

Certification Summary Information Report

Manufacturer	American Honda Motor Co., Inc.	Manufacturer Code	HNX
Test Group	VHNXJ02.0P5D	Evaporative/Refueling Family	VHNXR0150DAA
Certificate Number	VHNXJ02.0P5D-006	CARB Executive Order #	--
Certificate Issue Date	06/18/2026	Certificate Revision Date	--
Certificate Effective Date	06/18/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	05/28/2026 08:25:58 PM
Model Year	2027		

Certification Summary Information Report

Test Group	VHNXJ02.0P5D	Evaporative/Refueling Family	VHNXR0150DAA
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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: Electric Motor

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

Drive Source #2: Combustion Engine

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

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	08/25/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	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	--		

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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-A00	50 State	0.02	CR-V Hybrid and MDX 3.5L				
VHNXR0150DAA-E00	50 State	0.02	PASSPORT				
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	101 - CR-V AWD	California + CAA Section 177 states	All Wheel Drive	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
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	102 - CR-V FWD	Federal	2-Wheel Drive, Front	Continuously Variable	1	Yes

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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	--			

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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											
Rechargeable Energy Storage System		Battery(s)				Rechargeable Energy Storage System, if Other		--			
Battery Type		Lithium Ion				Number of Battery Packs		1			
Total Voltage of Battery Packs		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		--									

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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								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No	Multiple Fuel Combustion	--					
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	No					
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--					
Rechargeable Energy Storage System	--							
Off-board charge Capable Indicator	No	Odometer Correction Factor	1.006					
Odometer Correction -- Initial	0							
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, if 'Other'						
Air Aspiration Method	Naturally Aspirated	Air Aspiration Device Configuration	--					
Number of Air Aspiration Devices	--	Drive Mode While Testing	2-Wheel Drive, Front					
Charge Air Cooler Type	N/A	Aged Emission Components	150,000 (mi)					
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	5000					
Curb Weight (lbs)	4588	N/V Ratio	22.5					
GVWR (lbs)	--							
Axle Ratio	3.61	# of Transmission Gears	10					
Transmission Type	Semi-Automatic	Creep Gear	No					
Transmission Lockup	Yes							
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	35.87	-0.0473	0.0276					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	15.28	-0.2113	0.02765					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	13.7							
Emission Control Device Comments	--							

Certification Summary Information Report

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									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0116</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0116	--
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	0.012	0.02	Pass	

Certification Summary Information Report

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												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> <tr> <td>2</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	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 equipped	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	Creep Gear	No									

Certification Summary Information Report

Test Group	VHNXJ02.0P5D	Evaporative/Refueling Family	VHNXR0150DAA
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	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	0.4	Pass

Certification Summary Information Report

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									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.2444</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2444	--
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	0.4	Pass	

Certification Summary Information Report

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									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--
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	0	0	0.05	Pass	

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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																					
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.0228</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0228	--												
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)																					
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.023</td><td>0.02</td><td>0.04</td><td>0.2</td><td>Pass</td></tr></table>				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	0.2	Pass
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	0.2	Pass													

Certification Summary Information Report

Test Group	VHNXJ02.0P5D	Evaporative/Refueling Family	VHNXR0150DAA
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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
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Leak Family Details

Leak Family Identifier	A00	Leak Family Name	THNXR0150EAA-A00
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Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	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, if 'Other'	
Air Aspiration Method	Naturally Aspirated	Air Aspiration Device Configuration	--
Number of Air Aspiration Devices	--	Drive Mode While Testing	2-Wheel Drive, Front
Charge Air Cooler Type	--	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	4000
Curb Weight (lbs)	3752	N/V Ratio	38
GVWR (lbs)	5071		
Axle Ratio	4.44		
Transmission Type	Continuously Variable	# of Transmission Gears	1
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		VHNXJ02.0P5D			Evaporative/Refueling Family		VHNXR0150DAA	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	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						

Certification Summary Information Report

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

Certification Summary Information Report

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	--	0	0.2	Pass

Certification Summary Information Report

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	--

Certification Summary Information Report

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/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	0.06	--	--	--	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	--	0	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	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0002	--	--	--	0	--	0	0.003	Pass

Certification Summary Information Report

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).		

Certification Summary Information Report

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	120,000 miles	Federal Tier 3 Bin 20	CREE	999	--	--	--	0.1	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0	--	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	--	0.002	999.999	Pass

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

Certification Summary Information Report

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

Certification Summary Information Report

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	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0007	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

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

Certification Summary Information Report

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	0.16	--	--	--	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	--	0.007	999.999	Pass

Certification Summary Information Report

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	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	--
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	--

Certification Summary Information Report

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

Certification Summary Information Report

Test Group		VHNXJ02.0P5D			Evaporative/Refueling Family			VHNXR0150DAA		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	0.1	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	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			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	0.2	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.07	999.9	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0011	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Certification Summary Information Report

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			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	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	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
Fuel		Gasoline			Test Procedure			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	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Evaporative/Refueling Standards

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		

Certification Summary Information Report

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		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		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		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		
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		

Certification Summary Information Report

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	

Certification Summary Information Report

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	

Certification Summary Information Report

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		

Certification Summary Information Report

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	