

Certification Summary Information Report

Manufacturer	American Honda Motor Co., Inc.	Manufacturer Code	HNX
Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
Certificate Number	VHNXT03.5R4C-007	CARB Executive Order #	--
Certificate Issue Date	06/18/2026	Certificate Revision Date	--
Certificate Effective Date	06/18/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	05/28/2026 08:37:49 PM
Model Year	2027		

Test Group Information

CSI Type	New	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	LDT3
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	VHNXGPGNN8AA	Durability Group Equivalency Factor	0.2
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	08/10/2026	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	VHNXT03.5CCC
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 E0 fuel. EPA City Litmus Value: 18.6, EPA City Litmus Threshold: 18.5, EPA Highway Litmus Value: 26.6, EPA Highway Litmus Threshold: 26.3 (Test number for Litmus Judgement areFTP:JHNX10046399, HWY:JHNX10046400, US06:JHNX10046178, SC03:JHNX10046367, Cold:JHNX10046368)		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	05/25/2026 09:19:46 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	PE-HD/EVOH				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	150	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	--						
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				
VHNXR0150FAA-A00	50 State	0.02	--				
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	201 - ODYSSEY FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Semi-Automatic	10	Yes
American Honda Motor Co., Inc.	1 - Honda	201 - ODYSSEY FWD	Federal	2-Wheel Drive, Front	Semi-Automatic	10	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	0W-20				
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N				

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Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Palladium + Rhodium	Ceramic
3	Three-way catalyst	Palladium + Rhodium	Ceramic
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)	3.5	Engine Rated Horsepower	280
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	Yes		
Cylinder Deactivation Description	Variable Cylinder Management (VCM) system is applied.		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Variable valve Timing and lift Electronic Control (VTEC) system is applied.		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	Variable valve Timing and lift Electronic Control (VTEC) system is applied.		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated air fuel	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated air fuel	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	No
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

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Test Group		VHNXT03.5R4C				Evaporative/Refueling Family			VHNXR0150FAA		
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		SHNX10084822	SHNX10084824	SHNX10084825	SHNX10084826	SHNX10084823	21.8	228.2	34.1	286.1	--
SFTP LEV-III Official Test Numbers											
Test Group Fuel		FTP			US06		SC03				
Gasoline		SHNX10084822			SHNX10084824		SHNX10084825				

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
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Emission Data Vehicle Information

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

Vehicle Model

Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	ODYSSEY FWD
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Leak Family Details

Leak Family Identifier	A00	Leak Family Name	JHNXR01502SA-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 -- Initial	0	Odometer Correction Factor	1.006
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	JMR1A1	Rated Horsepower	280
Displacement (liters)	3.5		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	4588	Equivalent Test Weight (pounds)	5000
GVWR (lbs)	--	N/V Ratio	22.5
Axle Ratio	3.61		
Transmission Type	Semi-Automatic	# of Transmission Gears	10
Transmission Lockup	Yes	Creep Gear	No

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	35.87	-0.0473	0.0276	15.28	-0.2113	0.02765	13.7

Emission Control Device Comments --

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Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA						
Manufacturer Test Vehicle Comments	DRIVE MODE: ECON OFF, D-AUTO TIRE: 235/55R19 101H PARKING BRAKE MUST BE APPLIED ON DYNO. STARTING PROCEDURE PROVIDED IN VEHICLE. COOLING FAN USED FOR CITY : ROAD SPEED FAN WITH ENGINE HOOD CLOSED.								
Test #	JHNX10046191	Test Procedure	27 - California fuel 2-day evap						
Exhaust Test # for this Evap Test	JHNX10046188	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	12/13/2016	Fuel	Gasoline						
Fuel Batch ID	QGLGC1	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	3239	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>0.1229</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)	0.1229	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1229	--							
Manufacturer Test Comments	MFR 150K TEST (2DAY EVAP)								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.1229	--	0.123	0.5	Pass	

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA						
Test #	JHNX10046192	Test Procedure	38 - CA fuel 3-day evap.						
Exhaust Test # for this Evap Test	JHNX10046189	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	12/08/2016	Fuel	Gasoline						
Fuel Batch ID	QGLGC1	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	3201	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>0.1065</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)	0.1065	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1065	--							
Manufacturer Test Comments									
MFR 150K TEST (3DAY EVAP).									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.1065	--	0.106	0.5	Pass	

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA						
Test #	JHNX10046193	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	JHNX10046190	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	12/07/2016	Fuel	Gasoline						
Fuel Batch ID	QWTGC1	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	3166	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 (Hydrocarbon for Running Loss and ORVR)</td> <td>0.0141</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC (Hydrocarbon for Running Loss and ORVR)	0.0141	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC (Hydrocarbon for Running Loss and ORVR)	0.0141	--							
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	0.014	--	0.01	0.2	Pass	

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA						
Test #	JHNX10046195	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	JHNX10046189	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	12/08/2016	Fuel	Gasoline						
Fuel Batch ID	QGLGC1	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	3201	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 (Runnning Loss).									
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	0.05	Pass	

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA						
Test #	JHNX10046194	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	09/16/2016	Fuel	Gasoline						
Fuel Batch ID	QGLGC1	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Honda R&D Co., Ltd. Automobile R&D Center (Tochigi)								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	0	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0116</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0116	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0116	--							
Manufacturer Test Comments Bleed Test									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.0116	--	0.012	0.02	Pass	

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	ESMR1A / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SHNXT03.5R4C	Original Evaporative/Refueling Family	SHNXR0150CAA						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	HONDA	Represented Test Vehicle Model	ODYSSEY FWD						
Leak Family Details									
Leak Family Identifier	A00	Leak Family Name	SHNXR0150CAA-A00						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel 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	0.996						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	SMR1A1	Rated Horsepower	280						
Displacement (liters)	3.5								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4593	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	6019	N/V Ratio	22.4						
Axle Ratio	3.61								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VHNXT03.5R4C			Evaporative/Refueling Family		VHNXR0150FAA	
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	35.87	-0.0473	0.0276	15.54	-0.2294	0.02727	13.7	
Cold CO	39.46	-0.052	0.03036	11.77	-0.1959	0.02942	N/A	
US06	35.87	-0.0473	0.0276	15.54	-0.2294	0.02727	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		MULTIMODE: D-AUTO, ECON OFF, TIRE SIZE: 235/55R19 101H						

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Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
Test #	SHNX10084822	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	02/21/2024	Fuel	Gasoline
Fuel Batch ID	AWL242	Fuel Calibration Number	1530
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	American Honda Motor Co., Inc. Ann Arbor Laboratory		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3383	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)	379.68	--
FE BAG 1 (Bag 1 Fuel Economy)	23	23
CO2 BAG 2 (Bag 2 Carbon Dioxide)	390.28	--
FE BAG 2 (Bag 2 Fuel Economy)	22.4	22.4
CO2 BAG 3 (Bag 3 Carbon Dioxide)	317.81	--
FE BAG 3 (Bag 3 Fuel Economy)	27.5	27.5
METHANE (CH4 - Methane)	0.00235	--
CO (Carbon Monoxide)	0.235	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.22483	--
DT-EER (Drive Trace Energy Economy Rating)	0.3334785	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5377965	--
HCHO (Formaldehyde)	0.00055	--
MFR FE (Manufacturer Fuel Economy)	23.7	23.7
NOX (Nitrogen Oxide)	0.0138	--
N2O (Nitrous Oxide)	0.00148	--
HC-NM (Non-methane Hydrocarbon)	0.01108	--
NMOG (Non-methane organic gases)	0.01215	--
PM (Particulate Matter)	0.0004	--
HC-TOTAL (Total Hydrocarbon)	0.01341	--

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Test Group		VHNXT03.5R4C			Evaporative/Refueling Family				VHNXR0150FAA			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		368.4		999						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		368.16		--						
Manufacturer Test Comments		NMOG/NMHC FACTOR(1.09694) 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 70	CO	0.24	--	--	--	0	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.99	--	--	--	--	--	1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	HCHO	0.0006	--	--	--	0.0002	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0122	--	1.09694	--	0.0055	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.026	--	1.09694	--	--	--	0.036	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0327	--	1.09694	--	--	--	0.033	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0138	--	--	--	0.005	--	0.019	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0004	--	--	--	0	--	0	0.003	Pass

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
Test #	SHNX10084826	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	02/23/2024	Fuel	Gasoline
Fuel Batch ID	AGW241	Fuel Calibration Number	401
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	American Honda Motor Co., Inc. Ann Arbor Laboratory		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3456	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)	517.39	--	
FE BAG 1 (Bag 1 Fuel Economy)	16.3	16.3	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	431.28	--	
FE BAG 2 (Bag 2 Fuel Economy)	20	20	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	358.47	--	
FE BAG 3 (Bag 3 Fuel Economy)	24	24	
METHANE (CH4 - Methane)	0.0177	--	
CO (Carbon Monoxide)	1.106	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.1727239	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.0470397	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.0234242	--	
MFR FE (Manufacturer Fuel Economy)	20	20	
HC-NM (Non-methane Hydrocarbon)	0.18401	--	
NMOG (Non-methane organic gases)	0.20237	--	
HC-TOTAL (Total Hydrocarbon)	0.20157	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	431.4	--	

Certification Summary Information Report

Test Group		VHNXT03.5R4C				Evaporative/Refueling Family				VHNXR0150FAA		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		429.14			--					
Manufacturer Test Comments		NMOG/NMHC FACTOR(1.09978) IS APPLIED. 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 70	CO	1.11	--	--	--	0	--	1.1	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.18	--	--	--	0	--	0.2	0.3	Pass

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA																																	
Test #	SHNX10084823	Test Procedure	3 - HWFE																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																	
Test Date	02/21/2024	Fuel	Gasoline																																	
Fuel Batch ID	AWL242	Fuel Calibration Number	1530																																	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	American Honda Motor Co., Inc. Ann Arbor Laboratory																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	3394	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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Carbon dioxide	225.33	--																																		
Manufacturer Test Comments	NMOG/NMHC FACTOR(1.03) IS APPLIED. MFR 4K TEST (HWY).																																			

Certification Summary Information Report

Test Group		VHNXT03.5R4C				Evaporative/Refueling Family				VHNXR0150FAA		
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 70	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0005	--	1.03	--	0.0055	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0048	--	1.03	--	--	--	0.015	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0043	--	--	--	0.005	--	0.009	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	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
Test #	SHNX10084824	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	02/21/2024	Fuel	Gasoline
Fuel Batch ID	AWL242	Fuel Calibration Number	1530
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	American Honda Motor Co., Inc. Ann Arbor Laboratory		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3417	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)	578.73	--
FE BAG 1 (Bag 1 Fuel Economy)	14.7	14.7
CO2 BAG 2 (Bag 2 Carbon Dioxide)	308.7	--
FE BAG 2 (Bag 2 Fuel Economy)	28.1	28.1
METHANE (CH4 - Methane)	0.00466	--
CO (Carbon Monoxide)	3.063	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-8.3572498	--
DT-EER (Drive Trace Energy Economy Rating)	-1.9418465	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-11.0958399	--
MFR FE (Manufacturer Fuel Economy)	23.4	23.4
NOX (Nitrogen Oxide)	0.0131	--
HC-NM (Non-methane Hydrocarbon)	0.01736	--
NMOG (Non-methane organic gases)	0.01788	--
PM (Particulate Matter)	0.001	--
HC-TOTAL (Total Hydrocarbon)	0.02198	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	372.9	--

Certification Summary Information Report

Test Group		VHNXT03.5R4C				Evaporative/Refueling Family				VHNXR0150FAA		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		368.09			--					
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/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	3.063	--	--	--	0	--	3.063	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0179	--	1.03	--	0.0055	--	0.023	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0131	--	--	--	0.005	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.001	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA																																	
Test #	SHNX10084825	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																																	
Test Date	02/21/2024	Fuel	Gasoline																																	
Fuel Batch ID	AWL242	Fuel Calibration Number	1530																																	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	American Honda Motor Co., Inc. Ann Arbor Laboratory																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	3441	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																																	
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Carbon dioxide	466.18	--																																		
Manufacturer Test Comments	NMOG/NMHC FACTOR(1.03) IS APPLIED. MFR 4K TEST (SC03).																																			

Certification Summary Information Report

Test Group		VHNXT03.5R4C				Evaporative/Refueling Family				VHNXR0150FAA		
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 70	CO	0.13	--	--	--	0	--	0.13	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0017	--	1.03	--	0.0055	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0102	--	--	--	0.005	--	0.015	999.999	Pass

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
Fuel Properties			
Fuel Batch ID	AWL242	Fuel Calibration Number	1530
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	02/20/2024
Fuel Batch Calibration Effective Date	02/20/2024	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	0.756
Fuel Ethanol Volume Percent (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17857
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	QGLGC1	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	12/01/2016
Fuel Batch Calibration Effective Date	12/01/2016	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18535
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.863	Weight Fraction CO2	--
Fuel Batch ID	QWTGC1	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/05/2016
Fuel Batch Calibration Effective Date	12/05/2016	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 (%)	9.9	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	AGW241	Fuel Calibration Number	401
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	01/30/2024
Fuel Batch Calibration Effective Date	01/30/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18104
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VHNXT03.5R4C		Evaporative/Refueling Family			VHNXR0150FAA		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
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	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0.0002	0.004
150,000 miles	NMOG	--	--	1.09694	--	--	--	0.0055	999.999
150,000 miles	NMOG+NOX	--	--	1.09694	--	--	1	--	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.09694	--	--	--	--	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.005	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
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	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0055	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.005	999.999

Certification Summary Information Report

Test Group	VHNXT03.5R4C			Evaporative/Refueling Family			VHNXR0150FAA		
Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70		
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	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0055	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.005	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70		
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	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70		
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	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0055	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.005	999.999

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	VHNXT03.5R4C		Evaporative/Refueling Family	VHNXR0150FAA	
Evaporative/Refueling Family	VHNXR0150FAA		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	--	0.500	--
Evaporative/Refueling Family	VHNXR0150FAA		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	--	0.500	--
Evaporative/Refueling Family	VHNXR0150FAA		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	--
Evaporative/Refueling Family	VHNXR0150FAA		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	--
Evaporative/Refueling Family	VHNXR0150FAA		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	--	0.20	--

Certification Summary Information Report

Test Group		VHNXT03.5R4C	Evaporative/Refueling Family	VHNXR0150FAA
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VHNXT03.5R4C	Evaporative/Refueling Family		VHNXR0150FAA
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VHNXT03.5R4C	Evaporative/Refueling Family		VHNXR0150FAA
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VHNXT03.5R4C	Evaporative/Refueling Family		VHNXR0150FAA
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	