Advanced Powertrain Research Facility

Downloadable Dynamometer Database (D[3])- Test Summary Sheet

2009 VW Jetta TDI

Vehicle Architecture	Conventional- Diesel
Document Date	8/7/2013
Revision Number	3
Notes:	

Vehicle Setup Information

Test Cell Location	Front
Vehicle Dynamometer Input	
Test weight [lb]	3625
Target A [lb]	35
Target B [lb/mph]	0.18
Target C [lb/mph^2]	0.0193
Test Fuel Information	
Fuel type	2007 Certification Diesel
Fuel density [g/ml]	0.855
Fuel Net HV [BTU/lbm]	18355

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] (Modal)	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																	
61210094	UDDS CS	CSt	10/25/12,	-6.74	17.90	29.12	SM	Off	Heat Full	Closed	Closed	7.43	25.9				
61210095	UDDS HS	HSt	10/25/12,	-6.66	19.31	29.11	SM	Off	Heat- Fan 3	Closed	Closed	7.43	31.4				
61210097	Highway	HSt	10/25/12,	-6.75	20.26	29.10	SM	Off	Heat- Fan 3	Closed	Closed	10.26	48.7				
61210098	US06	HSt	10/25/12,	-7.57	23.38	29.08	SM	Off	Heat- Fan 3	Closed	Closed	8.03	34.3				
61210099	Steady State Speed	HSt	10/25/12,	-7.29	22.59	29.07	SM	Off	Heat- Fan 3	Closed	Closed						
Full charge test summary											**Totals**						
61210112	UDDS CS	CSt	10/29/12,	21.91	47.72	29.52	SM	Off	Off	Closed	Closed	7.48	31.3				
61210113	UDDS HS	HSt	10/29/12,	21.44	47.42	29.52	SM	Off	Off	Closed	Closed	7.47	35.5				
61210091	Highway	HSt	10/24/12,	23.21	59.96	29.16	SM	Off	Off	Closed	Closed	10.26	52.4				
61210092	US06	HSt	10/24/12,	22.42	56.39	29.15	SM	Off	Off	Closed	Closed	8.02	32.6				
60906082	Steady State Speed	HSt	06/19/09,	20.31	58.50	29.04	SM	Off	Off	Closed	Closed						
Full charge test summary											**Totals**						
61210102	UDDS CS	CSt	10/26/12,	35.72	39.28	29.52	SM	850	AC Full	Closed	Closed	7.44	25.7				
61210103	UDDS HS	HSt	10/26/12,	36.12	40.47	29.54	SM	850	AC Full	Closed	Closed	7.44	25.9				
61210105	Highway	HSt	10/26/12,	37.04	37.44	29.58	SM	850	AC Full	Closed	Closed	10.28	43.6				
61210106	US06	HSt	10/26/12,	37.24	35.60	29.57	SM	850	AC Full	Closed	Closed	8.02	29.6				
61210109	Steady State Speed	HSt	10/26/12,	36.35	38.60	29.54	SM	850	AC Full	Closed	Closed						
Full charge test summary											**Totals**						

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 from EPA testing.