Advanced Powertrain Research Facility

Downloadable Dynamometer Database (D 3)- Test Summary Sheet

2012 Ford Focus

Vehicle Architecture	Conventional
Document Date	8/7/2013
Revision Number	3
Notes: 2.0 Ti-VCT GDI Inline 4, 6 speed automatic	

Vehicle Setup Information

Test Cell Location	2WD
Vehicle Dynamometer Input	
Test weight [lb]	3250
Target A [lb]	27.18
Target B [lb/mph]	0.2369
Target C [lb/mph^2]	0.01933
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																	
71207062	UDDS CS	CSt	07/24/12,	21.15	77.47	29.20	Cst spd	Off	Off	Up	Down	7.44	33.3				
71207063	UDDS HS	HSt	07/24/12,	21.34	77.14	29.22	Cst spd	Off	Off	Up	Down	7.43	36.5				
71207065	Highway	HSt	07/24/12,	21.27	75.57	29.23	Cst spd	Off	Off	Up	Down	20.48	53.5				
71207066	US06	HSt	07/24/12,	21.29	73.75	29.25	Cst spd	Off	Off	Up	Down	8.00	33.3				
71207056	Steady State Speed	HSt	07/20/12,	22.33	54.19	29.33	Cst spd	Off	Off	Up	Down						
Full charge test summary											**Totals**	**43.35**					

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

Advanced Powertrain Research Facility Data referencing:

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