

## Certification Summary Information Report

<b>Manufacturer</b>	Environmental Protection Agency	<b>Manufacturer Code</b>	EPA
<b>Test Group</b>	GEPAV02.0VDO	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Certificate Number</b>	GEPAV02.0VDO-001	<b>CARB Executive Order #</b>	N/A
<b>Certificate Issue Date</b>	09/15/2014	<b>Certificate Revision Date</b>	N/A
<b>Certificate Effective Date</b>	09/15/2014	<b>Conditional Certificate</b>	No
<b>CSI Revision #</b>	N/A	<b>CSI Submission/Revision Date</b>	09/23/2014
<b>Model Year</b>	2016		

  

<b>Test Group Information</b>			
<b>CSI Type</b>	Update for Correction	<b>Running Change Reference Number</b>	N/A
<b>GHG Exempt Status</b>	Not Exempt		
<b>Drive Sources and Fuel(s)</b>			
<b>Drive Source #1:</b>	Combustion Engine		
	<b>Fuel</b>	<b>Basic Fuel Metering System</b>	<b>Lean Burn Strategy Indicator</b>
	Gasoline	Multipoint/sequential fuel injection	N

  

<b>Hybrid Indicator</b>	No		
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	--
<b>Fuel Cell Indicator</b>	--	<b>EPA Vehicle Class</b>	LDV
<b>Federal Clean Fuel Vehicle</b>	No	<b>Federal Clean Fuel Vehicle Standard</b>	--
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Durability Group Name</b>	GEPAGPGNND5A	<b>Durability Group Equivalency Factor</b>	1
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA, CA
<b>Complies with HD GHG 2b/3 regulations?</b>	No		
<b>Introduction into Commerce Date</b>	09/30/2014	<b>CAP2000 Conditional Certificate?</b>	No
<b>Independent Commercial Importer?</b>	--	<b>Alternative Fuel Converter Certificate?</b>	--
<b>SFTP Federal Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	--
<b>SFTP LEV-III Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	GEPAV02.0VD9
<b>Mfr Test Group Comments</b>	--		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO		<b>Evaporative/Refueling Family</b>	GEPAR0250ABC	
<b>Evaporative/Refueling Family Information</b>					
<b>Evaporative Summary Information Type</b>	New		<b>Submission/Correction Date</b>	09/04/2014	
<b>Integrated ORVR?</b>	Yes		<b>Fuel(s)</b>	Gasoline	
<b>Multiple Fuel Storage</b>	--				
<b>Bladder Fuel Tank?</b>	No				
<b>Fuel Tank Material</b>	Plastic		<b>Fuel Tank Material Description</b>	plastic	
<b>Fill Pipe Seal Type</b>	Liquid seal				
<b>Air Intake System Vapor Storage Device?</b>	Yes		<b>Air Intake System Vapor Storage Device Description</b>	Carbon HC trap in air induction system	
<b>Fuel System Vapor Storage Canister?</b>	Yes		<b>Other Vapor Storage</b>	1.9L 3-port Rec. + 0. 1L Bleed	
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	110		<b>Number of Primary Canisters</b>	1	
<b>Number of Bleed Canisters</b>	1		<b>Bleed Canister Total Working Capacity (grams)</b>	2	
<b>Mfr Evaporative/Refueling Family Comments</b>	Tier 3 testing				
<b>Leak Family Details</b>					
<b>Leak Family Indicator</b>	Yes				
<b>Canister Bleed Test Indicator</b>	Yes		<b>Applicability of Evaporative Canister Bleed Test</b>	50 State	
<b>Evaporative Canister Bleed Test Comments</b>	--				
<b>CARB Fuel Only (Rig) Test Indicator</b>	No		<b>Applicability of CARB Fuel Only (Rig) Test</b>	--	
<b>CARB Fuel Only (Rig) Test Comments</b>	--				
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>		
GEPAR0250ABC-ABC	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
Environmental Protection Agency	1 - Green	28 - 1000	California + CAA Section 177 states	2-Wheel Drive, Front	Other	6	Yes
Environmental Protection Agency	1 - Green	28 - 1000	Federal	2-Wheel Drive, Front	Semi-Automatic	6	No
Environmental Protection Agency	1 - Green	28 - 1000	California + CAA Section 177 states	2-Wheel Drive, Front	Automated Manual	6	Yes
Environmental Protection Agency	1 - Green	28 - 1000	Federal	2-Wheel Drive, Front	Automated Manual	6	No
Environmental Protection Agency	1 - Green	28 - 1000	Federal	2-Wheel Drive, Front	Manual	5	No
Environmental Protection Agency	1 - Green	28 - 1000	California + CAA Section 177 states	2-Wheel Drive, Front	Manual	5	No
Environmental Protection Agency	1 - Green	28 - 1000	Federal	2-Wheel Drive, Front	Automatic	6	No
Environmental Protection Agency	1 - Green	28 - 1000	Federal	2-Wheel Drive, Front	Other	6	Yes

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO				<b>Evaporative/Refueling Family</b>				GEPAR0250ABC								
<b>Engine Description</b>																	
<b>Hybrid Type</b>	--				<b>Hybrid Description</b>				--								
<b>Engine Type</b>	4-Stroke Spark Ignition				<b>Mfr Engine Description</b>				--								
<b>Engine Block Arrangement</b>	Inline				<b>Mfr Engine Block Arrangement Description</b>				--								
<b>Camless Valvetrain Indicator</b>	No				<b>Oil Viscosity/Classification</b>				10W-40/SJ								
<b>Number of Cylinders/Rotors</b>	4																
<b>After Treatment Device(s) (ATD)</b>																	
<b>ATD Number</b>		<b>ATD Type</b>			<b>ATD Precious Metal</b>			<b>Substrate Material</b>		<b>Substrate Construction</b>							
1		Three-way catalyst			Platinum + Palladium + Rhodium			Ceramic		Monolith							
<b>Mfr After Treatment Device (ATD) Comments</b>																	
--																	
<b>Direct Ozone Reduction (DOR) Device</b>																	
Not Equipped																	
<b>Mfr Emission Control Device Comments</b>																	
--																	
<b>Engine Configuration Number 1</b>																	
<b>Engine Displacement (liters)</b>		2.0			<b>Engine Rated Horsepower</b>				160								
<b>Number of Inlet Valves Per Cylinder</b>		2			<b>Number of Exhaust Valves Per Cylinder</b>				2								
<b>Air Aspiration Method</b>		Naturally Aspirated			<b>Number of Air Aspiration Devices</b>				N/A								
<b>Air Aspiration Device Configuration</b>		--			<b>Charge Air Cooler Type</b>				N/A								
<b>Cylinder Deactivation Description</b>		N/A			<b>Variable Valve Lift System</b>				N/A								
<b>Variable Valve Timing System Description</b>		VVT															
<b>Number of Knock Sensors</b>		2			<b>Air/Fuel Sensor # 1 Description</b>				N/A								
<b>Air/Fuel Sensor # 1 Type</b>		Heated oxygen			<b>Air/Fuel Sensor # 2 Description</b>				N/A								
<b>Air/Fuel Sensor # 2 Type</b>		Heated oxygen															
<b>Mfr Air/Fuel Sensor Comments</b>		--			<b>EGR Type</b>				--								
<b>Exhaust Gas Recirculation</b>		No															
<b>Cooled Exhaust Gas Recirculation</b>		No															
<b>Closed Loop Air Injection System</b>		No			<b>Air Injection Type</b>				--								
<b>Mfr Engine Configuration Comments</b>		2012MY 2.0L MODEL															
<b>Official Test Numbers</b>																	
<b>Test Group Fuel</b>		<b>FTP</b>			<b>US06</b>		<b>SC03</b>		<b>Cold CO</b>		<b>Highway</b>		<b>EPA City Litmus Value</b>	<b>EPA City Litmus Threshold</b>	<b>EPA Highway Litmus Value</b>	<b>EPA Highway Litmus Threshold</b>	<b>CREE Weighting Factor</b>
Gasoline		GEPA10001209			GEPA10001211		GEPA10001214		GEPA10001215		GEPA10001210		18.8	284.3	27.4	628.9	1
<b>SFTP LEV-III Official Test Numbers</b>																	
<b>Test Group Fuel</b>		<b>FTP</b>			<b>US06</b>				<b>SC03</b>								
Gasoline		GEPA10001209			GEPA10001211				GEPA10001214								

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO		<b>Evaporative/Refueling Family</b>	GEPAR0250ABC							
<b>Emission Data Vehicle Information</b>											
<b>Vehicle ID / Configuration</b>	241AZN4042 / 3										
<b>Vehicle Model</b>											
<b>Represented Test Vehicle Make</b>	Green		<b>Represented Test Vehicle Model</b>	2000							
<b>Leak Family Details</b>											
<b>Leak Family Identifier</b>	--		<b>Leak Family Name</b>	--							
<b>Drive Sources and Fuel System Details</b>											
<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									
<b>Hybrid Indicator</b>	N		<b>Multiple Fuel Combustion</b>	--							
<b>Multiple Fuel Storage</b>	--		<b>Rechargeable Energy Storage System Indicator</b>	--							
<b>Fuel Cell Indicator</b>	N		<b>Rechargeable Energy Storage System, if 'Other'</b>	--							
<b>Rechargeable Energy Storage System</b>	--		<b># of Transmission Gears</b>	6							
<b>Off-board charge Capable Indicator</b>	--		<b>Axle Ratio</b>	2.89							
<b>Transmission Type</b>	Semi-Automatic		<b>Rated Horsepower</b>	170							
<b>Engine Code</b>	8		<b>Air Aspiration Method</b>	Naturally Aspirated							
<b>Displacement (liters)</b>	2		<b>SIL Usage</b>	Not equipped							
<b>Equivalent Test Weight (pounds)</b>	3875										
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front										
<b>Aged Emission Components</b>	4,000 (mi)										
<b>Dynamometer Coefficients:</b>											
<b>Target Coefficients</b>			<b>Set Coefficients</b>			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>		<b>C (lbf/mph**2)</b>				
<b>City/Highway/Evap</b>	34.75	0.3538	0.01958	8.41	0.268		0.018				
<b>Cold CO</b>	38.23	0.3892	0.02154	7.63	0.053		0.023				
<b>US06</b>	34.75	0.3538	0.01958	8.41	0.268	0.018	N/A				
<b>Manufacturer Test Vehicle Comments</b>						--					

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001209</b>	<b>Test Procedure</b>	<b>31 - Federal Fuel 3-day Exhaust (Butane load)</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/01/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	LOD		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	22.2	--
Bag 1 Fuel Economy	22.2	22.2
Bag 2 Carbon Dioxide	20.7	--
Bag 2 Fuel Economy	20.7	20.7
Bag 3 Carbon Dioxide	26.5	--
Bag 3 Fuel Economy	26.5	26.5
CH4 - Methane	0.0066299	--
Carbon Monoxide	0.0644535	--
Drive Trace Absolute Speed Change Rating	0.7	--
Drive Trace Energy Economy Rating	1.5	--
Drive Trace Inertia Work Ratio Rating	1.05	--
Formaldehyde	0.0003673	--
Manufacturer Fuel Economy	22.3	22.3
Nitrogen Oxide	0.0065005	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0.0091824	--
Non-methane organic gas (California)	0.0095497	--
Particulate Matter	0.001	--
Total Hydrocarbon	0.0153155	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	397	9999
Optional Carbon-Related Exhaust Emissions	0	9999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	396.86	--

**Manufacturer Test Comments** Tier 3 Testing

## Certification Summary Information Report

Test Group		GEPAV02.0VDO			Evaporative/Refueling Family					GEPAR0250ABC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.06	--	--	--	1.12	--	1.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO-COMP	3.36	--	--	--	--	--	3.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CREE	9999	--	--	--	0.001	--	9999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	HCHO	0.0004	--	--	--	0	--	0.000	0.011	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0095	--	--	--	0.0001	--	0.010	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0160	--	--	--	--	--	0.018	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX-COMP	0.0487	--	--	--	--	--	0.049	000.100	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0065	--	--	--	0.0022	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0010	--	--	--	0.0006	--	0.002	0.003	Pass
CA	150,000 miles	California LEV-III SULEV20	CO	0.06	--	--	--	1.12	--	1.2	4.2	Pass
CA	150,000 miles	California LEV-III SULEV20	CO-COMP	3.36	--	--	--	--	--	3.4	4.2	Pass
CA	150,000 miles	California LEV-III SULEV20	CREE	9999	--	--	--	0.001	--	9999	--	--
CA	150,000 miles	California LEV-III SULEV20	HCHO	0.0004	--	--	--	0	--	0.000	0.011	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0095	--	--	--	0.0001	--	0.010	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0160	--	--	--	--	--	0.018	0.020	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX-COMP	0.0487	--	--	--	--	--	0.049	0.100	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0065	--	--	--	0.0022	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	PM	0.0010	--	--	--	0.0006	--	0.002	0.003	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	GEPA10001215	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)
<b>Test Date</b>	09/01/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	LOD		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	13.4	--
Bag 1 Fuel Economy	13.4	13.4
Bag 2 Carbon Dioxide	15	--
Bag 2 Fuel Economy	15	15
Bag 3 Carbon Dioxide	17.8	--
Bag 3 Fuel Economy	17.8	17.8
CH4 - Methane	0.0262	--
Carbon Monoxide	1.89	--
Drive Trace Absolute Speed Change Rating	0.7	--
Drive Trace Energy Economy Rating	1.5	--
Drive Trace Inertia Work Ratio Rating	1.05	--
Formaldehyde	0.00744	--
Manufacturer Fuel Economy	15.3	15.3
Nitrogen Oxide	0.0303	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0.186	--
Non-methane organic gas (California)	0.19344	--
Total Hydrocarbon	0.211	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	573	--

**Manufacturer Test Comments** --

## Certification Summary Information Report

Test Group		GEPAV02.0VD0			Evaporative/Refueling Family					GEPAR0250ABC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 20	CO	1.89	--	--	--	0.44	--	2.3	010.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.19	--	--	--	0.0144	--	0.2	0.2	Pass
CA	50,000 miles	California LEV-III SULEV20	CO	1.89	--	--	--	0.44	--	2.3	010.0	Pass



## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VD0	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001210</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/01/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	LOD		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
CH4 - Methane	0.0015472	--
Carbon Monoxide	0.0111393	--
Drive Trace Absolute Speed Change Rating	0.7	--
Drive Trace Energy Economy Rating	1.5	--
Drive Trace Inertia Work Ratio Rating	1.05	--
Formaldehyde	0.0000852	--
Manufacturer Fuel Economy	28.9	28.9
Nitrogen Oxide	0.0065166	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0.002131	--
Non-methane organic gas (California)	0.0022163	--
Total Hydrocarbon	0.0035776	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	308	9999
Optional Carbon-Related Exhaust Emissions	0	9999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	307.55	--

**Manufacturer Test Comments** Tier 3 Testing

## Certification Summary Information Report

Test Group		GEPAV02.0VD0			Evaporative/Refueling Family					GEPAR0250ABC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 20	CREE	9999	--	--	--	0.001	--	9999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0022	--	--	--	0.0001	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0087	--	--	--	--	--	0.011	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0065	--	--	--	0.0022	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	CREE	9999	--	--	--	0.001	--	9999	--	--
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0022	--	--	--	0.0001	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0087	--	--	--	--	--	0.011	0.020	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0065	--	--	--	0.0022	--	0.009	999.999	Pass

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

<b>Test #</b>	<b>GEPA10001218</b>	<b>Test Procedure</b>	<b>23 - Federal Fuel 2-day Evap (Butane load)</b>
<b>Exhaust Test # for this Evap Test</b>	GEPA10001209	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/01/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab A		
<b>E10 Evaporative Test Measurement Method</b>	Actual FID w/o Speciation (EPA Only)		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Total Hydrocarbon equivalent - Evap only	0.24592	--

**Manufacturer Test Comments** Tier 3 Testing

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	0.246	0	0.25	0.30	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.246	0	0.25	0.30	Pass

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VD0	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001211</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/01/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	LOD		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	10.7	--
Bag 1 Fuel Economy	10.7	10.7
Bag 2 Carbon Dioxide	22.8	--
Bag 2 Fuel Economy	22.8	22.8
CH4 - Methane	0.0110907	--
Carbon Monoxide	5.10159	--
Drive Trace Absolute Speed Change Rating	0.7	--
Drive Trace Energy Economy Rating	1.5	--
Drive Trace Inertia Work Ratio Rating	1.05	--
Formaldehyde	0.0013807	--
Manufacturer Fuel Economy	18.1	18.1
Nitrogen Oxide	0.0389462	--
Nitrous Oxide	0.01	--
Non-methane Hydrocarbon	0.0345183	--
Non-methane organic gas (California)	0.035899	--
Particulate Matter	0.004	--
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.07	--
Total Hydrocarbon	0.0449162	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	481.536	--

**Manufacturer Test Comments** Tier 3 Testing

## Certification Summary Information Report

Test Group		GEPAV02.0VDO				Evaporative/Refueling Family				GEPAR0250ABC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0040	--	--	--	0.0006	--	0.005	0.006	Pass
CA	150,000 miles	Federal Tier 3 Bin 20	PM	0.0040	--	--	--	0.0006	--	0.005	0.006	Pass

<b>Test #</b>	<b>GEPA10001214</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/01/2014	<b>Fuel</b>	N/A
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	LOD		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
CH4 - Methane	0.0129538	--
Carbon Monoxide	2.15479	--
Drive Trace Absolute Speed Change Rating	0.7	--
Drive Trace Energy Economy Rating	1.5	--
Drive Trace Inertia Work Ratio Rating	1.05	--
Formaldehyde	0.0003065	--
Manufacturer Fuel Economy	18.2	18.2
Nitrogen Oxide	0.0456321	--
Non-methane Hydrocarbon	0.0076613	--
Non-methane organic gas (California)	0.0079678	--
Particulate Matter	0.001	--
Total Hydrocarbon	0.0195751	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	484.808	--

**Manufacturer Test Comments** --

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001237</b>	<b>Test Procedure</b>	<b>64 - Evap CARB Fuel Only (Rig) Test</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	23 - CARB Phase II Gasoline
<b>Test Date</b>	08/05/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab B		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Total Hydrocarbon equivalent - Evap only	0.0089323	--

**Manufacturer Test Comments** Tier 3 testing. .

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	0.0089	0.005	0.014	0.054	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0089	0.005	0.014	0.054	Pass

<b>Test #</b>	<b>GEPA10001238</b>	<b>Test Procedure</b>	<b>65 - Evap Canister Bleed Test</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	23 - CARB Phase II Gasoline
<b>Test Date</b>	08/05/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab A		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Effective Leak Diameter (inches)	0	--
Total Hydrocarbon equivalent - Evap only	0.010967	--

**Manufacturer Test Comments** Tier 3 testing. .

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	0.0110	0	0.011	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0110	0	0.011	0.020	Pass

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VD0	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001233</b>	<b>Test Procedure</b>	<b>68 - Leak Test - Port Near Fuel Pipe</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/05/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab B		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Effective Leak Diameter (inches)	0.01	--

**Manufacturer Test Comments** TIER 3 testing

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	LEAK-DIA	0.010	0	0.01	0.02	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	LEAK-DIA	0.010	0	0.01	0.02	Pass

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001234</b>	<b>Test Procedure</b>	<b>66 - Leak Test - Evap Fuel System OBD</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/05/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab A		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Effective Leak Diameter (inches)	0.0158372	--

**Manufacturer Test Comments**

Tier 3 testing. OBD passed leak check last 600 miles.

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	LEAK-DIA	0.016	0	0.02	0.02	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	LEAK-DIA	0.016	0	0.02	0.02	Pass

**Certification Summary Information Report**

<b>Test Group</b>	GEPAV02.0VDO	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001235</b>	<b>Test Procedure</b>	<b>67 - Leak Test - Port Near Canister</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/05/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab A		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Effective Leak Diameter (inches)	0.025992	--

**Manufacturer Test Comments**

Tier 3 testing. OBD FAILED leak check last 600 miles.

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	LEAK-DIA	0.026	0	0.03	0.02	Fail
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	LEAK-DIA	0.026	0	0.03	0.02	Fail



### Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VD0	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>GEPA10001236</b>	<b>Test Procedure</b>	<b>69 - Leak Test - Evap Gas Cap</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	08/05/2014	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab B		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Gas Cap Leakage (cc/min)	240.309	--

**Manufacturer Test Comments**                      Tier 3 testing. OBD PASSEd gas cap.

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	LEAK-GAS CAP	240.3	0	240	240	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	LEAK-GAS CAP	240.3	0	240	240	Pass

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO		<b>Evaporative/Refueling Family</b>	GEPAR0250ABC							
<b>Emission Data Vehicle Information</b>											
<b>Vehicle ID / Configuration</b>	CDH3-2.0-J-144 / 0										
<b>Vehicle Model</b>											
<b>Represented Test Vehicle Make</b>	MAKE	<b>Represented Test Vehicle Model</b>	MODEL								
<b>Leak Family Details</b>											
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--								
<b>Drive Sources and Fuel System Details</b>											
<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									
<b>Hybrid Indicator</b>	N	<b>Multiple Fuel Combustion</b>	--								
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--								
<b>Fuel Cell Indicator</b>	--	<b>Rechargeable Energy Storage System, if 'Other'</b>	--								
<b>Rechargeable Energy Storage System</b>	--	<b># of Transmission Gears</b>	6								
<b>Off-board charge Capable Indicator</b>	--	<b>Axle Ratio</b>	3.9								
<b>Transmission Type</b>	Automatic	<b>Rated Horsepower</b>	160								
<b>Engine Code</b>	CDH1G40505	<b>Air Aspiration Method</b>	Naturally Aspirated								
<b>Displacement (liters)</b>	2	<b>SIL Usage</b>	Not equipped								
<b>Equivalent Test Weight (pounds)</b>	3250										
<b>Drive Mode While Testing</b>	2-Wheel Drive, Front										
<b>Aged Emission Components</b>	4,000 (mi)										
<b>Dynamometer Coefficients:</b>											
<b>Target Coefficients</b>			<b>Set Coefficients</b>			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>		<b>C (lbf/mph**2)</b>				
<b>City/Highway/Evap</b>	31.88	0.2815	0.01943	8.12	0.2779	0.01839	12.6				
<b>Cold CO</b>	31.88	0.2815	0.01943	8.12	0.2779	0.01839	N/A				
<b>US06</b>	31.88	0.2815	0.01943	8.12	0.2779	0.01839	N/A				
<b>Manufacturer Test Vehicle Comments</b>	2012MY 4K EVAP/Exhaust										

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VD0	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>CEPA10000724</b>	<b>Test Procedure</b>	<b>34 - Federal Fuel 3-day Evap (Butane load)</b>
<b>Exhaust Test # for this Evap Test</b>	CEPA10000723	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	10/08/2010	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab A		
<b>E10 Evaporative Test Measurement Method</b>	Actual FID w/o Speciation (EPA Only)		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Total Hydrocarbon equivalent - Evap only	0.1249586	--

**Manufacturer Test Comments**

3-day enhanced evaporative 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	0.125	0	0.12	0.30	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.125	0	0.12	0.30	Pass

**Certification Summary Information Report**

<b>Test Group</b>	GEPAV02.0VDO	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>CEPA10000722</b>	<b>Test Procedure</b>	<b>24 - Federal Fuel Refuel (ORVR) (Butane load)</b>
<b>Exhaust Test # for this Evap Test</b>	CEPA10000721	<b>Test Fuel Type</b>	58 - Tier 3 E10 Regular Gasoline (10 RVP-FFV ORVR Only)
<b>Test Date</b>	11/12/2010	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab A		
<b>E10 Evaporative Test Measurement Method</b>	--		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Total Hydrocarbon equivalent - Evap only	0.02359	--

**Manufacturer Test Comments** ORVR 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	0.024	0	0.02	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.024	0	0.02	0.20	Pass

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VD0	<b>Evaporative/Refueling Family</b>	GEPAR0250ABC
<b>Test #</b>	<b>CEPA10000725</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	CEPA10000723	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	10/08/2010	<b>Fuel</b>	Gasoline
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Lab A		
<b>E10 Evaporative Test Measurement Method</b>	Actual FID w/o Speciation (EPA Only)		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Total Hydrocarbon equivalent - Evap only	0.008744	--

**Manufacturer Test Comments** 3-day enhanced evaporative 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	0.009	0.002	0.01	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.009	0.002	0.01	0.05	Pass

## Certification Summary Information Report

Test Group		GEPAV02.0VD0			Evaporative/Refueling Family			GEPAR0250ABC		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			Federal Fuel 3-day Exhaust (Butane 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	--	--	--	--	--	--	1.12	4.2	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	CREE	--	--	--	--	--	--	0.001	999.999	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.011	
150,000 miles	NMOG	--	--	--	--	--	--	0.0001	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	000.100	
150,000 miles	NOX	--	--	--	--	--	--	0.0022	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.003	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			HWFE		
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	CREE	--	--	--	--	--	--	0.001	999.99	
150,000 miles	NMOG	--	--	--	--	--	--	0.0001	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020	
150,000 miles	NOX	--	--	--	--	--	--	0.0022	999.999	

## Certification Summary Information Report

Test Group		GEPAV02.0VDO			Evaporative/Refueling Family			GEPAR0250ABC		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20		
Fuel		Gasoline			Test Procedure			Federal Fuel 3-day Exhaust (Butane 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	--	--	--	--	--	--	1.12	4.2	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	CREE	--	--	--	--	--	--	0.001	999.999	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.011	
150,000 miles	NMOG	--	--	--	--	--	--	0.0001	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.100	
150,000 miles	NOX	--	--	--	--	--	--	0.0022	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.003	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.006	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20		
Fuel		Gasoline			Test Procedure			Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
50,000 miles	CO	--	--	--	--	--	--	0.44	010.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0144	0.2	

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO			<b>Evaporative/Refueling Family</b>			GEPAR0250ABC		
<b>Cert Region</b>	California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV20		
<b>Fuel</b>	Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
50,000 miles	CO	--	--	--	--	--	--	0.44	010.0

<b>Cert Region</b>	California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV20		
<b>Fuel</b>	Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CREE	--	--	--	--	--	--	0.001	999.99
150,000 miles	NMOG	--	--	--	--	--	--	0.0001	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0022	999.999

<b>Cert Region</b>	California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>	LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 20		
<b>Fuel</b>	Gasoline			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.006

**Evaporative/Refueling Standards**

<b>Evaporative/Refueling Family</b>	GEPAR0250ABC			<b>Cert Region</b>			California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Cert			<b>Standard Level</b>			California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	Federal Fuel 2-day Evap (Butane load)								
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>			<b>Std</b>	<b>Add DF</b>		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--			0.30	0		



## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO		<b>Evaporative/Refueling Family</b>	GEPAR0250ABC	
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Federal Fuel 3-day Evap (Butane load)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.30	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Leak Test - Evap Gas Cap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-GAS CAP	--	240	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal Federal Tier 3 Evap	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Leak Test - Port Near Fuel Pipe				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Federal Fuel Refuel (ORVR) (Butane load)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal Federal Tier 3 Evap	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Evap CARB Fuel Only (Rig) Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.054	0.005

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO		<b>Evaporative/Refueling Family</b>	GEPAR0250ABC	
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal Fuel 3-day Evap (Butane load)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.30	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)	
<b>Test Procedure</b>	Leak Test - Port Near Canister				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal Fuel 2-day Evap (Butane load)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.30	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Leak Test - Evap Gas Cap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-GAS CAP	--	240	0

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO		<b>Evaporative/Refueling Family</b>	GEPAR0250ABC	
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Evap CARB Fuel Only (Rig) Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.054	0.005
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Leak Test - Evap Fuel System OBD				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal Fuel Refuel (ORVR) (Butane load)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Leak Test - Evap Fuel System OBD				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0

## Certification Summary Information Report

<b>Test Group</b>	GEPAV02.0VDO		<b>Evaporative/Refueling Family</b>	GEPAR0250ABC	
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Leak Test - Port Near Fuel Pipe				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.002
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	Federal	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>	Federal Tier 3 Evap	
<b>Test Procedure</b>	Leak Test - Port Near Canister				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0
<b>Evaporative/Refueling Family</b>	GEPAR0250ABC		<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
<b>Cert/In-Use Code</b>	Cert		<b>Standard Level</b>		
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.002

## Certification Summary Information Report

Test Group	GEPAV02.0VD0	Evaporative/Refueling Family	GEPAR0250ABC
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	METHANOL	CH3OH - Methanol
CO	Carbon Monoxide	N2O	Nitrous Oxide
CO2	Carbon dioxide	SPITBACK	Spitback Hydrocarbon in grams
CREE	Carbon-Related Exhaust Emissions	AMP-HRS	Integrated Amp-hours
OPT-CREE	Optional Carbon-Related Exhaust Emissions	START-SOC	System Start State of Charge Watt-hours
NOX	Nitrogen Oxide	END-SOC	System End State of Charge Watt-hours
PM	Particulate Matter	ACT-DISTANCE	Actual Distance Driven (miles)
PM-COMP	SFTP Composite Particulate Matter	AS-VOLT	Average System Voltage
HC-NM	Non-methane Hydrocarbon	CO2 BAG 1	Bag 1 Carbon Dioxide
OMHCE	Organic material Hydrocarbon Equivalent	CO2 BAG 2	Bag 2 Carbon Dioxide
OMNMHCE	Organic material non-methane HC equivalent	CO2 BAG 3	Bag 3 Carbon Dioxide
NMOG	Non-methane organic gas (California)	CO2 BAG 4	Bag 4 Carbon Dioxide
HCHO	Formaldehyde	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
H3C2HO	Acetaldehyde	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	DT-ASCR	Drive Trace Absolute Speed Change Rating
CO-COMP	SFTP Composite Carbon Monoxide	DT-EER	Drive Trace Energy Economy Rating
ETHANOL	C2H5OH - Ethanol	COMB-CREE	Combined Carbon-Related Exhaust Emissions
FE BAG 1	Bag 1 Fuel Economy	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
FE BAG 2	Bag 2 Fuel Economy	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
FE BAG 3	Bag 3 Fuel Economy	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
FE BAG 4	Bag 4 Fuel Economy	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
MFR FE	Manufacturer Fuel Economy	LEAK-DIA	Effective Leak Diameter (inches)
HC	Hydrocarbon for Running Loss and ORVR	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
METHANE	CH4 - Methane		
<b>Certification Region</b>			
CA	California + CAA Section 177 states	FA	Federal
<b>Exhaust Emission Standard Level</b>			
B1	Federal Tier 2 Bin 1	L3ULEV340	California LEV-III ULEV340
B2	Federal Tier 2 Bin 2	L3ULEV250	California LEV-III ULEV250
B3	Federal Tier 2 Bin 3	L3ULEV200	California LEV-III ULEV200
B4	Federal Tier 2 Bin 4	L3SULEV170	California LEV-III SULEV170
B5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150

## Certification Summary Information Report

Test Group	GEPAV02.0VDO	Evaporative/Refueling Family	GEPAR0250ABC
B6	Federal Tier 2 Bin 6	L3LEV630	California LEV-III LEV630
B7	Federal Tier 2 Bin 7	L3ULEV570	California LEV-III ULEV570
B8	Federal Tier 2 Bin 8	L3ULEV400	California LEV-III ULEV400
B9	Federal Tier 2 Bin 9	L3ULEV270	California LEV-III ULEV270
B10	Federal Tier 2 Bin 10	L3SULEV230	California LEV-III SULEV230
B11	Federal Tier 2 Bin 11	L3SULEV200	California LEV-III SULEV200
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	T3B160	Federal Tier 3 Bin 160
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	T3B125	Federal Tier 3 Bin 125
L2	California LEV-II LEV	T3B110	Federal Tier 3 Transitional Bin 110
L2OP	California LEV-II LEV Optional	T3B85	Federal Tier 3 Transitional Bin 85
U2	California LEV-II ULEV	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
S2	California LEV-II SULEV	T3B70	Federal Tier 3 Bin 70
ZEV	California ZEV	T3B50	Federal Tier 3 Bin 50
OT	Other	T3B30	Federal Tier 3 Bin 30
T1	Federal Tier 1	T3B20	Federal Tier 3 Bin 20
PZEV	California PZEV	T3B0	Federal Tier 3 Bin 0
L2LEV160	California LEV-II LEV160	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
L2ULEV125	California LEV-II ULEV125	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
L2SULEV30	California LEV-II SULEV30	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2LEV395	California LEV-II LEV395	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
L2ULEV340	California LEV-II ULEV340	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
L2LEV630	California LEV-II LEV630	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
L2ULEV570	California LEV-II ULEV570	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
L3LEV160	California LEV-III LEV160	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
L3ULEV125	California LEV-III ULEV125	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
L3ULEV70	California LEV-III ULEV70	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L3ULEV50	California LEV-III ULEV50	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L3SULEV30	California LEV-III SULEV30	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L3SULEV20	California LEV-III SULEV20	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L3LEV395	California LEV-III LEV395		
<b>Transmission Type Code</b>			
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)
<b>Drive System Code</b>			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		

## Certification Summary Information Report

Test Group	GEPAV02.0VD0	Evaporative/Refueling Family	GEPAR0250ABC
<b>Additional Terms and Acronyms</b>			
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