



Downloadable Dynamometer Database (D<sup>3</sup>)- 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]	Vehicle 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 A-h]	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.

Advanced Powertrain Research Facility Data referencing:

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