

CARB LDV E-Cert Form

Version 2.0.5.0

Please enter all data in UPPERCASE.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Contact Information

CARB MFR Code:	ARB
First Name:	STEVEN
Last Name:	HADA
Phone Number:	626-575-6641
Email Address:	SHADA@ARB.CA.GOV

Application

General Information

CARB MFR Code:	ARB
Model Year:	2018
Test Group Name:	JARBV0.99HEV
Application Type:	NEW

CSI 1

Durability Group Name:	JARBHHGNNHEV
Running Change Reference Number/Name:	
CARB TG Classification:	50 STATES
CARB TG Interim / In-Use FTP Standard:	NMOG+NOx
CARB TG Interim / In-Use SFTP Standard:	NMOG+NOx
Federally-Certified Vehicle (Cleaner Federal Vehicle):	NO, THIS TEST GROUP COMPLIES WITH CA LOW EMISSION VEHICLE STANDARDS
CARB FTP Standard:	LEV3 SULEV20

EPA FTP Standard:

NOT APPLICABLE

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:

PASSENGER CAR

Does this TG meet optional LEV NOx exhaust emission standard certification for "Work Trucks"?:

NO

TG Fuel Category:

PLUG-IN HYBRID ELECTRIC 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-99-999

CSI 1 Manufacturer Notes:

THIS IS A TEST FILE, MAY 2014.

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?

YES

NMOG+NOx fleet average credit for extended warranty?

NO

FTP NMOG/NMHC ratio:

1.10

HCHO/NMHC ratio:

0.009

RAF for NMOG:

RAF for Methane:

FTP Exhaust Emissions:

FTP Exhaust Emissions Test Fuel:

CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

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)			0.037	0.8	7				
4K STD (50°F)			0.040	1.0	8				
50K CERT									
50K STD									
UL CERT			0.018	0.2	3	0.004		0.009	
UL STD			0.020	1.0	4	0.01		0.020	

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									9.7
50K STD									10.0
UL CERT									
UL STD									

CSI 2A Manufacturer Note for FTP Exhaust Emissions:

THIS IS A TEST, THIS IS ONLY A TEST.™

SFTP Exhaust Emissions:

SFTP Exhaust Emissions Test Fuel: CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

If Other, Specify:

Modified Test Procedure for SFTP Test? (If yes, describe modification

NO

& approval ref # in SFTP
Manufacturer Note)

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:						0.043	3.9	
UL BIN:						0.050		
UL STD:						0.097	4.2	

CSI 2A Manufacturer Note for
SFTP Exhaust Emissions:

THIS IS A TEST.

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: JARBR0222HEV

Certification option for evaporative emissions: LEV 3 OPTION 2 WITH FEL

Evap Emission STD Vehicle Class: PASSENGER CAR

Cert Test Fuel for Evap: CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

If Other, Specify:

Cert Test Fuel for ORVR: GASOLINE - TIER 2 UNLEADED (40CFR86.113-04(a)(1))

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:	0.099	0.077	0.01			0.007	0.06
FEL:	0.250	0.250					
STD:	0.300	0.300	0.05			0.020	0.20

Evaporative Emissions:

Leak Family Identifier	Cert (inches)	Standard (inches)
JARBR0222HEV-L01	0.007	0.02

Evap UL Years: 15

Evap UL Miles: 150000

ORVR UL Years: 15

ORVR UL Miles: 150000

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 REAR ENGINE

(relation to the front of the vehicle):

TG Combustion Cycle: 4-STROKE SPARK IGNITION

If Other:

Cylinder/Block Arrangement: INLINE

If Other:

Number of Cylinders/Rotors: 3

Engine Cooling Medium: LIQUID

If Other:

Engine Displacement (L): 0.99

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

Engine Valvetrain: DUAL OVERHEAD CAM

If Other:

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

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

(VVT):

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

Cylinder Deactivation:NO

Engine Special Features 1	Engine Special Features 2
<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>GASOLINE</u>	<u>DIRECT FUEL INJECTION</u>		88	6,100	77	4,100

CSI 3 Manufacturer Note:

THIS IS A TEST.

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:PCMIf Other:

ECS Configuration:TWC, WR-HO2S, HO2S, DFI, TC, CAC

Exhaust Gas Recirculation (EGR):NO

Cooled EGR:NOT APPLICABLE

EGR Type:NOT APPLICABLEIf Other:

Air Aspiration Method in the TG:SINGLE STAGE TURBO CHARGEDIf Other:

Number of Air Aspiration Devices:1

Air Aspiration Configuration:SINGLE

Charge Air Cooler Type:	<u>AIR-TO-AIR</u>		
Number of Charge Air Coolers:	<input type="text" value="1"/>		
Charge Air Cooler Configuration:	<u>SINGLE</u>		
Air Injection:	<u>NOT APPLICABLE</u>	If Other:	
Direct Ozone Reduction (DOR) Device:	<u>NO</u>		
Total Number of Physical Container(s) of ATD(s):	<input type="text" value="1"/>		
This ECS Set is used for Production Vehicles:	<u>YES</u>		
This ECS Set is used for EDV:	<u>YES</u>		
This ECS Set is used for DDV:	<u>YES</u>		
CSI 4 Manufacturer Note:	<div>TEST.</div>		

After-Treatment Device (ATD) Information:

ATD Container Number:	<u>1</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>	
Total Number of Physical Substrates (bricks) in this container:	<input type="text" value="1"/>	
ATD Note:	<div>BREATHE E-Z CATALYST CO.</div>	

Brick (Substrate) Information:

Size of Substrate (liters):	<input type="text" value="2.99"/>	
Substrate Precious Metals:	<input type="text" value="PLATINUM"/>	If Other:
Substrate Material:	<input type="text" value="CERAMIC"/>	If Other:
Substrate Construction:	<input type="text" value="MONOLITH"/>	If Other:
Cell Geometry:	<input type="text" value="SQUARE"/>	If Other:
Substrate Cell Density (# of cells / in ²):	<input type="text" value="999"/>	
Substrate Specific Active Surface Area (m ² /liter):	<input type="text" value="999"/>	
Precious Metal Loading Rate (g/liter):	<input type="text" value="999"/>	
Precious Metal Composition:	<input type="text" value="999"/>	
Uniform Loading of Precious Metals?	<input type="text" value="YES"/>	

Exhaust Feedback Sensor Information:

Sensor Type:	<u>WIDE RANGE/LINEAR/AIR-FUEL RATIO HEATED OXYGEN SENSOR</u>
Sensor Type:	<u>HEATED OXYGEN SENSOR</u>

Other Sensor Information:

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

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="JARBV0.99HEV"/>	
EDV Division Name:	<input type="text" value="HAHA MOTORS"/>	
EDV Model Name:	<input type="text" value="SONJA DESOTOMAYOR"/>	

EDV Test Vehicle ID:	<input type="text" value="54321"/>		
EDV Test Data Type:	NEW TEST DATA		
Original TG of EDV:			
Original Evap Family of EDV:			
EDV Engine Code:	<input type="text" value="2014A"/>		
EDV Displacement (liters):	<input type="text" value="0.99"/>		
EDV Cylinder (Block) Arrangement:	INLINE		
If Other, Specify:	<input type="text"/>		
EDV Number of Cylinders:	<input type="text" value="3"/>		
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:	REAR WHEEL DRIVE		
EDV N/V Ratio:	<input type="text" value="99"/>		
EDV Curb Weight (lb):	<input type="text" value="1999"/>		
EDV LVW (lb):	<input type="text"/>		
EDV ALVW (lb):	<input type="text"/>		
EDV ETW (lb):	<input type="text" value="2125"/>		
EDV GVWR (lb):	<input type="text" value="3500"/>		
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="88"/>	@ RPM:	<input type="text" value="6,100"/>
EDV Transmission Type:	CONTINUOUSLY VARIABLE		
EDV Number of Transmission Gears:	<input type="text"/>		
Alternate Shift:	<u>NO</u>		
Shift Indicator Lamp (SIL):	<u>NO</u>		
Transmission Shift Mode for Exhaust Emission Test:	<u>NORMAL</u>	If Other:	

ATD Grouping Statistic of EDV:

9

Tire Size:

Front:

Rear:

Raw Test Results without DF:

Test Type: FEDERAL TEST PROCEDURE (FTP)

Tested By: CARB

Test ID: 5-2017

Test Date: 5/8/2017

Exh Test Fuel: CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

If Other, Specify:

Tested For: CERTIFICATION

Target Coefficient A (lb_f): 20.1

Target Coefficient B (lb_f/mph): .002

Target Coefficient C (lb_f/mph²): 2.3

PHEV Operating Mode: CHARGE SUSTAINING

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 ₂ (g/mi)	MPG	CH4 (g/mi)	N2O (g/mi)
		0.015	0.003	0.2	3	0.004	98	69.6	.0018	.0022

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:

54321

Durability Group Method:

DF

DDV ECS Set Number (From CSI 4):

1

ATD Grouping Statistic:

99

(ATD grouping statistic for this set of ATDs used for the DDV)

Max ATD Grouping Statistic:

99

(Maximum ATD grouping statistic for the durability group of the DDV)

Min ATD Grouping Statistic:

99

(Minimum ATD grouping statistic for the durability group of the DDV)

Durability Data Type:

NEW TEST DATA

Original Durability Group Name:

Aging Method:

SRC - STANDARD ROAD CYCLE

Manufacturer ADP CARB Approval Ref #:

Durability Group Equivalency Factor:

ADP/Bench-aged Components:

Durability Group Operating Fuel	Durability Group Fuel Metering	Durability Group Fuel Metering Other
GASOLINE	DIRECT FUEL INJECTION	

Raw Exhaust Emission Test Results:

Exhaust Test Date:

1/2/2017

Test Point Mile:

100

MFR Test ID Number:

1

Exh Durability Test Fuel:

CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

If Other:

DF Emissions Test Type:

FEDERAL TEST PROCEDURE (FTP)

PHEV Operating Mode:

CHARGE SUSTAINING

(PHEV test only)

THC (g/mi)	NMHC (g/mi)	NMOG (g/mi)	NOx (g/mi)	CO (g/mi)	HCHO (mg/mi)	PM (g/mi)	CO ₂ (g/mi)	CH ₄ (g/mi)	N ₂ O (g/mi)
		0.013	0.002	0.9	1	0.001	91		

Deterioration Factors (DF):

DF Emissions Test Type: FEDERAL TEST PROCEDURE (FTP)

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								
UL DF		0.001	0.0001	0.0001	0	0.5	0.03	0

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: JARBR0222HEV

ORVR Type: NON-INTEGRATED

Fill Pipe Seal Mechanism: LIQUID TRAP If Other:

Fill Pipe Compliant: YES

Tank Material: HDPE (HIGH-DENSITY POLYETHYLENE)

If Other, Specify:

Tank Temperature Profile Development: ENVIRONMENTAL CHAMBER

Approval # (Environmental Chamber only):

C-99-999

Zero Evap Compliance:

YES

Is the vehicle a PZEV?:

NO

HC Capture Method for Canister Bleed Test:

METHOD A

Evap Family Operating Fuel	Evap Family Operating Fuel Other
<u>GASOLINE</u>	

Canister Information:

Canister Type:

BLEED CANISTER

Number of Canisters:

1

Canister Configuration:

SINGLE

Total Butane Working Capacity (g):

99

Canister Total Bed Volume (cc):

222

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:

YES

Number Of Fuel Tanks:

1

40%-Fill Total Fuel Tank(s) Capacity (Gallons):

7.8

100%-Fill Total Fuel Tank(s) Capacity (Gallons):

19.5

Fuel Tank(s) Total Geometric Volume (Gallons):

21

Fuel Tank Notes:

CSI 6A Manufacturer Note:

CSI 6B

Evaporative Refueling Emission Data Vehicle (EDV) Information:

Evap EDV Set Number:

1

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

Evap Family Name:

JARBR0222HEV

Evap Test Vehicle ID:

54321

Evap Test Vehicle Model:

SONJA DESOTOMAYOR

EDV Evap Type:

NEW TEST DATA

Original Evap Family of Evap EDV:

TG of Evap EDV:

Evap Test Vehicle Engine Code:

2014A

Displacement (liters):

0.99

Rated Power (hp):

88

@RPM:

6,100

Cylinder (Block) Arrangement:

INLINE

If Other, Specify:

Number of Cylinders:

3

Transmission:

CONTINUOUSLY VARIABLE

If Other, Specify:

Number of Transmission Gears:

Target Coefficient A (lb_f):

20.1

Target Coefficient B (lb_f/mph):

.002

Target Coefficient C (lb_f/mph²):

2.3

Tire Size

Front:

Rear:

Curb Weight (lb):

1999

LVW (lb):

ALVW (lb):

ETW (lb):

2125

GVWR (lb):

3,500

Fuel Tank Set Number (From CSI6A):

1

Raw Evaporative Refueling Test Results:

Evap Test Type:

3-DAYS + HOT SOAK (WHOLE VEHICLE, G/TEST)

Evap Test Date:

1/31/2017

Evap Test ID Number:

1

Tested By:

MANUFACTURER

Evap Test Fuel:

CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

If Other, Specify:

Official Cert Test:

YES

Tested For:

CERTIFICATION

R/L Test:

Test Procedure:

CARB

Evap Pollutant Type:

TOTAL HYDROCARBONS (THC)

	1 st Day	2 nd Day	3 rd Day	Hot Soak
Raw Evap Test for 3D+HS (g/test)	0.199	0.199	0.188	0.050
Raw Evap Test for 2D+HS				

(g/test)			
----------	--	--	--

Raw Evap Test for Running Loss (g/mi):	0.01
--	------

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:	2/5/2017
-----------------	----------

Evap Test ID Number:	2
----------------------	---

Tested By:	MANUFACTURER
------------	--------------

Evap Test Fuel:	CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)
-----------------	--

If Other, Specify:	
--------------------	--

Official Cert Test:	YES
---------------------	-----

Tested For:	CERTIFICATION
-------------	---------------

R/L Test:	
-----------	--

Test Procedure:	CARB
-----------------	------

Evap Pollutant Type:	TOTAL HYDROCARBONS (THC)
----------------------	--------------------------

	1 st Day	2 nd Day	3 rd Day	Hot Soak
Raw Evap Test for 3D+HS (g/test)				
Raw Evap Test for 2D+HS (g/test)	0.077	0.070		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:	ON-BOARD REFUELING VAPOR RECOVERY (G/GALLON)
-----------------	--

Evap Test Date:	2/6/2017
-----------------	----------

Evap Test ID Number:

3

Tested By:

MANUFACTURER

Evap Test Fuel:

GASOLINE - TIER 2 UNLEADED (40CFR86.113-04(a)(1))

If Other, Specify:

Official Cert Test:

YES

Tested For:

CERTIFICATION

R/L Test:

Test Procedure:

CARB

Evap Pollutant Type:

TOTAL HYDROCARBONS (THC)

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

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

Raw Evap Test for ORVR (g/gallon):

0.06

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

Raw Evaporative Refueling Test Results:

Evap Test Type:

CANISTER BLEED (G/TEST)

Evap Test Date:

2/5/2017

Evap Test ID Number:

CB1

Tested By:

MANUFACTURER

Evap Test Fuel:

CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

If Other, Specify:

Official Cert Test:

YES

Tested For:

CERTIFICATION

R/L Test:

Test Procedure:

CARB

Evap Pollutant Type:

TOTAL HYDROCARBONS (THC)

--	--	--	--	--

	1 st Day	2 nd Day	3 rd Day	Hot Soak			
Raw Evap Test for 3D+HS (g/test)							
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):	0.007						
Effective Leak Diameter Test Results:							
Evap Test Type: <u>EFFECTIVE LEAK DIAMETER TEST (INCHES)</u>							
Test ID #	Test Date	Alternate TP?	Vgas (m ³ /s)	Pin (kPa)	Patm (kPa)	T (K)	Leak Diameter (inches)
LT00001	2/5/2017	<u>NO</u>	0.00002	350	101	288	0.00723
CSI 6B Manufacturer Note:							

CSI 6C

Evaporative DDV and Durability Test Information:

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

Evaporative Family: JARBR0222HEV

Evap DF Type: MANUFACTURER DF

DDV Evap Type: NEW APPLICATION FOR A TEST GROUP (COMPLETE DATA SET MUST BE SUBMITTED)

Evap Family of Evap DDV:

TG of Evap DDV:

Evap DDV Test Vehicle Model:

Displacement (liters): 0.99

Fuel Tank Set Number (From CSI6A): 1

Evaporative DDV Note:

Durability Information:

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

Durability Information Type: VEHICLE INFORMATION

Manufacturer Durability Set (Bench/Vehicle/Rig Test) ID: 1 (Start with 1 and increment to the total number of different evaporative durability test)

Vehicle Test ID: 99 (Vehicle Evap DF Test Only)

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

Test ID Number: 123

Test Point (miles): 100

Test Date: 5/4/2017

Evap Durability Test Fuel: CA LEV3 E10 CERT GASOLINE (CA ExTP II A 100.3.1.2)

If Other, Specify:

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

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

Raw Evap Test for ORVR (g/gallon):

Used For DF Calculation: YES

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:	0.000	0.000	0.000	0.000
Vehicle Evap DF:				
Overall Certification Evap DF:	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:

1

(Select a sequential number, starting with 1 for each Model Number.)

Vehicle Make:

HAHA

Carline Name:

DESOTOMAYOR

Badge Name:

SONJA DESOTOMAYOR

Body Style:

DROPDEAD COUPÉ

MFR Model Code:

XXX

Trim Level (i.e., CE, LE, etc):

BROUGHAMTASTIC

Vehicle Class:	<u>PASSENGER CAR</u>
ECS Set Number (From CSI 4):	<input type="text" value="1"/>
Engine Code:	<input type="text" value="2014A"/>
Engine Set Number (From CSI 3):	<input type="text" value="1"/>
Evap Family:	<input type="text" value="JARBR0222HEV"/>
Leak Family Identifier: (From CSI 2B)	<input type="text" value="JARBR0222HEV-L01"/>
Min Curb Weight (lbs):	<input type="text" value="1901"/>
Max Curb Weight (lbs):	<input type="text" value="1999"/>
Min ETW (lbs):	<input type="text" value="2000"/>
Max ETW (lbs):	<input type="text" value="2125"/>
Min GVWR (lbs):	<input type="text" value="3500"/>
Max GVWR (lbs):	<input type="text" value="3500"/>
Drive System:	<u>REAR WHEEL DRIVE</u>
<div><div>Electric Drive Motor Set # (From CSI 10A):</div><div><input type="text" value="1"/></div></div>	
HEV Test Vehicle ID: (From CSI 10A)	<input type="text" value="54321"/>
Regenerative Braking:	<u>REAR WHEELS</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="999"/>
Section 177 States Projected Sales:	<input type="text" value="8888"/>
NMOG Credit Non PZEV Zero Evap:	<input type="text"/>
NMOG Credit DOR Vehicle:	<input type="text"/>

PZEV Allowances:

Baseline PZEV Allowance:

0.2

Zero Emissions VMT Allowance:

0

Advanced ZEV Componentry Allowance:

High Pressure Gaseous or Hydrogen Fuel Storage:

0

Qualifying HEV Electric Drive System: TYPE G

Allowance for Qualifying HEV Electric Drive System:

9.9

Fuel Cycle Emissions:

0

Hydrogen Internal Combustion Engine:

0

Allowance for US06 Capability:

0

Model Type:

Transmission Set Number:

1

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

Transmission Type:

CONTINUOUSLY VARIABLE

If Other, Specify:

Transmission Gear #:

Model Type:

VAPORWARE

Axle Ratio

9

Evap Family Set Number (From CSI 6A)	Fuel Tank Set Number (From CSI 6A)
1	1

CSI 7 Manufacturer Note:

CSI 10A

HEV Set Number:

1

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

HEV Energy Storage Device Category:

If Other, Specify:
Does the Test Group include a BEVx?
If yes, select the type of BEVx:
Battery:
Battery Type:
If Other, Specify:
Number of Battery Cells:
Total Weight of Battery System (kg):
Total Battery System Voltage:
Total Battery System Specific Energy Density (Whr/Kg):
Battery Thermal Management:
If Other, Specify:
Electric Vehicle Charging Requirements (Sec. 1962.3)?:
Total Number of Capacitors:

BATTERY

NO

Select...

LI+ (LITHIUM ION)

77

123

120

99

ACTIVE-AIR COOLED

YES, THIS MODEL COMPLIES WITH SECTION 1962.3 'ELECTRIC VEHICLE CHARGING REQUIREMENTS'

Capacitor Rating (Farads)

Drive Motor:
Number of Drive Motors:
Electric Drive Motor Set Number:
Drive Motor Type:
If Other, Specify:
Drive Motor Mechanical Power (kW):
Drive Motor Peak Torque (Nm):

1

1

AC INDUCTION

88

123

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

@RPM: 5,000

HEV Test Parameter Information Section:

HEV Test Vehicle ID:
HEV Electric Drive System Peak Power Output (kW):
HEV Traction Drive System Voltage (V):
HEV Traction Drive System Boost:

54321

77

120

YES, HEV HAS TRACTION DRIVE BOOST SYSTEM

25 of 27

HEV Regenerative Braking: ELECTRICAL REGENERATIVE BRAKING

If Other, Specify:

Off-Vehicle Charge Capable Hybrid Electric Vehicles:

Urban	
Manufacturer Urban Test #:	2
Charge Depleting Cycle Range (R_{cdcu} , mi):	50
Charge Depleting Actual Range (R_{cda} , mi):	40
Charge Depleting to Charge Sustaining Range (R_{cdcsu} , mi):	12
All Electric Range (AER_u , mi):	51
Equivalent All Electric Range ($EAER_u$, mi):	42
Equivalent Electric Range Fraction (ERF_u , %):	88
Equivalent All-Electric Range Energy Consumption ($EAEREC_u$, kWh/mi):	3
Highway	
Manufacturer Highway Test #:	2
Charge Depleting Cycle Range (R_{cdch} , mi):	30
Charge Depleting Actual Range (R_{cdah} , mi):	25
Charge Depleting to Charge Sustaining Range (R_{cdcsh} , mi):	24
All Electric Range (AER_h , mi):	27
Equivalent All Electric Range ($EAER_h$, mi):	26
Equivalent Electric Range Fraction (ERF_h , %):	77
Equivalent All-Electric Range Energy Consumption ($EAEREC_h$, kWh/mi):	4
US06	
All Electric Range (AER , mi):	6
Urban	

Charge Depleting Net Energy Consumption (E_{cd} , kWh):	35
Net DC Energy from battery expended during test (kWh):	24
AC energy required to fully charge battery after CS or CD test (kWh):	64
Highway	
Charge Depleting Net Energy Consumption (E_{cd} , kWh):	54
Net DC Energy from battery expended during test (kWh):	53
AC energy required to fully charge battery after CS or CD test (kWh):	62
CSI 10A Manufacturer Note:	

CSI 10B (All fields in red are considered CBI)