

Application for Certification - Part 1
2027 Model Year

Durability Group

Test Group

EVAP/Refueling Family

VHNXGPGNN8EA
VHNXV02.0FEK
VHNXR0122DAA

Carline Name (Code)

CIVIC 4Dr (01005)
CIVIC 5Dr (01009)

Model Name

CIVIC SEDAN (LX, SPORT)
CIVIC HATCHBACK (SPORT)

Vehicle Description

Vehicle Class

(Federal)
(California)

LDV
Not applicable

Combustion Cycle

Otto Cycle / 4 Stroke

Fuel Type / System

Gasoline / Direct Fuel Injection

Catalyst Code

TW-141, TW-142

Engine

2.0 Liter / L4

Applicable Standards

Exhaust Emissions

(Federal)
(California)

Interim Tier 4 BIN 30
Not applicable

150k Mile

Evaporative Emissions

(Federal)
(California)

Tier3
Not applicable

150k Mile

Refueling Emissions

(Federal)
(California)

Tier 3
Not applicable

150k Mile

Exhaust Durability

DDV Configuration

DSMD1C-00

Bench Age (HMA-IIRA)

EVAP/Refueling Durability

DDV Configuration

N/A. Aged components.

Bench Age

Emission Data Vehicles

EDV Configuration

ESMD3C-00	FTP (E10)	SHNX10085425
		SHNX91005922
	HWY (E10)	SHNX91005926
	US06 (E10)	SHNX91005927
	SC03 (E10)	SHNX10085419
	Cold CO (E10)	SHNX10085428
EHPH2C-00	3D EVAP	HHNX10044435
	R/L	HHNX10044436
	2D EVAP	HHNX10044205
	CANISTER BLEED	HHNX10044298
	ORVR	HHNX10044204

EPA Response Requested by: June 22, 2026
CARB Response Requested by: July 24, 2026
For Questions, Contact: Jesse Deeter, (937) 620-5517

Honda Motor Co., Ltd.

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02.00.00.00	Durability Group Description
	Refer to 02.00.00.00 ² of Part 1 common section.
03.00.00.00	Evaporative(EVAP)/Refueling Family Description
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04.00.00.00	Durability Procedure Description
04.01.00.00	Durability demonstration procedures for exhaust emissions
	Refer to 04.01.00.00 ⁴ of Part 1 common section and 16.04.01.00 ⁴ of this Part 1 application.
04.02.00.00	Durability demonstration procedures for EVAP/refueling emissions
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04.03.00.00	Deterioration Factor (DF) information
	Refer to Certification Summary Information Report.
04.04.00.00	Equivalency Factor (EF) information

Catalyst Location		Close Coupled
Equivalency	ARC/SRC	0.645361
Factor (EF)	SRC/ARC	1.549521
Useful Life Miles		150000
Reference Temp °C (Tr)		830
In-Use Correction Factor		1.1
Catalyst Temp Sensitivity (R)		17500

¹ Correspondence and Communications

² Durability Group Description

³ Evaporative(EVAP)/Refueling Family Description

⁴ Durability demonstration procedures for exhaust emissions

⁵ Durability demonstration procedures for EVAP/refueling emissions

05.00.00.00 Test Group Description

Test Group Name		VHNV02.0FEK
Model Name		CIVIC SEDAN
		CIVIC HATCHBACK
Engine Displacement (CID)		122
Number of Cylinders		4
Arrangement of Cylinders		In-line
Vehicle Class	Federal	LDV
	California	Not applicable
Exhaust Emission Standards Class	Federal	Interim Tier 4 BIN 30
	California	Not applicable
EVAP Emission Standards Class	Federal	Tier3
	California	Not applicable
Applicable Emission Standards		1)

1) Refer to Certification Summary Information Report.

06.00.00.00 Test Vehicle Description

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

Test Purpose	Exhaust	
Test Vehicle Type	DDV	EDV
Test Vehicle Number	DSMD1C	ESMD3C
Configuration Number	00	00
Emission Control System	TWC, WR-HO2S, HO2S, DFI, EGR, EGRC	

Test Purpose	EVAP/ORVR	
Test Vehicle Type	DDV	EDV
Test Vehicle Number	N/A	EHPH2C
Configuration Number	N/A	00

07.00.00.00

Test Results

(a) EPA CSI

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

Manufacturer	American Honda Motor Co., Inc.	Manufacturer Code	HNX
Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/13/2026 02:12:04 AM
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	Spark Ignition Direct 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	VHNXGPGNN8EA	Durability Group Equivalency Factor	0.6
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	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: 30.4, EPA City Litmus Threshold: 29.3, EPA Highway Litmus Value: 36.9, EPA Highway Litmus Threshold: 36.2. Update after EPA confirmatory test.		
Mfr Exhaust / Evap Standards Comments	--		

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA
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
VHNXR0122DAA-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	9 - CIVIC 5Dr	California + CAA Section 177 states	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	7	Yes
American Honda Motor Co., Inc.	1 - Honda	5 - CIVIC 4Dr	California + CAA Section 177 states	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	7	Yes
American Honda Motor Co., Inc.	1 - Honda	5 - CIVIC 4Dr	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	Yes
American Honda Motor Co., Inc.	1 - Honda	5 - CIVIC 4Dr	Federal	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	7	Yes
American Honda Motor Co., Inc.	1 - Honda	9 - CIVIC 5Dr	Federal	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	7	Yes
American Honda Motor Co., Inc.	1 - Honda	5 - CIVIC 4Dr	Federal	2-Wheel Drive, Front	Continuously Variable	1	Yes

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA	
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	
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	150	
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	Air fuel	Air/Fuel Sensor # 2 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes	
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--	
Closed Loop Air Injection System	No			
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	--			

Test Group		VHNXV02.0FEK				Evaporative/Refueling Family			VHNXR0122DAA		
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		SHNX91005922	SHNX91005927	SHNX10085419	SHNX10085428	SHNX91005926	137.2	228.2	999.9	286.1	--
SFTP LEV-III Official Test Numbers											
Test Group Fuel		FTP		US06		SC03					
Gasoline		SHNX91005922		SHNX91005927		SHNX10085419					

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA					
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					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
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	0.985					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	HPH1C1	Rated Horsepower	186					
Displacement (liters)	2.4							
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)	3437	Equivalent Test Weight (pounds)	3750					
GVWR (lbs)	--	N/V Ratio	24.9					
Axle Ratio	5.05							
Transmission Type	Continuously Variable	# of Transmission Gears	1					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	47.17	-0.3978	0.02944					
	11.97	0.2022	0.02206					
EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients								
	13.5							
Emission Control Device Comments	--							

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA						
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									
<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>0.2175</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)	0.2175	--
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	0.000	0.218	0.300	Pass	

Test Group	VHNXV02.0FEK	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									
<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>0.2016</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)	0.2016	--
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	0.000	0.202	0.300	Pass	

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA						
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									
<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>0.0133</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)	0.0133	--
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	0.00	0.01	0.20	Pass	

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA						
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									
<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 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	0.000	0.00	0.00	0.05	Pass	

Test Group	VHNXV02.0FEK	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						
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									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0044</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0044	--
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	0.000	0.004	0.020	Pass	

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA					
Emission Data Vehicle Information								
Vehicle ID / Configuration	ESMD3C / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	SHNXV02.0FEK	Original Evaporative/Refueling Family	SHNXR0122AAA					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	CIVIC 5Dr					
Leak Family Details								
Leak Family Identifier	A00	Leak Family Name	SHNXR0122AAA-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 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	0.998					
Odometer Correction -- Initial	0							
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	SMD1C1	Rated Horsepower	150					
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	N/A	Aged Emission Components	4,000 (mi)					
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	3250					
Curb Weight (lbs)	2975	N/V Ratio	26					
GVWR (lbs)	3946							
Axle Ratio	4.68							
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	7					
Transmission Lockup	Yes	Creep Gear	No					

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA
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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	30.68	-0.1568	0.02095	6.58	0.0524	0.01747	10
Cold CO	33.75	-0.1725	0.02305	2.57	-0.004	0.0196	N/A
US06	30.68	-0.1568	0.02095	6.58	0.0524	0.01747	N/A

Emission Control Device Comments--

Manufacturer Test Vehicle CommentsMULTI MODE: D-Auto, Normal, TIRE: 235/40R18

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA
Test #	SHNX10085425	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	03/20/2024	Fuel	Gasoline
Fuel Batch ID	QRL235	Fuel Calibration Number	611
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	4423	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)	230.17	--
FE BAG 1 (Bag 1 Fuel Economy)	37.5	37.5
CO2 BAG 2 (Bag 2 Carbon Dioxide)	211	--
FE BAG 2 (Bag 2 Fuel Economy)	41	41
CO2 BAG 3 (Bag 3 Carbon Dioxide)	194.07	--
FE BAG 3 (Bag 3 Fuel Economy)	44.5	44.5
METHANE (CH4 - Methane)	0.00241	--
CO (Carbon Monoxide)	0.284	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0236588	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0391306	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.0780225	--
HCHO (Formaldehyde)	0.00017	--
MFR FE (Manufacturer Fuel Economy)	41.2	41.2
NOX (Nitrogen Oxide)	0.0042	--
HC-NM (Non-methane Hydrocarbon)	0.0035	--
NMOG (Non-methane organic gases)	0.00382	--
PM (Particulate Matter)	0.0003	--
HC-TOTAL (Total Hydrocarbon)	0.0058	--

Test Group		VHNXV02.0FEK				Evaporative/Refueling Family				VHNXR0122DAA		
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		213.9		999						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		210.32		--						
Manufacturer Test Comments		NMOG/NMHC FACTOR(1.09978) 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 30	CO	0.28	--	--	--	0.19	--	0.5	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0.0002	--	--	--	0.0001	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0038	--	1.09978	--	0.0020	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0080	--	1.09978	--	--	--	0.011	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0042	--	--	--	0.0007	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0.0001	--	0.000	0.003	Pass

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA																																																			
Test #	SHNX10085428	Test Procedure	11 - Cold CO																																																			
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)																																																			
Test Date	03/26/2024	Fuel	Gasoline																																																			
Fuel Batch ID	QAW225	Fuel Calibration Number	402																																																			
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	4512	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(999) IS APPLIED. MFR 4K TEST (Cold FTP).																																																					

Test Group		VHNXV02.0FEK				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	50,000 miles	Federal Tier 3 Bin 30	CO	0.33	--	--	--	0.06	--	0.4	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.00	--	--	--	0.00	--	0.0	0.2	Pass

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA
Test #	SHNX91005922	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/22/2024	Fuel	Gasoline
Fuel Batch ID	41630	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	4817	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)	236.9552307	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	212.3046265	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	198.2405701	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0030223	--
CO (Carbon Monoxide)	0.2565284	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.6577604	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1067754	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6784778	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0048028	--
N2O (Nitrous Oxide)	0.0000973	--
HC-NM (Non-methane Hydrocarbon)	0.0020587	--
NMOG (Non-methane organic gases)	0.0022641	--
PM (Particulate Matter)	0.0002625	--
HC-TOTAL (Total Hydrocarbon)	0.0050523	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Test Group		VHNXV02.0FEK				Evaporative/Refueling Family				VHNXR0122DAA		
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		213.5447845		--						
Manufacturer Test Comments		None Unrounded Result for the following test results were modified by Verify: FE BAG 3, FE BAG 1, FE BAG 2, MFR FE										
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	0.26	--	--	--	0.19	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.63	--	--	--	--	--	0.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0023	--	1.09978	--	0.0020	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0071	--	1.09978	--	--	--	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0104	--	1.09978	--	--	--	0.010	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0048	--	--	--	0.0007	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0.0001	--	0.000	0.003	Pass

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA																																				
Test #	SHNX91005926	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																				
Test Date	05/22/2024	Fuel	Gasoline																																				
Fuel Batch ID	41630	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	4829	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																																				
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Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																					
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																					
Carbon dioxide	153.9947052	--																																					
Manufacturer Test Comments	None																																						

Test Group		VHNXV02.0FEK				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	--	--	--	0.25	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	1.03	--	0.0020	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0004	--	1.03	--	--	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0004	--	--	--	0.0007	--	0.001	999.999	Pass

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

Test Group	VHNV02.0FEK	Evaporative/Refueling Family	VHNV0122DAA
Test #	SHNV91005927	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/29/2024	Fuel	Gasoline
Fuel Batch ID	41630	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	4877	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)	361.8817444	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	217.0470276	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	--	
METHANE (CH4 - Methane)	0.0012899	--	
CO (Carbon Monoxide)	0.4634396	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.1425827	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.1669739	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.2728665	--	
MFR FE (Manufacturer Fuel Economy)	999	--	
NOX (Nitrogen Oxide)	0.0027183	--	
N2O (Nitrous Oxide)	0.0001128	--	
HC-NM (Non-methane Hydrocarbon)	0.0026759	--	
NMOG (Non-methane organic gases)	0.0027562	--	
PM (Particulate Matter)	0.0002168	--	
HC-TOTAL (Total Hydrocarbon)	0.0039701	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	249.2975464	--	
Manufacturer Test Comments			
None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2			

Test Group		VHNXV02.0FEK				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	150,000 miles	Federal Tier 3 Bin 30	CO	0.4634	--	--	--	0.19	--	0.653	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0028	--	1.03	--	0.0020	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0027	--	--	--	0.0007	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0002	--	--	--	0.0001	--	0.000	0.006	Pass

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNR0122DAA																																				
Test #	SHNX10085419	Test Procedure	95 - SC03																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																				
Test Date	03/20/2024	Fuel	Gasoline																																				
Fuel Batch ID	QRL235	Fuel Calibration Number	611																																				
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	4473	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(1.03) IS APPLIED. MFR 4K TEST (SC03).																																						

Test Group		VHNXV02.0FEK				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	150,000 miles	Federal Tier 3 Bin 30	CO	0.6030	--	--	--	0.19	--	0.793	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0008	--	1.03	--	0.0020	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0091	--	--	--	0.0007	--	0.010	999.999	Pass

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA
Fuel Properties			
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	--
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	41630	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	04/24/2024
Fuel Batch Calibration Effective Date	04/24/2024	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	0.749
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17910
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	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	QAW225	Fuel Calibration Number	402
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	07/08/2022
Fuel Batch Calibration Effective Date	07/08/2022	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Test Group	VHNXV02.0FEK	Evaporative/Refueling Family	VHNXR0122DAA
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.748
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17961
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	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	--
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	--
Fuel Batch ID	QRL235	Fuel Calibration Number	611
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	08/10/2023
Fuel Batch Calibration Effective Date	08/10/2023	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 (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17975
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	--

Test Group		VHNXV02.0FEK			Evaporative/Refueling Family			VHNXR0122DAA		
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			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	--	--	--	--	--	--	0.19	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0020	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0007	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006	
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	--	--	--	--	--	--	0.25	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0020	999.999	
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0007	999.999	

Test Group		VHNXV02.0FEK			Evaporative/Refueling Family			VHNXR0122DAA	
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	--	--	--	--	--	--	0.19	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0001	0.004
150,000 miles	NMOG	--	--	1.09978	--	--	--	0.0020	999.999
150,000 miles	NMOG+NOX	--	--	1.09978	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	1.09978	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0007	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 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	--	--	--	--	--	--	0.19	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0020	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0007	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	--	--	--	--	--	--	0.06	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.2

Evaporative/Refueling Standards

Test Group		VHNXV02.0FEK		Evaporative/Refueling Family		VHNXR0122DAA	
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	0.00		
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	0.000		
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	0.00		
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	0.000		
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	0.000		

Test Group		VHNXV02.0FEK	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		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

Test Group		VHNXV02.0FEK	Evaporative/Refueling Family		VHNXR0122DAA
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Test Group		VHNXV02.0FEK	Evaporative/Refueling Family		VHNXR0122DAA
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Test Group		VHNXV02.0FEK	Evaporative/Refueling Family		VHNXR0122DAA
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	

08.00.00.00	Waiver Statements
	Refer to 08.00.00.00 ¹ of Part 1 common section.
09.00.00.00	OBD System Description
	Refer to 09.00.00.00 ² of Part 1 common section and 16.09.00.00 ² of this Part 1 application.
10.00.00.00	Description of Alternate-fueled Vehicles
	Not applicable
11.00.00.00	AECD Descriptions
	Description and justification of AECD
	Refer to 16.11.01.00 ³ of this Part 1 application.

¹ Waiver Statements

² OBD System Description

³ General description of AECDs

12.00.00.00 Description of vehicles covered by certificate and test parameters

12.01.00.00 Vehicle parameters

Carline name (Code)			CIVIC 4Dr (01005)	
Model Name			CIVIC SEDAN	
			LX	SPORT
Vehicle Classification		Federal	LDV	
		California	Not applicable	
Emission Control System Description	Catalyst	Code	TW-141	
		Type/Number/Configuration	1)	
	EGR	Type	Electric Lift Type	
	Air Pump	Type	Not Applicable	
	Fuel System	Type	Direct Fuel Injection	
	Intake Air Aspiration	Method	Naturally aspirated	
	Other		Not Applicable	
Engine Code			VMD1C1	
Number of Valves per Cylinder			4	
Engine Displacement (CID)			122	
Sales Area			50States	
Transmission			CVT	CVT w/Paddle
Overdrive			Yes	
SIL			Not Applicable	
Tire Size			215/55R16 93H	235/40R18 91W
N/V Ratio			26.1	26.0
ETW (lbs)			3125 3250	3,250
EVAP Canister Nominal Working Capacity (g)			122	
EVAP Canister Volume (cc)			1,992	
Fuel Tank Capacity (gallon)			12.4	
Active Grill Shutter			Not Applicable	

1) Refer to 16.02.01.00¹ of Part 1 common section.

¹ Catalyst specifications

Carline name (Code)			CIVIC 5Dr (01009)
Model Name			CIVIC HATCHBACK
			SPORT
Vehicle Classification		Federal	LDV
		California	Not applicable
		Code	TW-142
Emission Control System Description	Catalyst	Type/Number/ Configuration	1)
	EGR	Type	Electric Lift Type
	Air Pump	Type	Not Applicable
	Fuel System	Type	Direct Fuel Injection
	Intake Air Aspiration	Method	Naturally aspirated
	Other		Not Applicable
Engine Code			VMD2C1
Number of Valves per Cylinder			4
Engine Displacement (CID)			122
Sales Area			50States
Transmission			CVT w/Paddle
Overdrive			Yes
SIL			Not Applicable
Tire Size			235/40R18 91W
N/V Ratio			26.0
ETW (lbs)			3,250
EVAP Canister Nominal Working Capacity (g)			122
EVAP Canister Volume (cc)			1,992
Fuel Tank Capacity (gallon)			12.4
Active Grill Shutter			Not Applicable

1) Refer to 16.02.01.00¹ of Part 1 common section.

¹ Catalyst specifications

12.02.00.00 Test parameters and special test procedure

12.02.01.00 Engine starting procedures

Refer to 12.02.01.00¹ of Part 1 common section.

12.02.02.00 Shift schedule

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

(1) For Automatic mode

Use "D" position.

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

(2) For Manual mode

Not applicable for certification test.

(3) EV-CIS shift schedule ID

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

(4) Test condition

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

12.02.03.00 Engine Oil

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

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

12.02.04.00

Dynamometer loading information - Road force and dynamometer setting specifications

Trans mission	Model Name	ETW	Tire Size	Target Coefficient Standard	Target Coefficient Cold
CVT	CIVIC SEDAN LX	3,125	215/55R16 93H (BS)	A: 27.31 B: -0.1669 C: 0.01902	A: 30.04 B: -0.1836 C: 0.02092
			215/55R16 93H (HK)	A: 27.55 B: -0.1589 C: 0.01902	A: 30.30 B: -0.1748 C: 0.02092
		3,250	215/55R16 93H (BS)	A: 27.94 B: -0.1653 C: 0.01902	A: 30.73 B: -0.1818 C: 0.02092
			215/55R16 93H (HK)	A: 28.19 B: -0.1570 C: 0.01902	A: 31.01 B: -0.1727 C: 0.02092
CVT w/Paddle	CIVIC SEDAN SPORT	3,250	235/40R18 91W (GY)	A: 30.97 B: -0.1584 C: 0.01976	A: 34.07 B: -0.1742 C: 0.02174
	CIVIC HATCHBACK SPORT	3,250	235/40R18 91W (GY)	A: 30.68 B: -0.1568 C: 0.02095	A: 33.75 B: -0.1725 C: 0.02305

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

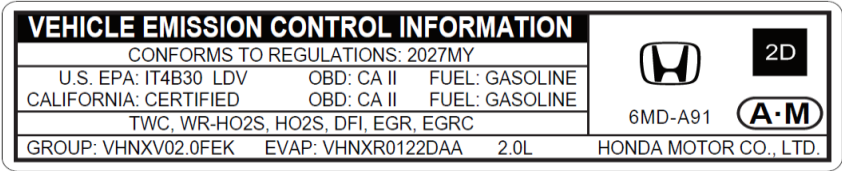
12.02.05.00

Fuel Tank Temperature Profile (FTTP)

Refer to 16.12.00.00 of this Part 1 application.

12.03.00.00

Emission control label



¹ Fuel Tank Temperature Profile (FTTP)

13.00.00.00	Projected Sales
	Refer to 13.00.00.00 ¹ of Part 1 common section.
14.00.00.00	Request for Approval
14.01.00.00	Request for certificate
	Honda Motor Co., Ltd. requests that EPA issues a certificate of conformity, signed by an authorized representative, for the combination of the test group (refer to 05.00.00.00 ² of this Part 1 application) and EVAP/refueling family (refer to 03.00.00.00 ³ of this Part 1 application).
	For the applicable test results, refer to 07.00.00.00 ⁴ of this Part 1 application.
14.02.00.00	Request for Executive Order
	Honda Motor Co., Ltd. requests that California Air Resources Board issues an Executive Order, signed by an authorized representative, for the combination of the test group (refer to 05.00.00.00 ² of this Part 1 application) and EVAP/refueling family (refer to 03.00.00.00 ³ of this Part 1 application).
	For the applicable test results, refer to 7.00.00.00 ⁴ of this Part 1 application.
14.03.00.00	Statement of compliance
	Refer to 14.03.00.00 ⁵ of Part 1 common section.
15.00.00.00	Other Information
15.01.00.00	Fee filing form

¹ Projected sales information

² Test Group Description

³ Evaporative(EVAP)/Refueling Family Description

⁴ Test Results

⁵ Statement of compliance

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 04/21/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

HNX

Manufacturer Name *

American Honda Motor Co., Inc.

Contact Name *

Mitchell Poeung

Contact Email Address *

mitchell_poeung@na.honda.com

Contact Phone *

310-701-5605

Calendar Year complete application submitted
to EPA *

2026

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

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

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Engine Family / Evaporative Family / Test Group *

VHNV02.0FEK

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Amount Owed

\$32,317.00

Payment Type *

Offline ACH

Comments

Model(s): Civic 4D 2.0L and Civic 5D 2.0L

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027



The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.