



## Downloadable Dynamometer Database (D<sup>3</sup>)- Test Summary Sheet



2010 Ford Fusion Hybrid	
Vehicle architecture	HEV
Document date	11/7/2012
Revision number	1
Notes:	

Vehicle Setup Information	
Test cell location	Front
Vehicle Dynamometer Input	
Test weight [lb]	4000
Target A [lb]	26.88
Target B [lb/mph]	0.3426
Target C [lb/mph <sup>2</sup> ]	0.02038
Test Fuel Information	
Fuel type	EPA Tier II EEE Gasoline
Fuel density [g/ml]	0.741
Fuel Net HV [BTU/lbm]	18404

Test ID [R#]	Cycle	Cold start (Cst) Hor start [HS]	Date	Test Cell T Temp [C]	Test Cell RH [%]	Test Cell Baro [In/Hg]	Vehicle cooling fan speed, Speed Match [S/M] or constant speed [CS]	Solar Lamps [W/m <sup>2</sup> ]	Vehicle Climate Control settings	Hood Position [Up] or [Closed]	Window Position [Closed] or [Down]	Cycle Distance [mi]	Cycle Fuel economy [mpg] [Fuel Scale]	Cycle HV battery integrated net current [DC Ah]	Cycle HV battery Average Zero crossing Voltage [V]	Cycle HV battery Net Energy [DC Wh]	Cycle HV battery Net Energy Consumption [DC Wh/mi]
Test information			Test cell information			Test cell setup			Vehicle setup			Electric energy consumption					
Test sequence purpose: Standard testing																	
60910115	UDDS CS	CSt	10/26/2009,	22.47	43.46	29.33	Cst spd	Off	Off	Up	Down	7.45	42.5	0.860	277.381	-10.061	-1.350
60910116	UDDS HS	HSt	10/26/2009,	21.92	43.00	29.34	Cst spd	Off	Off	Up	Down	7.45	47.5	0.770	276.629	-39.024	-5.237
60910120	Highway	HSt	10/26/2009,	22.88	42.24	29.27	Cst spd	Off	Off	Up	Down	10.25	48.1	0.229	276.948	8.469	0.826
60910119	US06	HSt	10/26/2009,	23.29	40.77	29.29	Cst spd	Off	Off	Up	Down	8.02	32.1	0.281	279.955	-17.913	-2.235
60910148	Steady State Speed	HSt	10/28/2009,	23.01	41.62	29.24	Cst spd	Off	Off	Up	Down						
Full charge test summary																	
Re-charging information			N/A Ambient temperature during charge			HV battery integrated current [DC Ah]			N/A								
Level:						Charger integrated current [AC Ah]			N/A								
						HV battery integrated power [DC Wh]			N/A								
						Charger integrated power [AC Wh]			N/A								

**Summary notes**  
 For the highway and US06 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.  
 \* The vehicle coast down information for EPA

**Advanced Powertrain Research Facility Data referencing:**

- This data has originated from the Argonne National Laboratory D<sup>3</sup> website. [http://webapps.anl.gov/vehicle\\_data/](http://webapps.anl.gov/vehicle_data/)
- The purpose of this information is to provide advanced technology vehicle chassis dynamometer test data for the engineering community. Mostly comprised of vehicle benchmarking test results, it is intended for the better understanding of the technology and for education. Data from this website may not be used as a source for publication or profit without consent of Argonne National Laboratory.
- Please contact [d3info@anl.gov](mailto:d3info@anl.gov) for questions, comments or inquiries.