

# CARB LDV E-Cert Form

## Version 2.0.5.0

**Please enter all data in UPPERCASE.**

[illegible]

## Contact Information

CARB MFR Code: ARB

First Name:	LUCKY
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Last Name:	BENEDICT
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Phone Number: 626 4500 0000

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## Application

## General Information

CARB MFR Code:	ARB
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Model Year:	2015
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Test Group	FPQRD05.7VY8
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Name: \_\_\_\_\_

Application Type: NEW

## CSI 1

Durability Group Name:	FPQRGPCGNF01
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Running Change Reference Number/Name:

CARB TG Classification: 50 STATES

CARB TG Interim / In-Use FTP Standard: NOT APPLICABLE

CARB TG Interim / In-Use SFTP Standard: NMOG+NOx

Federally-Certified Vehicle (Cleaner Federal Vehicle):	<u>NO, THIS TEST GROUP COMPLIES WITH CA LOW EMISSION VEHICLE STANDARDS</u>
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CARB FTP Standard: LEV3 ULEV250

EPA FTP Standard:

TIER2 BIN5

SFTP Standard:

LEV 3 COMPOSITE

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:

DEDICATED SINGLE 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:

E-14-1022

CSI 1 Manufacturer Notes:

CSI 2A

Exhaust Emissions UL Years:

15

Miles:

150000

Is any model in the TG granted DOR?

NO

Does NMOG Cert include DOR NMOG Credit?

NO

Is any model in the TG granted Non-PZEV Zero Evap?

NO

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

NO

Direct measurement of NMOG?

NO

NMOG+NOx fleet average credit for extended warranty?

NO

FTP NMOG/NMHC ratio:

1.05

HCHO/NMHC ratio:

0.025

RAF for NMOG:

RAF for Methane:

FTP Exhaust Emissions:

FTP Exhaust Emissions Test Fuel:

CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)

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									
50K STD									
UL CERT			0.0812	0.85	0.3			0.0413	
UL STD			0.250	6.4	16	0.06		0.250	

CSI 2A Manufacturer Note for FTP Exhaust Emissions:

SFTP Exhaust Emissions:

SFTP Exhaust Emissions Test Fuel: CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)

If Other, Specify:

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

SFTP Test Cycle	US06			SC03		Composite		
Air Pollutant	xxHC + NOx (g/mi)	CO (g/mi)	PM (mg/mi)	xxHC + NOx (g/mi)	CO (g/mi)	xxHC + NOx (g/mi)	CO (g/mi)	PM (mg/mi)
4K CERT:								
4K STD:								
UL CERT:						0.2284	4.21	
UL BIN:								
UL STD:						0.800	22.0	

CSI 2A Manufacturer Note for SFTP Exhaust Emissions:

CSI 2B

Evaporative/Refueling Emissions:

Evap Data Set Number:	<input type="text" value="1"/>	(Select a sequential number, starting with 1 for each Evaporative Data Set.)
Evap Refuel Family:	<input type="text" value="FPQRR0.00VYW"/>	
Certification option for evaporative emissions:	<input type="text" value="NOT APPLICABLE"/>	
Evap Emission STD Vehicle Class:	<input type="text" value="Select..."/>	
Cert Test Fuel for Evap:	<input type="text" value="Select..."/>	
If Other, Specify:	<input type="text"/>	
Cert Test Fuel for ORVR:	<input type="text" value="Select..."/>	
If Other, Specify:	<input type="text"/>	
Modified Test Procedure for Evap Test?	<input type="text" value="Select..."/>	

(If yes, describe modification & approval ref # in  
Manufacturer Note)

Evap Pollutant Type: Select...

	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:							
FEL:							
STD:							

Evaporative Emissions:

Leak Family Identifier	Cert (inches)	Standard (inches)
Evap UL Years: <input type="text"/>	Evap UL Miles: <input type="text"/>	
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:	<div></div>	

CSI 3

Test Group Description:

Engine Set Number:	<u>1</u>	(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:	<u>4-STROKE SPARK IGNITION</u>	If Other:

Cylinder/Block Arrangement:

V-SHAPED ENGINE

Number of Cylinders/Rotors:

8

Engine Cooling Medium:

OTHER

Engine Displacement (L):

5.7

If Other:

If Other:

Intake Valves per Cylinder:	Exhaust Valves per Cylinder:
2	2

Engine Valvetrain:

DUAL OVERHEAD CAM

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)

Cylinder Deactivation:

NO

If Other:

Exhaust Valve Lift:

FIXED 1 (ONLY ONE VALVE LIFT)

Engine Special Features 1	Engine Special Features 2
NOT APPLICABLE	NOT APPLICABLE

TG Operating Fuel	TG Fuel Metering	TG Fuel Metering (If Other)	Rated Power (hp)	@RPM	Peak Torque (foot-pounds)	@RPM
COMPRESSED NATURAL GAS	SEQUENTIAL MULTIPOINT FUEL INJECTION		320	2,600	450	3,000

CSI 3 Manufacturer Note:

CSI 4 (All fields in red are considered CBI)

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

ECS Set Number:	<input type="text" value="1"/>	(Select a sequential number, starting with 1 for each Set Number.)
Electronic Controls:	<input type="text" value="ECM"/>	If Other:
ECS Configuration:	<input type="text" value="2HO2S(2), 2TWC, SFI"/>	
Exhaust Gas Recirculation (EGR):	<input type="text" value="NO"/>	
Cooled EGR:	<input type="text" value="NO"/>	
EGR Type:	<input type="text" value="NOT APPLICABLE"/>	If Other:
Air Aspiration Method in the TG:	<input type="text" value="NATURALLY ASPIRATED"/>	If Other:
Number of Air Aspiration Devices:		
Air Aspiration Configuration:	<input type="text" value="NONE"/>	
Charge Air Cooler Type:	<input type="text" value="NOT APPLICABLE"/>	
Number of Charge Air Coolers:	<input type="text" value="0"/>	
Charge Air Cooler Configuration:	<input type="text" value="NONE"/>	
Air Injection:	<input type="text" value="NOT APPLICABLE"/>	If Other:
Direct Ozone Reduction (DOR) Device:	<input type="text" value="NO"/>	
Total Number of Physical Container(s) of ATD(s):	<input type="text" value="2"/>	
This ECS Set is used for Production Vehicles:	<input type="text" value="YES"/>	
This ECS Set is used for EDV:	<input type="text" value="YES"/>	
This ECS Set is used for DDV:	<input type="text" value="YES"/>	
CSI 4 Manufacturer Note:	<div></div>	

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

ATD Container Number:	<input type="text" value="1"/>	(Select a sequential number, starting with 1 for each ATD container.)
After-Treatment Type:	<input type="text" value="THREE-WAY CATALYST"/>	
200k Miles Extended Warranty for	<input type="text" value="Select..."/>	

Particulate Filter:

**Total Number of Physical Substrates (bricks) in this container:** 2

**ATD Note:** MANUFACTURED BY JOHNSON MATTHEY

**Brick (Substrate) Information:**

**Size of Substrate (liters):** 4.1

**Substrate Precious Metals:** PALLADIUM/RHODIUM

**If  
Other:**

**Substrate Material:** CERAMIC

**If  
Other:**

**Substrate Construction:** MONOLITH

**If  
Other:**

**Cell Geometry:** HONEYCOMB

**If  
Other:**

**Substrate Cell Density (# of cells / in<sup>2</sup>):** 580

**Substrate Specific Active** 800

**Surface Area (m<sup>2</sup>/liter):**

**Precious Metal Loading Rate (g/liter):** 2.46

**Precious Metal Composition:** 2.3/0.16

**Uniform Loading of Precious Metals?** YES

**Size of Substrate (liters):** 4.1

**Substrate Precious Metals:** PALLADIUM/RHODIUM

**If  
Other:**

<b>Substrate Material:</b>	<u>CERAMIC</u>	<b>If</b>
<b>Substrate Construction:</b>	<u>MONOLITH</u>	<b>Other:</b>
<b>Cell Geometry:</b>	<u>HONEYCOMB</u>	<b>If</b>
<b>Substrate Cell Density (# of cells / in<sup>2</sup>):</b>	580	<b>Other:</b>
<b>Substrate Specific Active Surface Area (m<sup>2</sup>/liter):</b>	800	
<b>Precious Metal Loading Rate (g/liter):</b>	2.46	
<b>Precious Metal Composition:</b>	2.3/0.16	
<b>Uniform Loading of Precious Metals?</b>	<u>YES</u>	
ATD Container Number:	<u>2</u>	(Select a sequential number, starting with 1 for each ATD container.)
After-Treatment Type:	<u>THREE-WAY CATALYST</u>	
200k Miles Extended Warranty for Particulate Filter:	<u>Select...</u>	
<b>Total Number of Physical Substrates (bricks) in this container:</b>	2	
<b>ATD Note:</b>	MANUFACTURED BY JOHNSON MATTHEY	
<b>Brick (Substrate) Information:</b>		
<b>Size of Substrate (liters):</b>	4.1	
<b>Substrate Precious Metals:</b>	<u>PALLADIUM/RHODIUM</u>	<b>If</b>
		<b>Other:</b>

Substrate Material:	<u>CERAMIC</u>	If
Substrate Construction:	<u>MONOLITH</u>	Other:
Cell Geometry:	<u>HONEYCOMB</u>	If
Substrate Cell Density (# of cells / in <sup>2</sup> ):	580	Other:
Substrate Specific Active Surface Area (m <sup>2</sup> /liter):	800	
Precious Metal Loading Rate (g/liter):	2.46	
Precious Metal Composition:	2.3/0.16	
Uniform Loading of Precious Metals?	<u>YES</u>	
Size of Substrate (liters):	4.1	
Substrate Precious Metals:	<u>PALLADIUM/RHODIUM</u>	If
Substrate Material:	<u>CERAMIC</u>	Other:
Substrate Construction:	<u>MONOLITH</u>	If
Cell Geometry:	<u>HONEYCOMB</u>	Other:
Substrate Cell Density (# of cells / in <sup>2</sup> ):	580	
Substrate Specific Active Surface Area (m <sup>2</sup> /liter):	800	
Precious Metal Loading Rate (g/liter):	2.46	
Precious Metal Composition:	2.2/0.26	
Uniform Loading of Precious Metals?	<u>YES</u>	

Sensor Type: HEATED OXYGEN SENSOR

**Other Sensor Information:**

Sensor Type: Select...

If Other, Specify:

Number of Sensors:

**CSI 5A (All fields in red are considered CBI)**

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

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

Test Group Name: FPQRD05.7VY8

EDV Division Name: CHEVROLET

EDV Model Name: TAHOE

EDV Test Vehicle ID: D426421

EDV Test Data Type: NEW TEST DATA

Original TG of EDV: FPQRD05.7VY8

Original Evap Family of EDV:

EDV Engine Code: AB-200

EDV Displacement (liters): 5.7

EDV Cylinder (Block) Arrangement: V-SHAPED ENGINE

If Other, Specify:

EDV Number of Cylinders: 8

EDV Number of Intake Valves per Cylinder: 2

EDV Number of Exhaust Valves per Cylinder: 2

EDV Drive System: FRONT WHEEL DRIVE

EDV N/V Ratio: 26.1

EDV Curb Weight (lb): 7300

EDV LVW (lb):	<input type="text" value="7600"/>	
EDV ALVW (lb):	<input type="text" value="8000"/>	
EDV ETW (lb):	<input type="text" value="8000"/>	
EDV GVWR (lb):	<input type="text" value="8700"/>	
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="320"/>	@ RPM: <input type="text" value="5,600"/>
EDV Transmission Type:	<u>AUTOMATIC (WITH LOCKUP)</u>	
EDV Number of Transmission Gears:	<input type="text" value="6"/>	
Alternate Shift:	<u>NO</u>	
Shift Indicator Lamp (SIL):	<u>NO</u>	
Transmission Shift Mode for Exhaust Emission Test:	<u>NORMAL</u>	If Other:
<b>ATD Grouping Statistic of EDV:</b>	<input type="text" value="2.7"/>	

Tire Size:	Front: <input type="text" value="265/70R17E"/>	Rear: <input type="text" value="265/70R17E"/>
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**Raw Test Results without DF:**

Test Type:	<u>FEDERAL TEST PROCEDURE (FTP)</u>
Tested By:	<u>MANUFACTURER</u>
Test ID:	<input type="text" value="FTP01"/>
Test Date:	<input type="text" value="6/25/2013"/>
Exh Test Fuel:	<u>CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)</u>
If Other, Specify:	<input type="text"/>
Tested For:	<u>CERTIFICATION</u>
Target Coefficient A (lb <sub>f</sub> ):	<input type="text" value="63.7"/>
Target Coefficient B (lb <sub>f</sub> /mph):	<input type="text" value="1.643"/>
Target Coefficient C (lb <sub>f</sub> /mph <sup>2</sup> ):	<input type="text" value="0.0281"/>
PHEV Operating Mode:	<u>NOT APPLICABLE</u>
Is this the official certification test?:	<u>YES</u>

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)
	0.0111	0.0131	0.068	0.85	0.3		594	10.7	0.332	

Raw Test Results without DF:

Test Type:

SFTP-US06 (FULL)

Tested By:

MANUFACTURER

Test ID:

7171

Test Date:

8/14/2013

Exh Test Fuel:

CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)

If Other, Specify:

Tested For:

CERTIFICATION

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

63.7

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

1.643

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

0.0281

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)
	0.138	0.140	0.430	9.6			667	8.1	0.211	

Raw Test Results without DF:

Test Type:

SFTP-SC03

Tested By:

MANUFACTURER

Test ID:

3225

Test Date:

8/20/2013

Exh Test Fuel:

CNG - CARB CERT FUEL (CA ExTP II A 100.3.5)

If Other, Specify:

Tested For:

CERTIFICATION

Target Coefficient A (lb<sub>f</sub>): 63.7

Target Coefficient B (lb<sub>f</sub>/mph): 1.643

Target Coefficient C (lb<sub>f</sub>/mph<sup>2</sup>): 0.0281

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)
	0.040	0.043	0.066	3.3			582	10.9	0.143	

Raw Test Results without DF:

Test Type: HIGHWAY CYCLE (HWY)

Tested By: MANUFACTURER

Test ID: 4445

Test Date: 6/25/2013

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

If Other, Specify:

Tested For: CERTIFICATION

Target Coefficient A (lb<sub>f</sub>): 63.7

Target Coefficient B (lb<sub>f</sub>/mph): 1.643

Target Coefficient C (lb<sub>f</sub>/mph<sup>2</sup>): 0.0281

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)
	0.0285	0.0300	0.013	1.1			520	13	0.221	

CSI 5A Manufacturer Note:

FTP NMOG CERT VALUE= NMHC+ALCOHOL+CARBONYLS =0.0111+0.002+0.000=0.0131

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

Durability Data Vehicle (DDV) and Emission Test Data:

DDV Set Number:	<input type="text" value="1"/>	(Select a sequential number, starting with 1 for each Set Number.)
MFR Vehicle ID:	<input type="text"/>	
Durability Group Method:	<u>AGED PARTS</u>	
DDV ECS Set Number (From CSI 4):	<input type="text"/>	
<b>ATD Grouping Statistic:</b>	<input type="text" value="2.7"/>	(ATD grouping statistic for this set of ATDs used for the DDV)
<b>Max ATD Grouping Statistic:</b>	<input type="text" value="2.7"/>	(Maximum ATD grouping statistic for the durability group of the DDV)
<b>Min ATD Grouping Statistic:</b>	<input type="text" value="2.7"/>	(Minimum ATD grouping statistic for the durability group of the DDV)
Durability Data Type:	<u>Select...</u>	
Original Durability Group Name:	<input type="text"/>	
Aging Method:	<u>Select...</u>	
Manufacturer ADP CARB Approval Ref #:		
Durability Group Equivalency Factor:	<input type="text"/>	
ADP/Bench-aged Components:	<input type="text" value="CATALYSTS, O2 SENSORS,"/>	

Durability Group Operating Fuel	Durability Group Fuel Metering	Durability Group Fuel Metering Other
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CSI 5B Manufacturer Notes:

CSI 6A

CSI 6B

CSI 6C

CSI 7 (All fields in red are considered CBI)

Vehicle Model Summary:

Model Number:	<div><div>1</div><div>(Select a sequential number, starting with 1 for each Model Number.)</div></div>
Vehicle Make:	<div>CHEVROLET</div>
Carline Name:	<div>TAHOE</div>
Badge Name:	<div>TAHOE</div>
Body Style:	<div>PICKUP</div>
MFR Model Code:	<div>DS32</div>
Trim Level (i.e., CE, LE, etc):	<div></div>
Vehicle Class:	<div>MEDIUM-DUTY VEHICLE (GVWR = 8501 ~ 10000, NON-MDPV)</div>
ECS Set Number (From CSI 4):	<div>1</div>
Engine Code:	<div>AB-100</div>
Engine Set Number (From CSI 3):	<div>1</div>
Evap Family:	<div>FPQRR0.00VYW</div>
Leak Family Identifier: (From CSI 2B)	
Min Curb Weight (lbs):	<div>7300</div>

Max Curb Weight (lbs):	<input type="text" value="7300"/>
Min ETW (lbs):	<input type="text" value="8000"/>
Max ETW (lbs):	<input type="text" value="8000"/>
Min GVWR (lbs):	<input type="text" value="8700"/>
Max GVWR (lbs):	<input type="text" value="8700"/>
Drive System:	<u>FRONT WHEEL DRIVE</u>

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

HEV Test Vehicle ID: (From CSI 10A)	
Regenerative Braking:	<u>NOT APPLICABLE</u>
Modified Test Procedure:	<u>NO</u>
Shift Indicator Lamp (SIL):	<u>NO</u>
Driver Selectable Modes:	<u>NO</u>
If Yes, Describe the Modes:	

Manufacturer Shift Schedule No. (City, Hwy, US06, SC03):	<input type="text"/>
Label Type:	<u>50 STATES</u>

CA Projected Sales:	<input type="text" value="42"/>
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Section 177 States Projected Sales:	<input type="text" value="190"/>
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NMOG Credit Non PZEV Zero Evap:	<input type="text"/>
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NMOG Credit DOR Vehicle:	<input type="text"/>
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PZEV Allowances:

Baseline PZEV Allowance:	<input type="text" value="0"/>
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Zero Emissions VMT Allowance:	<input type="text"/>
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Advanced ZEV Componentry Allowance:

High Pressure Gaseous or Hydrogen Fuel Storage:	<input type="text" value="0"/>
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Allowance for Qualifying HEV Electric Drive System:	<input type="text" value="0"/>
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Fuel Cycle Emissions:	<input type="text" value="0"/>
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Hydrogen Internal Combustion Engine:	
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Qualifying HEV Electric Drive System: NOT APPLICABLE

Allowance for US06 Capability:	<input type="text" value="0"/>	
	<input type="text" value="0"/>	
<b>Model Type:</b>		
Transmission Set Number:	<input type="text" value="1"/>	(Select a sequential number, starting with 1 for each Transmission Set Number.)
Transmission Type:	<u>AUTOMATIC (WITH LOCKUP)</u> If Other, Specify:	
Transmission Gear #:	<input type="text" value="6"/>	
Model Type:	<input type="text"/>	
<b>Axle Ratio</b>		
<input type="text" value="3.75"/>		
<b>Evap Family Set Number (From CSI 6A)</b>		<b>Fuel Tank Set Number (From CSI 6A)</b>
CSI 7 Manufacturer Note:	<div></div>	
<b>CSI 10A</b>		
<b>CSI 10B (All fields in red are considered CBI)</b>		