

# CARB LDV E-Cert Form

Version 2.0.5.0

Please enter all data in UPPERCASE.

## Contact Information

CARB MFR Code:	MFR
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## Application

### General Information

CARB MFR Code:	MFR
Model Year:	2014
Test Group Name:	EMFRT06.2ABC
Application Type:	<u>NEW</u>

### CSI 1

Durability Group Name:	EMFRGHHABC11
Running Change Reference Number/Name:	
CARB TG Classification:	<u>50 STATES</u>
CARB TG Interim / In-Use FTP Standard:	<u>NOT APPLICABLE</u>
CARB TG Interim / In-Use SFTP Standard:	<u>NOT APPLICABLE</u>
Federally-Certified Vehicle (Cleaner Federal Vehicle):	<u>YES, THIS TEST GROUP COMPLIES WITH CLEANER FEDERAL STANDARDS (BIN)</u>
CARB FTP Standard:	<u>LEV2 ULEV</u>

EPA FTP Standard: TIER2 BIN8  
 SFTP Standard: EPA TIER2 SFTP STANDARD  
 Please select a vehicle class of a TG, or a vehicle class to which the most stringent standard is applied, if multiple vehicle classes are in the TG: MEDIUM-DUTY VEHICLE (GVWR = 8501 ~ 10000, NON-MDPV)  
 Does this TG meet optional LEV NOx exhaust emission standard certification for "Work Trucks"?: NO  
 TG Fuel Category: DUAL-FUEL VEHICLE  
 Light-Duty Specially Constructed Vehicles (SPCNS): NO, THIS TEST GROUP IS NOT SPCNS

Light-Duty Specially Constructed Vehicles Only	
Weight of Worst Case Vehicle (lbs)	N/V Ratio of Worst Case Vehicle

OBD Approval Reference Number:

CSI 1 Manufacturer Notes:

## CSI 2A

Exhaust Emissions UL Years:  Miles:

Is any model in the TG granted DOR? NO

Does NMOG Cert include DOR NMOG Credit? Select...

Is any model in the TG granted Non-PZEV Zero Evap? NO

Does NMOG Cert include Non-PZEV Zero-Evap NMOG Credit? Select...

Direct measurement of NMOG? NO

NMOG+NOx fleet average credit for extended warranty? NO

FTP NMOG/NMHC ratio:  HCHO/NMHC ratio:

RAF for NMOG:  RAF for Methane:

**FTP Exhaust Emissions:**

FTP Exhaust Emissions Test Fuel: CNG - EPA CERT FUEL (40CFR86.113-94(e)(1))

If Other, Specify:

Exhaust FTP xxHC Type: NON-METHANE ORGANIC GAS (NMOG)

If Other, Specify:

Modified Test Procedure for FTP Test? (If yes, describe modification & approval ref # in FTP Manufacturer Note) NO

Does this TG have a FFH? NO

Is the FFH operable above 40°F? NOT APPLICABLE

Does FTP CERT include FFH exhaust? NOT APPLICABLE

Units: (g/mi)									
Air Pollutant	xxHC	NOx	NMOG + NOx	CO	HCHO (mg/mi)	PM	Highway NOx	Highway NMOG + NOx	Cold-CO
4K CERT (50°F)									
4K STD (50°F)									
50K CERT	0.0700	0.021		1.34	7.0				
50K STD	0.100	0.14		3.4	15	0.02			
UL CERT	0.0880	0.044		1.70	7.2				
UL STD	0.125	0.20		4.2	18	0.02			

**FTP Exhaust Emissions:**

FTP Exhaust Emissions Test Fuel: GASOLINE - TIER 2 UNLEADED (40CFR86.113-04(a)(1))

If Other, Specify:

Exhaust FTP xxHC Type:

NON-METHANE ORGANIC GAS (NMOG)

If Other, Specify:

Modified Test Procedure for FTP Test? (If yes, describe modification & approval ref # in FTP Manufacturer Note)

NO

Does this TG have a FFH?

NO

Is the FFH operable above 40°F?

NOT APPLICABLE

Does FTP CERT include FFH exhaust?

NOT APPLICABLE

Units: (g/mi)

Air Pollutant	xxHC	NOx	NMOG + NOx	CO	HCHO (mg/mi)	PM	Highway NOx	Highway NMOG + NOx	Cold-CO
4K CERT (50°F)									
4K STD (50°F)									
50K CERT	0.0800	0.040		1.41					
50K STD	0.100	0.14		3.4	15	0.02			
UL CERT	0.0981	0.064		1.77					
UL STD	0.125	0.20		4.2	18	0.02			

**FTP Exhaust Emissions:**

FTP Exhaust Emissions Test Fuel: GASOLINE - COLD CO HIGH OCTANE (40CFR 86.213-04)

If Other, Specify:

Exhaust FTP xxHC Type:

NON-METHANE ORGANIC GAS (NMOG)

If Other, Specify:

Modified Test Procedure for FTP Test? (If yes, describe modification & approval ref # in FTP Manufacturer Note)

NO

Does this TG have a FFH?

NO

Is the FFH operable above 40°F?

NOT APPLICABLE

Does FTP CERT include FFH

exhaust?

NOT APPLICABLE

Units: (g/mi)									
Air Pollutant	xxHC	NOx	NMOG + NOx	CO	HCHO (mg/mi)	PM	Highway NOx	Highway NMOG + NOx	Cold-CO
4K CERT (50°F)									
4K STD (50°F)									
50K CERT									5.5
50K STD									12.5
UL CERT									
UL STD									

CSI 2A Manufacturer Note for FTP Exhaust Emissions:

NMOG/NMHC RATIO FOR GASOLINE IS 1.04

## CSI 2B

### Evaporative/Refueling Emissions:

Evap Data Set Number: 1 (Select a sequential number, starting with 1 for each Evaporative Data Set.)

Evap Refuel Family: EMFRR0200111

Certification option for evaporative emissions: LEV 2

Evap Emission STD Vehicle Class: MEDIUM-DUTY VEHICLE (GVWR = 8501 ~ 10000)

Cert Test Fuel for Evap: CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)

If Other, Specify:

Cert Test Fuel for ORVR: Select...

If Other, Specify:

Modified Test Procedure for Evap Test? NO  
 (If yes, describe modification & approval ref # in Manufacturer Note)

Evap Pollutant Type: TOTAL HYDROCARBONS (THC)

	Evaporative Emissions			Zero-Fuel Evaporative Emissions (g/test)		Canister Bleed (g/test)	ORVR (g/gal)
	3-Days + Hot Soak (g/test)	2-Days + Hot Soak (g/test)	Running Loss (g/mi)	3-Days + Hot Soak	2-Days + Hot Soak		
CERT:	0.300	0.720	0.000				
FEL:							

STD:	1.00	1.25	0.05				
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**Evaporative Emissions:**

Leak Family Identifier	Cert (inches)	Standard (inches)
Evap UL Years: <input type="text" value="15"/>	Evap UL Miles: <input type="text" value="150000"/>	
ORVR UL Years: <input type="text"/>	ORVR UL Miles: <input type="text"/>	
NMOG credit (g/mi) used for zero evap cert (rig test only): <input type="text"/>		
Evap emissions (g/test) offset by NMOG credit for zero evap test (rig test only): <input type="text"/>		
CSI 2B Manufacturer Note: <input type="text"/>		

**Evaporative/Refueling Emissions:**

Evap Data Set Number:  (Select a sequential number, starting with 1 for each Evaporative Data Set.)

Evap Refuel Family:

Certification option for evaporative emissions:

Evap Emission STD Vehicle Class:

Cert Test Fuel for Evap:

If Other, Specify:

Cert Test Fuel for ORVR:

If Other, Specify:

Modified Test Procedure for Evap Test?   
 (If yes, describe modification & approval ref # in Manufacturer Note)

Evap Pollutant Type:

	<b>Evaporative Emissions</b>	<b>Zero-Fuel Evaporative Emissions</b>	<b>Canister Bleed</b>	<b>ORVR</b>
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				(g/test)		(g/test)	(g/gal)
	3-Days + Hot Soak (g/test)	2-Days + Hot Soak (g/test)	Running Loss (g/mi)	3-Days + Hot Soak	2-Days + Hot Soak		
CERT:	0.300	0.800	0.000				
FEL:							
STD:	1.00	1.25	0.05				

**Evaporative Emissions:**

Leak Family Identifier	Cert (inches)	Standard (inches)
Evap UL Years: 15	Evap UL Miles: 150000	
ORVR UL Years:	ORVR UL Miles:	
NMOG credit (g/mi) used for zero evap cert (rig test only):		
Evap emissions (g/test) offset by NMOG credit for zero evap test (rig test only):		
CSI 2B Manufacturer Note:		

**CSI 3**

**Test Group Description:**

Engine Set Number: 1 (Select a sequential number, starting with 1 for each Set Number.)

Engine Location (relation to the front of the vehicle): FRONT ENGINE

TG Combustion Cycle: 4-STROKE SPARK IGNITION If Other:

Cylinder/Block Arrangement: V-SHAPED ENGINE If Other:

Number of Cylinders/Rotors: 8

Engine Cooling Medium: LIQUID If Other:

Engine Displacement (L):

6.2

<b>Intake Valves per Cylinder:</b>	<b>Exhaust Valves per Cylinder:</b>
2	2

Engine Valvetrain: SINGLE OVERHEAD CAM If Other:

Intake Variable Valve Timing (VVT): FIXED 1 (ONLY ONE VALVE TIMING)

Exhaust Variable Valve Timing (VVT): FIXED 1 (ONLY ONE VALVE TIMING)

Intake Valve Lift: FIXED 1 (ONLY ONE VALVE LIFT) Exhaust Valve Lift: FIXED 1 (ONLY ONE VALVE LIFT)

Cylinder Deactivation: NO

<b>Engine Special Features 1</b>	<b>Engine Special Features 2</b>
<u>NOT APPLICABLE</u>	<u>NOT APPLICABLE</u>

TG Operating Fuel	TG Fuel Metering	TG Fuel Metering (If Other)	Rated Power (hp)	@RPM	Peak Torque (foot-pounds)	@RPM
<u>COMPRESSED NATURAL GAS</u>	<u>SEQUENTIAL MULTIPOINT FUEL INJECTION</u>		280	5,000	300	4,000
<u>GASOLINE</u>	<u>SEQUENTIAL MULTIPOINT FUEL INJECTION</u>		350	5,400	380	4,100

CSI 3 Manufacturer Note:

**CSI 4 (All fields in red are considered CBI)**

**Exhaust Emissions Control System (ECS) Information:**

ECS Set Number: 1 (Select a sequential number, starting with 1 for each Set Number.)

Electronic Controls: ECM If Other:

ECS Configuration: TWC HO2S(2) SFI

Exhaust Gas Recirculation (EGR): NO  
Cooled EGR: NOT APPLICABLE  
EGR Type: NOT APPLICABLE If Other:  
Air Aspiration Method in the TG: NATURALLY ASPIRATED If Other:  
Number of Air Aspiration Devices:  
Air Aspiration Configuration: NONE  
Charge Air Cooler Type: NOT APPLICABLE  
Number of Charge Air Coolers:   
Charge Air Cooler Configuration: NONE  
Air Injection: NOT APPLICABLE If Other:  
Direct Ozone Reduction (DOR) Device: NO  
Total Number of Physical Container(s) of ATD(s):   
This ECS Set is used for Production Vehicles: YES  
This ECS Set is used for EDV: YES  
This ECS Set is used for DDV: NOT APPLICABLE

**After-Treatment Device (ATD) Information:**

ATD Container Number: 1 (Select a sequential number, starting with 1 for each ATD container.)

After-Treatment Type: THREE-WAY CATALYST

200k Miles Extended Warranty for Particulate Filter: Select...

**Total Number of Physical Substrates (bricks) in this container:**

**ATD Note:**

CATALYST COMPANY: ABC

### Brick (Substrate) Information:

<b>Size of Substrate (liters):</b>	<input type="text" value="1.2"/>	
<b>Substrate Precious Metals:</b>	<input type="text" value="PLATINUM/PALLADIUM"/>	<b>If</b>
<b>Substrate Material:</b>	<input type="text" value="CERAMIC"/>	<b>Other:</b>
<b>Substrate Construction:</b>	<input type="text" value="MONOLITH"/>	<b>If</b>
<b>Cell Geometry:</b>	<input type="text" value="HONEYCOMB"/>	<b>Other:</b>
<b>Substrate Cell Density (# of cells / in<sup>2</sup>):</b>	<input type="text" value="400"/>	
<b>Substrate Specific Active Surface Area (m<sup>2</sup>/liter):</b>	<input type="text" value="1,000"/>	
<b>Precious Metal Loading Rate (g/liter):</b>	<input type="text" value="1.0"/>	
<b>Precious Metal Composition:</b>	<input type="text" value="1/0.5"/>	
<b>Uniform Loading of Precious Metals?</b>	<input type="text" value="YES"/>	

### Exhaust Feedback Sensor Information:

Sensor Type:

### Other Sensor Information:

Sensor Type:

If Other, Specify:

Number of Sensors:

### Exhaust Emission Data Vehicle (EDV) Information:

EDV Set Number:	<input type="text" value="1"/>	(Select a sequential number, starting with 1 for each Set Number.)
Test Group Name:	<input type="text" value="EMFRT06.2ABC"/>	
EDV Division Name:	<input type="text" value="SUBMFR"/>	
EDV Model Name:	<input type="text" value="MODEL1"/>	
EDV Test Vehicle ID:	<input type="text" value="001"/>	
EDV Test Data Type:	<input type="text" value="NEW TEST DATA"/>	
Original TG of EDV:	<input type="text"/>	
Original Evap Family of EDV:	<input type="text"/>	
EDV Engine Code:	<input type="text" value="MFR001"/>	
EDV Displacement (liters):	<input type="text" value="6.2"/>	
EDV Cylinder (Block) Arrangement:	<input type="text" value="V-SHAPED ENGINE"/>	
If Other, Specify:	<input type="text"/>	
EDV Number of Cylinders:	<input type="text" value="8"/>	
EDV Number of Intake Valves per Cylinder:	<input type="text" value="2"/>	
EDV Number of Exhaust Valves per Cylinder:	<input type="text" value="2"/>	
EDV Drive System:	<input type="text" value="REAR WHEEL DRIVE"/>	
EDV N/V Ratio:	<input type="text" value="25"/>	
EDV Curb Weight (lb):	<input type="text" value="6200"/>	
EDV LVW (lb):	<input type="text"/>	
EDV ALVW (lb):	<input type="text"/>	
EDV ETW (lb):	<input type="text" value="7500"/>	
EDV GVWR (lb):	<input type="text" value="9500"/>	
EDV ECS Set Number:	<input type="text" value="1"/>	(enter the ECS set number from CSI 4)
EDV Rated Power (hp):	<input type="text" value="300"/>	@ RPM: <input type="text" value="5,000"/>

EDV Transmission Type: AUTOMATIC (WITH LOCKUP)

EDV Number of Transmission Gears:

Alternate Shift: Select...

Shift Indicator Lamp (SIL): Select...

Transmission Shift Mode for Exhaust Emission Test: NORMAL

If Other:

**ATD Grouping Statistic of EDV:**

Tire Size: Front:

Rear:

**Raw Test Results without DF:**

Test Type: FEDERAL TEST PROCEDURE (FTP)

Tested By: MANUFACTURER

Test ID:

Test Date:

Exh Test Fuel: CNG - EPA CERT FUEL (40CFR86.113-94(e)(1))

If Other, Specify:

Tested For: CERTIFICATION

Target Coefficient A (lb<sub>f</sub>):

Target Coefficient B (lb<sub>f</sub>/mph):

Target Coefficient C (lb<sub>f</sub>/mph<sup>2</sup>):

PHEV Operating Mode: NOT APPLICABLE

Is this the official certification test?: YES

THC (g/mi)	NMHC (g/mi)	NMOG (g/mi)	NOx (g/mi)	CO (g/mi)	HCHO (mg/mi)	PM (g/mi)	CO <sub>2</sub> (g/mi)	MPG	CH <sub>4</sub> (g/mi)	N <sub>2</sub> O (g/mi)
0.2238	0.0388	0.0582	0.004	1.06	6.8		500	10	0.185	

**Raw Test Results without DF:**

Test Type: COLD-CO (20F)

Tested By: MANUFACTURER

Test ID: MFR002  
 Test Date: 3/2/2013  
 Exh Test Fuel: GASOLINE - COLD CO HIGH OCTANE (40CFR 86.213-04)  
 If Other, Specify:  
 Tested For: CERTIFICATION  
 Target Coefficient A (lb<sub>f</sub>): 66.1  
 Target Coefficient B (lb<sub>f</sub>/mph): 0.475  
 Target Coefficient C (lb<sub>f</sub>/mph<sup>2</sup>): 0.04933  
 PHEV Operating Mode: NOT APPLICABLE  
 Is this the official certification test?: YES

THC (g/mi)	NMHC (g/mi)	NMOG (g/mi)	NOx (g/mi)	CO (g/mi)	HCHO (mg/mi)	PM (g/mi)	CO <sub>2</sub> (g/mi)	MPG	CH4 (g/mi)	N2O (g/mi)
				5.26						

**Raw Test Results without DF:**

Test Type: FEDERAL TEST PROCEDURE (FTP)  
 Tested By: MANUFACTURER  
 Test ID: MFR003  
 Test Date: 3/3/2013  
 Exh Test Fuel: GASOLINE - TIER 2 UNLEADED (40CFR86.113-04(a)(1))  
 If Other, Specify:  
 Tested For: CERTIFICATION  
 Target Coefficient A (lb<sub>f</sub>): 60.5  
 Target Coefficient B (lb<sub>f</sub>/mph): 0.4751  
 Target Coefficient C (lb<sub>f</sub>/mph<sup>2</sup>): 0.04154  
 PHEV Operating Mode: NOT APPLICABLE  
 Is this the official certification test?: YES

THC	NMHC	NMOG	NOx	CO	HCHO	PM	CO <sub>2</sub>	MPG	CH4	N2O
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(g/mi)	(g/mi)	(g/mi)	(g/mi)	(g/mi)	(mg/mi)	(g/mi)	(g/mi)		(g/mi)	(g/mi)
0.07276	0.0656	0.0682	0.024	1.16			650	14	0.00716	

CSI 5A Manufacturer Note:

### CSI 5B (All fields in red are considered CBI)

#### Durability Data Vehicle (DDV) and Emission Test Data:

DDV Set Number: 1 (Select a sequential number, starting with 1 for each Set Number.)

MFR Vehicle ID:

Durability Group Method: ASSIGNED DF

DDV ECS Set Number (From CSI 4):

**ATD Grouping Statistic:**  (ATD grouping statistic for this set of ATDs used for the DDV)

**Max ATD Grouping Statistic:**  (Maximum ATD grouping statistic for the durability group of the DDV)

**Min ATD Grouping Statistic:**  (Minimum ATD grouping statistic for the durability group of the DDV)

Durability Data Type: NOT APPLICABLE (ASSIGNED DF/AGED PARTS)

Original Durability Group Name:

Aging Method: Select...

Manufacturer ADP CARB Approval Ref #:

Durability Group Equivalency Factor:

ADP/Bench-aged Components:

<b>Durability Group Operating Fuel</b>	<b>Durability Group Fuel Metering</b>	<b>Durability Group Fuel Metering Other</b>
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**Deterioration Factors (DF):**

DF Emissions Test Type: NOT APPLICABLE (ASSIGNED DF)

DF Type: ADDITIVE DF (NON-NEGATIVE)

	(Units for Additive DF: mg/mi for HCHO, g/mi for all others)							
	NMHC	NMOG	NOx	Highway NOx	CO	HCHO	PM	Cold-CO
50K DF		0.0118	0.016		0.24	0.2		0.24
UL DF		0.0299	0.040		0.61	0.4		0.61

CSI 5B Manufacturer Notes:

**CSI 6A**

**Evaporative Family Description:**

Evap Family Set Number: 1 (Select a sequential number, starting with 1 for each Set Number.)

Evap Family: EMFRR0200111

ORVR Type: INTEGRATED

Fill Pipe Seal Mechanism: LIQUID TRAP

If Other:

Fill Pipe Compliant:

Tank Material: YES  
OTHER  
 If Other, Specify: STEEL FOR CNG TANK AND PLASTIC FOR GASOLINE TANK  
 Tank Temperature Profile Development: TRACK DRIVING  
 Approval # (Environmental Chamber only):  
 Zero Evap Compliance: NO  
 Is the vehicle a PZEV?: NO  
 HC Capture Method for Canister Bleed Test: Select...

<u>Evap Family Operating Fuel</u>	<u>Evap Family Operating Fuel Other</u>
<u>GASOLINE</u>	
<u>COMPRESSED NATURAL GAS</u>	

**Canister Information:**

Canister Type: MAIN CANISTER  
 Number of Canisters:   
 Canister Configuration: SINGLE  
 Total Butane Working Capacity (g):   
 Canister Total Bed Volume (cc):   
 Canister Storage Medium: ACTIVATED CARBON  
 Canister Notes:

**Fuel Tank Information:**

Fuel Tank Set Number: 1 (Select a sequential number, starting with 1 for each Set Number.)  
 Used for Production Vehicle: YES  
 Used for Evap EDV: YES  
 Used for Evap DDV: NOT APPLICABLE  
 Number Of Fuel Tanks:

	<input type="text" value="2"/>
40%-Fill Total Fuel Tank(s) Capacity (Gallons):	<input type="text" value="20"/>
100%-Fill Total Fuel Tank(s) Capacity (Gallons):	<input type="text" value="40"/>
Fuel Tank(s) Total Geometric Volume (Gallons):	<input type="text" value="41.2"/>
Fuel Tank Notes:	<input type="text"/>
CSI 6A Manufacturer Note:	<input type="text"/>

## CSI 6B

### Evaporative Refueling Emission Data Vehicle (EDV) Information:

Evap EDV Set Number:	<input type="text" value="1"/>	(Select a sequential number, starting with 1 for each Set Number.)
Evap Family Name:	<input type="text" value="EMFRR0200111"/>	
Evap Test Vehicle ID:	<input type="text" value="MFREVAP001"/>	
Evap Test Vehicle Model:	<input type="text" value="MODEL1"/>	
EDV Evap Type:	<input type="text" value="NEW TEST DATA"/>	
Original Evap Family of Evap EDV:	<input type="text"/>	
TG of Evap EDV:	<input type="text"/>	
Evap Test Vehicle Engine Code:	<input type="text" value="002"/>	
Displacement (liters):	<input type="text" value="6.2"/>	

Rated Power (hp):	300	@RPM: 5,000
Cylinder (Block) Arrangement:	<u>V-SHAPED ENGINE</u>	
If Other, Specify:	<input type="text"/>	
Number of Cylinders:	8	
Transmission:	<u>AUTOMATIC (WITH LOCKUP)</u>	
If Other, Specify:	<input type="text"/>	
Number of Transmission Gears:	6	
Target Coefficient A (lb <sub>f</sub> ):	60.1	
Target Coefficient B (lb <sub>f</sub> /mph):	0.4232	
Target Coefficient C (lb <sub>f</sub> /mph <sup>2</sup> ):	0.0487	
Tire Size	Front: <input type="text"/>	Rear: <input type="text" value="LT265/70R18"/>
Curb Weight (lb):	7000	
LVW (lb):	<input type="text"/>	
ALVW (lb):	<input type="text"/>	
ETW (lb):	6000	
GVWR (lb):	9,500	
Fuel Tank Set Number (From CSI6A):	1	
<b>Raw Evaporative Refueling Test Results:</b>		
Evap Test Type:	<u>3-DAYS + HOT SOAK (WHOLE VEHICLE, G/TEST)</u>	
Evap Test Date:	<input type="text" value="4/1/2013"/>	
Evap Test ID Number:	<input type="text" value="EVAP01"/>	
Tested By:	<u>MANUFACTURER</u>	
Evap Test Fuel:	<u>CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)</u>	
If Other, Specify:	<input type="text"/>	
Official Cert Test:	<u>YES</u>	
Tested For:	<u>CERTIFICATION</u>	
R/L Test:		
Test Procedure:		

Evap Pollutant Type:	<u>CARB</u> <u>TOTAL HYDROCARBONS (THC)</u>			
	<b>1<sup>st</sup> Day</b>	<b>2<sup>nd</sup> Day</b>	<b>3<sup>rd</sup> Day</b>	<b>Hot Soak</b>
Raw Evap Test for 3D+HS (g/test)	0.300	0.300	0.290	0.000
Raw Evap Test for 2D+HS (g/test)				
Raw Evap Test for Running Loss (g/mi):				
Raw Evap Test for ORVR (g/gallon):				
Raw Evap Test for Canister Bleed (g/test):				
<b>Raw Evaporative Refueling Test Results:</b>				
Evap Test Type:	<u>2-DAYS + HOT SOAK (WHOLE VEHICLE, G/TEST)</u>			
Evap Test Date:	4/2/2013			
Evap Test ID Number:	EVAP02			
Tested By:	<u>MANUFACTURER</u>			
Evap Test Fuel:	<u>CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)</u>			
If Other, Specify:				
Official Cert Test:	<u>YES</u>			
Tested For:	<u>CERTIFICATION</u>			
R/L Test:				
Test Procedure:	<u>CARB</u>			
Evap Pollutant Type:	<u>TOTAL HYDROCARBONS (THC)</u>			
	<b>1<sup>st</sup> Day</b>	<b>2<sup>nd</sup> Day</b>	<b>3<sup>rd</sup> Day</b>	<b>Hot Soak</b>
Raw Evap Test for 3D+HS (g/test)				
Raw Evap Test for 2D+HS (g/test)	0.720	0.720		0.000
Raw Evap Test for Running Loss (g/mi):				
Raw Evap Test for ORVR (g/gallon):				

Raw Evap Test for Canister Bleed (g/test):

**Raw Evaporative Refueling Test Results:**

Evap Test Type: RUNNING LOSS (G/MI)

Evap Test Date:

Evap Test ID Number:

Tested By: MANUFACTURER

Evap Test Fuel: CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)

If Other, Specify:

Official Cert Test: YES

Tested For: CERTIFICATION

R/L Test: POINT SOURCE

Test Procedure: CARB

Evap Pollutant Type: TOTAL HYDROCARBONS (THC)

	1 <sup>st</sup> Day	2 <sup>nd</sup> Day	3 <sup>rd</sup> Day	Hot Soak
Raw Evap Test for 3D+HS (g/test)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Raw Evap Test for 2D+HS (g/test)	<input type="text"/>	<input type="text"/>		<input type="text"/>

Raw Evap Test for Running Loss (g/mi):

Raw Evap Test for ORVR (g/gallon):

Raw Evap Test for Canister Bleed (g/test):

**Raw Evaporative Refueling Test Results:**

Evap Test Type: 3-DAYS + HOT SOAK (WHOLE VEHICLE, G/TEST)

Evap Test Date:

Evap Test ID Number:

Tested By: MANUFACTURER

Evap Test Fuel: GASOLINE - CA PHASE 2 (CA ExTP II A 100.3.1.1)

If Other, Specify:

Official Cert Test: YES  
 Tested For: CERTIFICATION  
 R/L Test:  
 Test Procedure: CARB  
 Evap Pollutant Type: TOTAL HYDROCARBONS (THC)

	1 <sup>st</sup> Day	2 <sup>nd</sup> Day	3 <sup>rd</sup> Day	Hot Soak
Raw Evap Test for 3D+HS (g/test)	0.300	0.300	0.300	0.000
Raw Evap Test for 2D+HS (g/test)				

Raw Evap Test for Running Loss (g/mi):   
 Raw Evap Test for ORVR (g/gallon):   
 Raw Evap Test for Canister Bleed (g/test):

**Raw Evaporative Refueling Test Results:**

Evap Test Type: 2-DAYS + HOT SOAK (WHOLE VEHICLE, G/TEST)  
 Evap Test Date: 4/6/2013  
 Evap Test ID Number: EVAP06  
 Tested By: MANUFACTURER  
 Evap Test Fuel: GASOLINE - CA PHASE 2 (CA ExTP II A 100.3.1.1)  
 If Other, Specify:

Official Cert Test: YES  
 Tested For: CERTIFICATION  
 R/L Test:  
 Test Procedure: CARB  
 Evap Pollutant Type: TOTAL HYDROCARBONS (THC)

	1 <sup>st</sup> Day	2 <sup>nd</sup> Day	3 <sup>rd</sup> Day	Hot Soak
Raw Evap Test for 3D+HS (g/test)				

Raw Evap Test for 2D+HS (g/test)	0.800	0.800		0.000
Raw Evap Test for Running Loss (g/mi):				
Raw Evap Test for ORVR (g/gallon):				
Raw Evap Test for Canister Bleed (g/test):				
<b>Raw Evaporative Refueling Test Results:</b>				
Evap Test Type:	<u>RUNNING LOSS (G/MI)</u>			
Evap Test Date:	4/5/2013			
Evap Test ID Number:	EVAP07			
Tested By:	<u>MANUFACTURER</u>			
Evap Test Fuel:	<u>GASOLINE - CA PHASE 2 (CA ExTP II A 100.3.1.1)</u>			
If Other, Specify:				
Official Cert Test:	<u>YES</u>			
Tested For:	<u>CERTIFICATION</u>			
R/L Test:	<u>POINT SOURCE</u>			
Test Procedure:	<u>CARB</u>			
Evap Pollutant Type:	<u>TOTAL HYDROCARBONS (THC)</u>			
	<b>1<sup>st</sup> Day</b>	<b>2<sup>nd</sup> Day</b>	<b>3<sup>rd</sup> Day</b>	<b>Hot Soak</b>
Raw Evap Test for 3D+HS (g/test)				
Raw Evap Test for 2D+HS (g/test)				
Raw Evap Test for Running Loss (g/mi):	0.0002			
Raw Evap Test for ORVR (g/gallon):				
Raw Evap Test for Canister Bleed (g/test):				
<b>Effective Leak Diameter Test Results:</b>				
CSI 6B Manufacturer Note:				

## CSI 6C

### Evaporative DDV and Durability Test Information:

Evaporative DDV Set Number:  (Select a sequential number, starting with 1 for each Set Number.)

Evaporative Family:

Evap DF Type:

DDV Evap Type:

Evap Family of Evap DDV:

TG of Evap DDV:

Evap DDV Test Vehicle Model:

Displacement (liters):

Fuel Tank Set Number (From CSI6A):

Evaporative DDV Note:

### Durability Information:

#### Deterioration Factors (DF):

	3-Days + Hot Soak (g/test)	2-Days + Hot Soak (g/test)	Running Loss (g/mi)	ORVR (g/gallon)
Overall Bench Evap DF:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Vehicle Evap DF:				
Overall Certification Evap DF:	0.000	0.000	0.000	
Bench DF Manufacturer Notes:				
Vehicle DF Manufacturer Notes:				

**CSI 7 (All fields in red are considered CBI)**

**Vehicle Model Summary:**

Model Number:	<u>1</u>	(Select a sequential number, starting with 1 for each Model Number.)
Vehicle Make:	<input type="text" value="SUBMFR"/>	
Carline Name:	<input type="text" value="MODEL1"/>	
Badge Name:	<input type="text" value="MODEL1"/>	
Body Style:	<input type="text" value="PICKUP"/>	
MFR Model Code:	<input type="text"/>	
Trim Level (i.e., CE, LE, etc):	<input type="text"/>	
Vehicle Class:	<u>MEDIUM-DUTY VEHICLE (GVWR = 8501 ~ 10000, NON-MDPV)</u>	
ECS Set Number (From CSI 4):	<input type="text" value="1"/>	
Engine Code:	<input type="text" value="014"/>	
Engine Set Number (From CSI 3):	<input type="text" value="1"/>	
Evap Family:	<input type="text" value="EMFRR0200111"/>	
Leak Family Identifier: (From CSI 2B)	<input type="text"/>	
Min Curb Weight (lbs):	<input type="text" value="6000"/>	
Max Curb Weight (lbs):	<input type="text" value="6500"/>	
Min ETW (lbs):	<input type="text" value="7000"/>	
Max ETW (lbs):	<input type="text" value="7500"/>	
Min GVWR (lbs):	<input type="text" value="9000"/>	
Max GVWR (lbs):	<input type="text" value="9900"/>	
Drive System:	<u>REAR WHEEL DRIVE</u>	

**Electric Drive Motor Set # (From CSI 10A):**

HEV Test Vehicle ID: (From CSI 10A)

Regenerative Braking: NOT APPLICABLE

Modified Test Procedure: NO

Shift Indicator Lamp (SIL): NO

Driver Selectable Modes: NO

If Yes, Describe the Modes:

Manufacturer Shift Schedule No. (City, Hwy, US06, SC03):

Label Type: 50 STATES

**CA Projected Sales:**

**Section 177 States Projected Sales:**

NMOG Credit Non PZEV Zero Evap:

NMOG Credit DOR Vehicle:

**PZEV Allowances:**

Baseline PZEV Allowance:

Zero Emissions VMT Allowance:

**Advanced ZEV Componentry Allowance:**

High Pressure Gaseous or Hydrogen Fuel Storage:

Qualifying HEV Electric Drive System: NOT APPLICABLE

Allowance for Qualifying HEV Electric Drive System:

Fuel Cycle Emissions:

Hydrogen Internal Combustion Engine:

Allowance for US06 Capability:

**Model Type:**

Transmission Set Number: 1 (Select a sequential number, starting with 1 for each Transmission Set Number.)

Transmission Type: AUTOMATIC (WITH LOCKUP) If Other, Specify:

Transmission Gear #:

Model Type:

Axle Ratio	
3.8	
Evap Family Set Number (From CSI 6A)	Fuel Tank Set Number (From CSI 6A)
1	1
CSI 7 Manufacturer Note:	
<b>CSI 10A</b>	
<b>CSI 10B (All fields in red are considered CBI)</b>	