-148	
		Type/Number/ Configuration	1)	
	EGR	Type	Electric Lift Type	
	Air Pump	Type	Not Applicable	
	Fuel System	Type	Direct Fuel Injection	
	Intake Air Aspiration	Method	Naturally aspirated	
	Other		Not Applicable	
Engine Code			V9F2F1	
Number of Valves per Cylinder			4	
Engine Displacement (CID)			122	
Sales Area			50 States	
Transmission			Fixed Single Speed	
Overdrive			YES	
SIL			Not Applicable	
Tire Size			235/60R18 103H	235/55R19 101H
N/V Ratio			38.0	37.8
ETW (lbs)			4,000	
EVAP Canister Nominal Working Capacity (g)			150	
EVAP Canister Volume (cc)			2,442	
Fuel Tank Capacity (gallon)			14.0	
Battery	Type		Li-ion	
	Output (V)		262.8	
	Capacity (Ah)		4.1	
Active Grill Shutter			YES	

1) Refer to 16.02.01.001 of Part 1 common section.

[1] 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[1] of Part 1 common section.

12.02.02.00 Shift schedule

(a) Manufacturer's recommended shift procedure for CVT.

(1) For Automatic mode

Use “D” position.

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

(2) For Manual mode

Not applicable for certification test.

(3) EV-CIS shift schedule ID

Mode	CITY	HWY	US06	SC03
Automatic mode	FTA	HWA	USA	SCA
Manual mode		Not Applicable		

(4) Test condition

Automatic mode is used for certification emission test and fuel economy test.

12.02.03.00 Engine Oil

GF-6 Engine Oil is used for certification emission test and fuel economy test.

Specifications	For factory fill		For Certification and fuel economy test
Brand/ Supplier of oil	11FEO-KAI JX Nippon Oil & Energy Corporation	11FEO-KAI IDEMITSU KOSAN CO., LTD 11FEO-AL IDEMITSU KOSAN CO., LTD	Honda Ultimate Phillips 66 Lubricants
Type of oil	Full synthetic	Full synthetic	Full synthetic
API Category and SAE Viscosity Grade	--- 0W-20	--- 0W-20	API SP / GF-6 0W-20
FEI Sum (VIE sequence)	4.67	5.74	3.89

[1] Engine starting procedures

12.02.04.00 Dynamometer loading information - Road force and dynamometer setting specifications

Trans mission	Model Name	ETW	Tire Size	Target Coefficient Standard	Target Coefficient Cold
Fixed Single Speed	CR-V HYBRID AWD FH-SPO, FH-SL	4,250	235/60 R18 103H	A: 27.11 B: 0.4433 C: 0.02233	A: 29.82 B: 0.4876 C: 0.02456
	CR-V HYBRID AWD FH-TOU		235/55 R19 101H	A: 27.24 B: 0.4360 C: 0.02243	A: 29.96 B: 0.4796 C: 0.02467
	CR-V HYBRID AWD FH-TS		235/60 R18 107V	A: 31.47 B: 0.4397 C: 0.02239	A: 34.62 B: 0.4837 C: 0.02463
	CR-V HYBRID AWD FH-SPO, FH-EXL (CANADA)		235/60 R18 103H	A: 27.11 B: 0.4433 C: 0.02274	A: 29.82 B: 0.4876 C: 0.02501
	CR-V HYBRID AWD FH-TOU (CANADA)		235/55 R19 101H	A: 27.24 B: 0.4360 C: 0.02284	A: 29.96 B: 0.4796 C: 0.02512
	CR-V HYBRID AWD FH-TS (CANADA)		235/60 R18 107V	A: 31.47 B: 0.4397 C: 0.02281	A: 34.62 B: 0.4837 C: 0.02509
Fixed Single Speed	CR-V HYBRID FWD FH-SPO, FH-SL	4,000	235/60 R18 103H	A: 25.59 B: 0.2499 C: 0.02261	A: 28.15 B: 0.2749 C: 0.02487
	CR-V HYBRID FWD FH-TOU		235/55 R19 101H	A: 25.55 B: 0.2559 C: 0.02322	A: 28.10 B: 0.2815 C: 0.02554

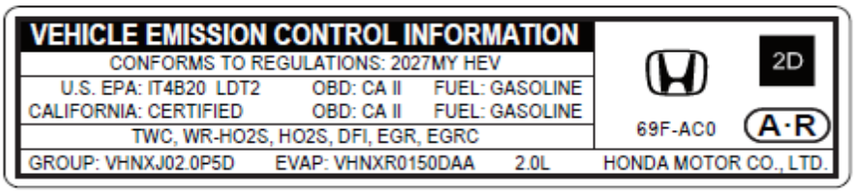
Road load has been determined through coast down method which follows SAE J2263 and also approved by EPA.

12.02.05.00 Fuel Tank Temperature Profile (FTTP)

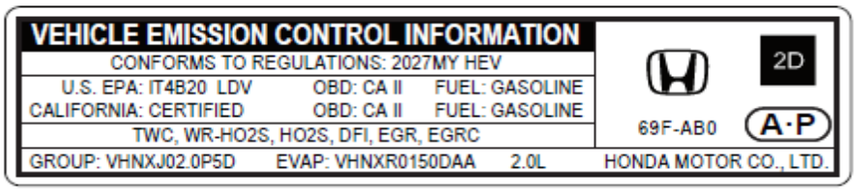
Refer to 16.12.00.00[1] of this Part 1 application.

12.03.00.00 Emission control label

AWD



FWD



[1] Fuel Tank Temperature Profile (FTTP)

13.00.00.00 Projected Sales

Refer to 13.00.00.00[1] 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[2] of this Part 1 application) and EVAP/refueling family (refer to 03.00.00.00[3] of this Part 1 application).

For the applicable test results, refer to 07.00.00.00[4] 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[2] of this Part 1 application) and EVAP/refueling family (refer to 03.00.00.00[3] of this Part 1 application).

For the applicable test results, refer to 07.00.00.00[4] of this Part 1 application.

14.03.00.00 Statement of compliance

Refer to 14.03.00.0[5] of Part 1 common section.

15.00.00.00 Other Information

15.01.00.00 Fee filing form

[1] Projected sales information
[2] Test Group Description
[3] Evaporative(EVAP)/Refueling Family Description
[4] Test Results
[5] Statement of compliance

US EPA Fee Form

Help and EPA Instructions

* Required Field

General Information

Date: 04/21/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

HNX

Manufacturer Name *

American Honda Motor Co., Inc.

Contact Name *

Mitchell Poeung

Contact Email Address *

mitchell_poeung@na.honda.com

Contact Phone *

310-701-5605

Calendar Year complete application submitted to EPA *

2026

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2026, through December 31, 2026. The applicable fee is determined by the

calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

VHNXJ02.0P5D

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

- (●) 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? *

No

Amount Owed

$32,317.00

Payment Type *

Offline ACH

Comments

Model(s): CR-V Hybrid without GPF

EPA Form Number 3520-29
OMB Control No. 2060-0545
Approval expires 7/31/2027

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 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.

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