Advanced Powertrain Research Facility

Downloadable Dynamometer Database (D 3)- Test Summary Sheet

2012 Ford Fusion V6

Vehicle Architecture	Conventional
Document Date	8/7/2013
Revision Number	3

Notes:
3.0-liter V6 FFV
-6 spd standard transmission

Vehicle Setup Information

Test Cell Location	2WD
Vehicle Dynamometer Input	
Test weight [lb]	3744
Target A [lb]	33.84
Target B [lb/mph]	-0.2066
Target C [lb/mph^2]	0.02372
Test Fuel Information	
Fuel type	Tier II EEE HF437
Fuel density [g/ml]	0.743
Fuel Net HV [BTU/lbm]	18344

Test ID [#]	Cycle	Cold start (CSt) Hot start [HSt]	Date	Test Cell Temp [C]	Test Cell RH [%]	Test Cell Baro [in/Hg]	Vehicle cooling fan speed: Speed Match [SM] or constant speed [CS]	Solar Lamps [W/m2]	Veicle 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 kWh]	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																	
71206046	UDDS CS	CSt	06/13/12,	20.80	46.82	29.45	Cst spd	Off	Off	Up	Down	7.45	22.2				
71206047	UDDS HS	HSt	06/13/12,	20.78	45.18	29.45	Cst spd	Off	Off	Up	Down	7.43	24.9				
71206049	Highway	HSt	06/13/12,	21.37	37.38	29.43	Cst spd	Off	Off	Up	Down	10.25	38.9				
71206050	US06	HSt	06/13/12,	21.29	36.54	29.41	Cst spd	Off	Off	Up	Down	8.00	25.7				
71206055	Steady State Speed	HSt	06/14/12,	20.77	46.20	29.37	Cst spd	Off	Off	Up	Down						
Full charge test summary											**Totals**	**33.14**					

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 is from EPA testing.

Advanced Powertrain Research Facility Data referencing:

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