

Certification Summary Information Report

Manufacturer	American Honda Motor Co., Inc.	Manufacturer Code	HNX
Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Certificate Number	VHNXV02.02EC-001	CARB Executive Order #	--
Certificate Issue Date	02/20/2026	Certificate Revision Date	--
Certificate Effective Date	02/20/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	01/12/2026 07:33:11 PM
Model Year	2027		

Test Group Information			
CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		
Drive Sources and Fuel(s)			
Drive Source #1:	Combustion Engine		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Gasoline	Multipoint/sequential fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	No
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VHNXGPGNN79A	Durability Group Equivalency Factor	0.9
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	04/01/2026	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	VHNXV01.563A
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: 20.7, EPA City Litmus Threshold: 19.3, EPA Highway Litmus Value: 25.6, EPA Highway Litmus Threshold: 23.3.		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNR0122DAA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	11/10/2025 10:09:11 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)	122	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	canister working capacity:122g(CIVIC 5Dr 2.0L, CIVIC 4Dr 2.0L and HR-V),121g(ACCORD Hybrid)						
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				
VHNR0122DAA-A00	50 State	0.02	CIVIC 4Dr 2.0L, CIVIC 5Dr 2.0L, HR-V and ACCORD Hybrid.				
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	110 - HR-V AWD	California + CAA Section 177 states	All Wheel Drive	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	111 - HR-V FWD	Federal	2-Wheel Drive, Front	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	110 - HR-V AWD	Federal	All Wheel Drive	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	111 - HR-V FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	Yes
Engine Description							
Hybrid Type	--	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				

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Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA								
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal	Substrate Material								
1	Three-way catalyst	Palladium + Rhodium	Ceramic								
Substrate Construction											
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	158								
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 (VTC) and lift Electronic Control (VTEC) system is applied.										
Variable Valve Lift?	Yes										
Variable Valve Lift System Description	Variable valve Timing (VTC) and lift Electronic Control (VTEC) system is applied.										
Number of Knock Sensors	1	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Heated 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	No	Cooled Exhaust Gas Recirculation	No								
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	--										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	PHNX10073121	PHNX10073123	PHNX10073124	PHNX10073125	PHNX10073122	24.8	228.2	33.8	286.1	--	

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Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Emission Data Vehicle Information

Vehicle ID / Configuration	EHPH2C / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	HHNXT02.43R3	Original Evaporative/Refueling Family	HHNXR01221SA
Original Test Vehicle Model Year	2017		

Vehicle Model

Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	CR-V 2.4L
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Leak Family Details

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

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	0.985
Odometer Correction -- Initial	0		
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles	Rated Horsepower	186
Engine Code	HPH1C1	Air Aspiration Method, if 'Other'	
Displacement (liters)	2.4	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	2-Wheel Drive, Front
Number of Air Aspiration Devices	0	Aged Emission Components	4,000 (mi)
Charge Air Cooler Type	N/A	Equivalent Test Weight (pounds)	3750
Shift Indicator Light Usage	Not equipped	N/V Ratio	24.9
Curb Weight (lbs)	3437		
GVWR (lbs)	--	# of Transmission Gears	1
Axle Ratio	5.05	Creeper Gear	No
Transmission Type	Continuously Variable		
Transmission Lockup	Yes		

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	47.17	-0.3978	0.02944	11.97	0.2022	0.02206	13.5

Emission Control Device Comments --

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Manufacturer Test Vehicle Comments TIRE: 235/65R17. ECON OFF. PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. TEST FUEL FOR 3D FTP/EVAP, 2D FTP/EVAP, AND RUNNING LOSS EVAP: LEV-III E10 GASOLINE. TEST FUEL FOR ORVR FTP/EVAP: TIER3 E10 GASOLINE. COOLING FAN USED FOR 3D FTP, 2D FTP, AND ORVR FTP: ROAD SPEED FAN WITH ENGINE HOOD CLOSED.

Test #	HHNX10044205	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	HHNX10044202	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	07/19/2016	Fuel	Gasoline
Fuel Batch ID	QGLG72	Fuel Calibration Number	1
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	3240	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2175	--

Manufacturer Test Comments MFR 150K TEST (2 DAY EVAP).

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2175	0	0.218	0.3	Pass

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Test #	HHNX10044435	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	HHNX10044432	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/04/2016	Fuel	Gasoline
Fuel Batch ID	QGLG74	Fuel Calibration Number	1
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	3312	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2016	--

Manufacturer Test Comments MFR 150K TEST (3 DAY EVAP).

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2016	0	0.202	0.3	Pass

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Test #	HHNX10044204	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	HHNX10044203	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	07/13/2016	Fuel	Gasoline
Fuel Batch ID	QWTG71	Fuel Calibration Number	1
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	3220	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0133	--

Manufacturer Test Comments MFR 150K TEST (ORVR).

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.013	0	0.01	0.2	Pass

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Test #	HHNX10044436	Test Procedure	37 - California Fuel Running Loss
Exhaust Test # for this Evap Test	HHNX10044432	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	08/04/2016	Fuel	Gasoline
Fuel Batch ID	QGLG74	Fuel Calibration Number	1
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	3295	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

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

Manufacturer Test Comments MFR 150K TEST (RL).

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

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Test #	HHNX10044298	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	06/10/2016	Fuel	Gasoline
Fuel Batch ID	HGLG61	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
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0044	--

Manufacturer Test Comments EVAP Canister 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	0.0044	0	0.004	0.02	Pass

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	EPCT2C / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	PHNXV02.02EC	Original Evaporative/Refueling Family	PHNXR0122AAA						
Original Test Vehicle Model Year	2023								
Vehicle Model									
Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	HR-V AWD						
Leak Family Details									
Leak Family Identifier	A00	Leak Family Name	PHNXR0122AAA-A00						
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> </tbody> </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 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	1.009						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	PCT1C1	Rated Horsepower	158						
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 equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3343	Equivalent Test Weight (pounds)	3625						
GVWR (lbs)	--	N/V Ratio	28.3						
Axle Ratio	5.44								
Transmission Type	Continuously Variable	# of Transmission Gears	1						
Transmission Lockup	Yes	Creeper Gear	No						

Certification Summary Information Report

Test Group		VHNXV02.02EC			Evaporative/Refueling Family			VHNXR0122DAA
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	37.65	-0.0204	0.02573	9.44	0.308	0.02093	13.5	
Cold CO	41.42	-0.0224	0.0283	7.05	0.2327	0.02419	N/A	
US06	37.65	-0.0204	0.02573	9.44	0.308	0.02093	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	MULTI MODE: SNOW, D-AUTO. TIRE: 215/60R17. Set coefficients for SC03 test: A 9.13, B 0.2858, C 0.02157							

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNR0122DAA
Test #	PHNX10073121	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	11/23/2021	Fuel	Gasoline
Fuel Batch ID	QAL215	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	5247	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)	342.41	--
FE BAG 1 (Bag 1 Fuel Economy)	25.3	25.3
CO2 BAG 2 (Bag 2 Carbon Dioxide)	357.6	--
FE BAG 2 (Bag 2 Fuel Economy)	24.3	24.3
CO2 BAG 3 (Bag 3 Carbon Dioxide)	312.83	--
FE BAG 3 (Bag 3 Fuel Economy)	27.8	27.8
METHANE (CH4 - Methane)	0.00074	--
CO (Carbon Monoxide)	0.484	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0751079	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2951799	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.1356938	--
HCHO (Formaldehyde)	0.00026	--
MFR FE (Manufacturer Fuel Economy)	25.4	25.4
NOX (Nitrogen Oxide)	0.0055	--
HC-NM (Non-methane Hydrocarbon)	0.0052	--
NMOG (Non-methane organic gases)	0.00572	--
PM (Particulate Matter)	0.0003	--
HC-TOTAL (Total Hydrocarbon)	0.00578	--

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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	342.9	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	342.16	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.09907) 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 30	CO	0.48	--	--	--	0.23	--	0.7	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.85	--	--	--	--	--	0.8	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0.0003	--	--	--	0.0002	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0057	--	1.09907	--	0.0035	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0112	--	1.09907	--	--	--	0.016	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0137	--	1.09907	--	--	--	0.014	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0055	--	--	--	0.0015	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0	--	0	0.003	Pass

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Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Test #	PHNX10073125	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	11/12/2021	Fuel	Gasoline
Fuel Batch ID	QAW173	Fuel Calibration Number	108
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	5059	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)	415.33	--
FE BAG 1 (Bag 1 Fuel Economy)	20.5	20.5
CO2 BAG 2 (Bag 2 Carbon Dioxide)	383.42	--
FE BAG 2 (Bag 2 Fuel Economy)	22.5	22.5
CO2 BAG 3 (Bag 3 Carbon Dioxide)	329.9	--
FE BAG 3 (Bag 3 Fuel Economy)	26.1	26.1
METHANE (CH4 - Methane)	0.00986	--
CO (Carbon Monoxide)	0.992	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7059016	--
DT-EER (Drive Trace Energy Economy Rating)	0.274556	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.1248159	--
HCHO (Formaldehyde)	0.00688	--
MFR FE (Manufacturer Fuel Economy)	22.9	22.9
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.1376	--
HC-TOTAL (Total Hydrocarbon)	0.14712	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	377.3	--

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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	375.33	--

Manufacturer Test Comments MFR 4K TEST (Cold 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	50,000 miles	Federal Tier 3 Bin 30	CO	0.99	--	--	--	0.08	--	1.1	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.14	--	--	--	0	--	0.1	0.2	Pass

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNR0122DAA
Test #	PHNX10073122	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	11/24/2021	Fuel	Gasoline
Fuel Batch ID	QAL215	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	5337	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)
METHANE (CH4 - Methane)	0.00062	--
CO (Carbon Monoxide)	0.641	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.5050796	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0797651	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6205484	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	34.4	34.4
NOX (Nitrogen Oxide)	0.0012	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.00019	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	253.3	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	252.33	--

Manufacturer Test Comments

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

Certification Summary Information Report

Test Group		VHNXV02.02EC				Evaporative/Refueling Family				VHNXR0122DAA		
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 30	CREE	999	--	--	--	0.31	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	0.0035	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0012	--	1.03	--	--	--	0.006	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0012	--	--	--	0.0015	--	0.003	999.999	Pass

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

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNR0122DAA
Test #	PHNX10073123	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	11/24/2021	Fuel	Gasoline
Fuel Batch ID	QAL215	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	5364	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)	456.4	--
FE BAG 1 (Bag 1 Fuel Economy)	19	19
CO2 BAG 2 (Bag 2 Carbon Dioxide)	310.56	--
FE BAG 2 (Bag 2 Fuel Economy)	27.9	27.9
METHANE (CH4 - Methane)	0.00031	--
CO (Carbon Monoxide)	0.726	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-4.2089396	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2270058	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.6207575	--
HCHO (Formaldehyde)	0.00009	--
MFR FE (Manufacturer Fuel Economy)	25.3	25.3
NOX (Nitrogen Oxide)	0.0063	--
HC-NM (Non-methane Hydrocarbon)	0.0018	--
NMOG (Non-methane organic gases)	0.00186	--
PM (Particulate Matter)	0.0007	--
HC-TOTAL (Total Hydrocarbon)	0.0021	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	343.9	--

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	342.79	--

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

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 30	CO	0.73	--	--	--	0.23	--	1	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0019	--	1.03	--	0.0035	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0063	--	--	--	0.0015	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0007	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Test #	PHNX10073124	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	12/01/2021	Fuel	Gasoline
Fuel Batch ID	QAL215	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	5475	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)
METHANE (CH4 - Methane)	0.00127	--
CO (Carbon Monoxide)	0.663	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0083576	--
DT-EER (Drive Trace Energy Economy Rating)	0.2405646	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.2560944	--
HCHO (Formaldehyde)	0.00014	--
MFR FE (Manufacturer Fuel Economy)	20.2	20.2
NOX (Nitrogen Oxide)	0.0039	--
HC-NM (Non-methane Hydrocarbon)	0.0028	--
NMOG (Non-methane organic gases)	0.00288	--
HC-TOTAL (Total Hydrocarbon)	0.00404	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	430.4	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	429.37	--

Manufacturer Test Comments

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

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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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 30	CO	0.66	--	--	--	0.23	--	0.9	999.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0029	--	1.03	--	0.0035	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0039	--	--	--	0.0015	--	0.005	999.999	Pass

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Emission Data Vehicle Information

Vehicle ID / Configuration	EPCT2C / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	PHNXV02.02EC	Original Evaporative/Refueling Family	PHNXR0122AAA
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	HR-V AWD
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Leak Family Details

Leak Family Identifier	A00	Leak Family Name	PHNXR0122AAA-A00
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Drive Sources and Fuel System Details

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	1.009
Odometer Correction -- Initial	0	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor	
Odometer Correction Sign	Miles		
Odometer Correction Units	Miles	Rated Horsepower	158
Engine Code	PCT1C1	Air Aspiration Method, if 'Other'	
Displacement (liters)	2	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	2-Wheel Drive, Front
Number of Air Aspiration Devices	--	Aged Emission Components	4,000 (mi)
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	3625
Shift Indicator Light Usage	Not equipped	N/V Ratio	28.3
Curb Weight (lbs)	3343	# of Transmission Gears	1
GVWR (lbs)	--	Creeper Gear	No
Axle Ratio	5.44		
Transmission Type	Continuously Variable		
Transmission Lockup	Yes		

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	37.65	-0.0204	0.02573	9.44	0.308	0.02093	13.5

Emission Control Device Comments --

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Manufacturer Test Vehicle Comments	MULTI MODE: SNOW, D-AUTO. TIRE: 215/60R17.		

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNR0122DAA
Test #	PHNX10073126	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	11/19/2021	Fuel	Gasoline
Fuel Batch ID	2HR21B	Fuel Calibration Number	8
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	5181	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)	344.99	--
FE BAG 1 (Bag 1 Fuel Economy)	25.5	25.5
CO2 BAG 2 (Bag 2 Carbon Dioxide)	361.49	--
FE BAG 2 (Bag 2 Fuel Economy)	24.4	24.4
CO2 BAG 3 (Bag 3 Carbon Dioxide)	315.69	--
FE BAG 3 (Bag 3 Fuel Economy)	27.9	27.9
METHANE (CH4 - Methane)	0.00132	--
CO (Carbon Monoxide)	0.574	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.3967064	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1470156	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.5262143	--
HCHO (Formaldehyde)	0.00049	--
MFR FE (Manufacturer Fuel Economy)	25.5	25.5
NOX (Nitrogen Oxide)	0.0035	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0098	--
NMOG (Non-methane organic gases)	0.01019	--
HC-TOTAL (Total Hydrocarbon)	0.01086	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	346.4	346

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	345.49	--

Manufacturer Test Comments NMOG/NMHC FACTOR(1.04) 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	120,000 miles	Federal Tier 3 Bin 30	CREE	346	--	--	--	0.31	--	346	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0013	--	--	--	0.0027	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0	--	--	--	0	--	0	0.010	Pass

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

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Emission Data Vehicle Information

Vehicle ID / Configuration	EPCT2C / 3	Manufacturer Vehicle Configuration Number	3
Original Test Group Name	PHNXV02.02EC	Original Evaporative/Refueling Family	PHNXR0122AAA
Original Test Vehicle Model Year	2023		

Vehicle Model

Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	HR-V AWD
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Leak Family Details

Leak Family Identifier	A00	Leak Family Name	PHNXR0122AAA-A00
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Drive Sources and Fuel System Details

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	1.009
Odometer Correction -- Initial	0	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor	
Odometer Correction Sign	Miles		
Odometer Correction Units	Miles	Rated Horsepower	158
Engine Code	PCT1C1	Air Aspiration Method, if 'Other'	
Displacement (liters)	2	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	2-Wheel Drive, Front
Number of Air Aspiration Devices	--	Aged Emission Components	4,000 (mi)
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	3625
Shift Indicator Light Usage	Not equipped	N/V Ratio	28.3
Curb Weight (lbs)	3343		
GVWR (lbs)	--	# of Transmission Gears	1
Axle Ratio	5.44	Creeper Gear	No
Transmission Type	Continuously Variable		
Transmission Lockup	Yes		

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	37.65	-0.0204	0.02573	9.44	0.308	0.02093	13.5
US06	37.65	-0.0204	0.02573	9.44	0.308	0.02093	N/A

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	MULTI MODE: NORMAL, D-AUTO. TIRE: 215/60R17.		

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNR0122DAA
Test #	PHNX91004958	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	02/18/2022	Fuel	Gasoline
Fuel Batch ID	28636	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5741	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)	297.1305847	--
FE BAG 1 (Bag 1 Fuel Economy)	29.7621021	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	280.7284241	--
FE BAG 2 (Bag 2 Fuel Economy)	31.5568714	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	260.9274902	--
FE BAG 3 (Bag 3 Fuel Economy)	33.958622	--
METHANE (CH4 - Methane)	0.0029446	--
CO (Carbon Monoxide)	0.3579156	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.8245927	--
DT-EER (Drive Trace Energy Economy Rating)	0.2343681	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3588413	--
MFR FE (Manufacturer Fuel Economy)	31.7770958	--
NOX (Nitrogen Oxide)	0.0051018	--
N2O (Nitrous Oxide)	0.0009358	--
HC-NM (Non-methane Hydrocarbon)	0.009828	--
NMOG (Non-methane organic gases)	0.0102211	--
HC-TOTAL (Total Hydrocarbon)	0.0126028	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	280

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	278.6881714	--

Manufacturer Test Comments None

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 30	CREE	280	--	--	--	0.31	--	280	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0029	--	--	--	0.0027	--	0.006	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0009	--	--	--	0	--	0.001	0.010	Pass

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

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Test #	PHNX91004956	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	02/18/2022	Fuel	Gasoline
Fuel Batch ID	28636	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5752	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)	0.0003869	--
CO (Carbon Monoxide)	0.3536275	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.9342074	--
DT-EER (Drive Trace Energy Economy Rating)	0.0438693	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.0488228	--
MFR FE (Manufacturer Fuel Economy)	43.4050179	--
NOX (Nitrogen Oxide)	0.0015573	--
N2O (Nitrous Oxide)	0.0003547	--
HC-NM (Non-methane Hydrocarbon)	0.0002384	--
NMOG (Non-methane organic gases)	0.0002479	--
HC-TOTAL (Total Hydrocarbon)	0.0006065	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	205

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	203.9128265	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		VHNXV02.02EC				Evaporative/Refueling Family				VHNXR0122DAA		
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 30	CREE	205	--	--	--	0.31	--	205	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0002	--	1.03	--	0.0035	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0018	--	1.03	--	--	--	0.007	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0016	--	--	--	0.0015	--	0.003	999.999	Pass

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

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Fuel Properties			
Fuel Batch ID	HGLG61	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	06/08/2016
Fuel Batch Calibration Effective Date	06/08/2016	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 (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18558
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	QAL215	Fuel Calibration Number	304
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	09/07/2021
Fuel Batch Calibration Effective Date	09/07/2021	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	0.751
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17871
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	QAW173	Fuel Calibration Number	108
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	04/23/2021
Fuel Batch Calibration Effective Date	04/23/2021	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 (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17769
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.822	Weight Fraction CO2	--
Fuel Batch ID	QGLG74	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	07/29/2016
Fuel Batch Calibration Effective Date	07/29/2016	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	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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	28636	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	10/05/2021
Fuel Batch Calibration Effective Date	10/05/2021	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	0.741
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18481
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	Weight Fraction CO2	--
Fuel Batch ID	2HR21B	Fuel Calibration Number	8
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/18/2021
Fuel Batch Calibration Effective Date	11/18/2021	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	0.741
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18556
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	QWTG71	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/05/2016
Fuel Batch Calibration Effective Date	07/05/2016	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	0.746
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18524
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	--

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
Fuel Batch ID	QGLG72	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	07/14/2016
Fuel Batch Calibration Effective Date	07/14/2016	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 (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18562
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	--

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 30
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	--	--	--	--	--	--	0.23	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0002	0.004
150,000 miles	NMOG	--	--	1.09907	--	--	--	0.0035	999.999
150,000 miles	NMOG+NOX	--	--	1.09907	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	1.09907	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0015	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 30
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	--	--	--	--	--	--	0.23	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0035	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0015	999.999

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 30
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	--	--	--	--	--	--	0.23	999.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0035	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0015	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 30
Fuel	Gasoline	Test Procedure	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.31	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0027	0.030
120,000 miles	N2O	--	--	--	--	--	--	0	0.010

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 30
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	--	--	--	--	--	--	0.31	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0035	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0015	999.999

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 30
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	--	--	--	--	--	--	0.08	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.2

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA		
Evaporative/Refueling Family	VHNXR0122DAA	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	--	0.300	0
Evaporative/Refueling Family	VHNXR0122DAA	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	--	0.300	0
Evaporative/Refueling Family	VHNXR0122DAA	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	VHNXR0122DAA	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
Evaporative/Refueling Family	VHNXR0122DAA	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
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	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		
Certification Region			

Certification Summary Information Report

Test Group	VHNXV02.02EC	Evaporative/Refueling Family		VHNXR0122DAA
CA	California + CAA Section 177 states	FA	Federal	
Exhaust Emission Standard Level				
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125	

Certification Summary Information Report

Test Group		VHNXV02.02EC	Evaporative/Refueling Family	VHNXR0122DAA
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70
Transmission Type Code				
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual	
A	Automatic	OT	Other	
AM	Automated Manual	SA	Semi-Automatic	
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
Drive System Code				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
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	