



Vehicle Architecture	Hybrid
Ocument Date	5/29/2014
Revision Number	1

Downloadable Dynamometer Database (D³)- Test Summary Sheet

Vehicle Setup Information								
Test Cell Location	APRF- Bldg 371							
Vehicle Dynamometer Input								
Test weight [lb]	4000							
Target A [lb]	21.75							
Target B [lb/mph]	0.365							
Target C [lb/mph^2]	0.01859							
Test Fuel Information								
Fuel type	EPA Tier II EEE HF0437							
Fuel density [g/ml]	0.741							
Fuel Net HV [BTU/lbm]	18359							

lest lotted	, eeo	Color	Date CSI) Hot start II.	lest.	Test Con Temp ICJ	Test C.	Vehicle colling	Solar, Speed (CS) Speed	Veicle Color Intines	Hood D Control	Window Up) or ICI	Cloie Costion IClose	Crede E Anij Or Down	Clock MI Chong Inport	Cycle HU h. Children of Emiss Bag)	Cycle HILL De Called Called Called Called Called Constant DC Ahr	Cycle Hy ban Ber Energy IC	DC When CC Why DC Whing Onsumpri
	Test information			Test	cell inforr	nation	Test cell	setup	Ve	ehicle set	tup			Ele	ectric ener	gy consun	nption	
Test seque	nce purpose: AVTE Standar	d Testin	ig		-	-	-		-			-	-		-			
61309047	UDDS CS	CS	09/11/13	-7	40.8	29.3	SM	0	72	Closed	Closed	7.46	28.5	-0.567	289.4	-164.09	-21.99	
61309048	UDDS HS	CS	09/11/13	-7	42.1	29.3	SM	0	72	Closed	Closed	7.47	44.0	0.139	288.2	40.02	5.36	
61309049	UDDS HS	HS	09/11/13	-7	41.2	29.3	SM	0	72	Closed	Closed	7.47	48.1	0.143	285.5	41.04	5.49	
61309050	HWY	HS	09/11/13	-6	30.7	29.3	SM	0	72	Closed	Closed	10.26	51.7	-0.053	283.6	-15.03	-1.46	
61309051	US06	HS	09/11/13	-5	23.0	29.3	SM	0	72	Closed	Closed	8.02	36.7	-0.158	286.8	-46.53	-5.80	
61309014	UDDS CS	CS	09/05/13	23	54.3	29.5	SM	0	OFF	Closed	Down	7.46	51.3	0.061	281.3	16.37	2.19	
61309015	UDDS HS	CS	09/05/13	22	56.6	29.5	SM	0	OFF	Closed	Down	7.46	60.4	-0.042	281.2	-12.28	-1.65	
61309017	HWY	HS	09/05/13	25	43.2	29.5	SM	0	OFF	Closed	Down	10.25	60.9	-0.034	280.2	-9.61	-0.94	
61309018	US06	HS	09/05/13	25	42.3	29.5	SM	0	OFF	Closed	Down	8.01	40.0	0.024	282.6	4.16	0.52	
61309019	SSS 0%	HS	09/05/13	24	43.5	29.5	SM	0	OFF	Closed	Down	14.16	49.9	-0.727	281.9	-204.93	-14.47	
61309020	Passing Manuevers	HS	09/05/13	24	44.4	29.5	SM	0	OFF	Closed	Down	3.04	40.5	0.043	281.6	12.10	3.98	
61309027	WLTP	HS	09/06/13	23	57.0	29.5	SM	0	OFF	Closed	Down	14.39	53.8	-0.074	284.2	-20.84	-1.45	4
		I .																
61309032	UDDS CS	CS	09/09/13	35	43.4	29.2	SM	850	72	Closed	Closed	7.46	46.6	0.054	281.4	14.45	1.94	
61309033	UDDS HS	HS	09/09/13	35	43.7	29.2	SM	850	72	Closed	Closed	7.45	51.9	-0.075	281.6	-21.04	-2.82	
61309037	HWY,Ph2**	HS	09/09/13	37	35.7	29.2	SM	850	72	Closed	Closed	10.25	59.8	0.087	281.8	24.39	2.38	
61309038	US06	HS	09/09/13	37	37.8	29.1	SM	850	72	Closed	Closed	8.01	39.2	-0.338	282.6	-96.71	-12.07	
61309035	SC03, Ph2**	HS	09/09/13	35	43.9	29.2	SM	850	72	Closed	Closed	3.59	47.5	-0.073	280.4	-20.60	-5.75	

Summary notes

For the highway and US06, SC03, cycles only the second (hot) test results are presented in this summary.

Electric energy consumption:

HV battery Integrated net current --> Integrated current as reported by power analyzer

HV battery Average Zero crossing Voltage --> Calculated Average Zero crossing Voltage over the phase or cycle

HV Net Energy --> Integrated power as reported by power analyzer

Note that HV Net Energy is not equal to the product of HV battery Integrated net current times Average Zero crossing Voltage.

* Target Coefficients developed during AVTE coast down testing

** For the Highway, and SC03 at 95F the third phase of the test was completed with the AC off

Advanced Powertrain Research Facility Data referencing:

The purpose of this website is to provide publicly available data regarding advanced technology vehicles. Derived from independent laboratory testing, the data is intended to enhance the understanding of advanced vehicle technologies for researchers, students, and professionals engaged in energy efficient vehicle research, development and education. Data from this website can only be used with the following attribution: "This data is from the Downloadable Dynamometer Database (http://www.transportation.anl.gov/D3/) and was generated at the Advanced Powertrain Research Facility (APRF) at Argonne National Laboratory under the funding and guidance of the U.S. Department of Energy (DOE)" or using a standard bibliographic reference. Please contact d3info@anl.gov for questions, comments, or inquiries.