



Downloadable Dynamometer Database (D³) - Test Summary Sheet

2015 Volkswagon E-Golf	
Vehicle architecture	Battery Electric Vehicle
Document date	1/26/2016
Revision Number	1
Notes:	

Vehicle Setup Information	
Test cell location	ANL APRF Bdg 371
Vehicle dynamometer Input	
Test weight [lb]	3744
Target A [lb]	41.6754
Target B [lb/mph]	0.6423
Target C [lb/mph^2]	0.00992
Test Fuel Information	
Fuel type	Electricity
Fuel density [g/ml]	-
Fuel Net HV [BTU/lbm]	-

Test ID [#]	Cycle	Cold start (CS)	Hot start (HS)	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] (Emiss Bag)	Cycle Fuel Consumed [gall] (Emiss Bag)	Cycle HV battery Integrated net current [DC A]	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						
61511020	UDDS #1, Ph 1+2	CS		11/06/15	-17	13	29	SM	0	72	Closed	Closed	7.45			12.792	343.2	4395.96	588.32
61511020	Hwy #1, Ph 3	HS		11/06/15	-14	11	29	SM	0	72.00	Closed	Closed	10.25			10.187	325.8	3351.86	323.94
61511020	UDDS #2, Ph 4+5	HS		11/06/15	-17	15	29	SM	0	72.00	Closed	Closed	7.49			12.767	320.1	4119.68	545.46
61511020	US06 #1, Ph 6+7	HS		11/06/15	-15	11	29	SM	0	72.00	Closed	Closed	8.00			9.532	311.4	2899.71	370.37
61511021	US06 #2, Ph 1+2	HS		11/06/15	-15	10	29	SM	0	72.00	Closed	Closed	8.02			9.476	306.4	2829.00	360.94
61511021	UDDS #3, Ph 3+4	HS		11/06/15	-17	14	29	SM	0	72.00	Closed	Closed	7.49			6.060	302.5	1833.27	244.91
61511021	HWY #2, Ph 5	HS		11/06/15	-16	13	29	SM	0	72.00	Closed	Closed	2.77			2.332	257.4	677.00	217.05
Full charge test summary										Totals			51.45			63.1		20106	
Re-charging information					-17			Ambient temperature during charge [C]						Total energy used during days testing [DC Wh]			20326		
Level: 2														Charge integrated power [AC Wh]			22828		
61511017	UDDS #1, Ph 1+2	CS		11/05/15	-6	10	29	SM	0	72.00	Closed	Closed	7.45			7.563	348.3	2622.00	353.69
61511017	Hwy #1, Ph 3	HS		11/05/15	-5	9	29	SM	0	72.00	Closed	Closed	10.24			7.774	337.2	2629.87	255.92
61511017	UDDS #2, Ph 4+5	HS		11/05/15	-6	10	29	SM	0	72.00	Closed	Closed	7.45			6.319	330.1	2084.93	280.20
61511017	US06 #1, Ph 6+7	HS		11/05/15	-5	8	29	SM	0	72.00	Closed	Closed	8.02			8.101	322.6	2540.87	325.40
61511018	US06 #2, Ph 3+4	HS		11/05/15	-7	10	29	SM	0	72.00	Closed	Closed	7.43			3.117	316.5	979.00	132.59
61511018	UDDS #3, Ph 1+2	HS		11/05/15	-5	8	29	SM	0	72.00	Closed	Closed	8.04			7.797	317.8	2419.72	582.16
61511018	Hwy #2, Ph 3	HS		11/05/15	-7	10	29	SM	0	72.00	Closed	Closed	3.54			3.117	317.0	979.00	279.36
61511018	UDDS #4, Ph 4+5			11/05/15	-7	9	29	SM	0	72.00	Closed	Closed	14.16			10.849	313.3	3376.89	238.76
61511019	SSS 65 to deplete			11/05/15	-3	8	29	SM	0	72.00	Closed	Closed	1.81			1.726	302.5	512.00	289.27
Full charge test summary										Totals			68.13			56.4		18144	
Re-charging information					-7			Temperature during charge [C]						Total energy used during days testing [DC Wh]			19188		
Level: 2														Charge integrated power [AC Wh]			21595		
61511009	UDDS #1, Ph 1+2	CS		11/03/15	23	50	29	SM	0	Off	Closed	Open	7.46			4.015	351.7	1416.70	189.26
61511009	HWY, Ph 3	HS		11/03/15	25	36	29	SM	0	Off	Closed	Open	10.24			5.813	345.1	2027.00	195.84
61511009	UDDS #2, Ph 4+5	HS		11/03/15	20	55	29	SM	0	Off	Closed	Open	7.49			3.955	340.4	1351.00	179.83
61511009	US06 #1, Ph 6+7	HS		11/03/15	23	37	29	SM	0	Off	Closed	Open	8.03			6.496	332.4	2147.00	268.45
61511010	SSS 65MPH, Ph 1	HS		11/03/15	26	38	29	SM	0	Off	Closed	Open	23.20			17.859	320.6	5961.00	246.75
61511010	US06 #2, Ph 3+4	HS		11/03/15	22	40	29	SM	0	Off	Closed	Open	8.01			6.806	316.3	2184.00	268.35
61511011	UDDS #3, Ph 1+2	HS		11/03/15	20	53	29	SM	0	Off	Closed	Open	7.49			4.155	314.5	1350.32	174.58
61511011	Hwy #2, Ph 3	HS		11/03/15	25	40	29	SM	0	Off	Closed	Open	10.26			6.443	309.1	2075.00	194.05
61511011	UDDS #4, Ph 4+5	HS		11/03/15	20	57	29	SM	0	Off	Closed	Open	7.49			4.071	306.1	1286.00	166.52
61511012	SSS 65 to deplete	HS		11/03/15	23	43	29	SM	0	Off	Closed	Open	0.73			0.502	304.4	156.00	208.67
Full charge test summary										Totals			90.40			60.1		19954	
Re-charging information					23			Temperature during charge [C]						Total energy used during days testing [DC Wh]			19978		
Level: 2														Charge integrated power [AC Wh]			21801		
61511002	SSS 0-80-0 0% Grade	HS		11/02/15	23	40	29	SM	0	Off	Closed	Open	6.23			4.023	348.2	1396.26	225.06
61511003	SSS 0-80-0 6% Grade	HS		11/02/15	23	53	29	SM	0	Off	Closed	Open	6.22			13.076	336.7	4332.65	707.74
61511006	Passing Maneuvers 0,3,6% grade	HS		11/02/15	24	40	29	SM	0	Off	Closed	Open	9.99			15.649	316.6	4764.00	496.01
61511007	25% Grade Test	HS		11/02/15	20	42	29	SM	0	Off	Closed	Open	0.65			4.751	260.8	1408.00	1901.02
61511028	WLTP, Ph 1-4	HS		11/11/15	24	37	29	SM	0	Off	Closed	Open	14.43			9.640	332.1	3143.00	55.15
61511013	UDDS #1, Ph 1+2	CS		11/04/15	36	42	29	SM	850	72.00	Closed	Closed	7.47			5.036	351.4	1749.00	237.03
61511013	Hwy #1, Ph 3	HS		11/04/15	38	29	29	SM	850	72.00	Closed	Closed	10.25			6.122	344.1	2083.00	205.57
61511013	UDDS #2, Ph 4+5	HS		11/04/15	35	55	29	SM	850	72.00	Closed	Closed	7.49			5.088	338.5	1704.00	230.02
61511013	US06 #1, Ph 6+7	HS		11/04/15	35	29	29	SM	850	72.00	Closed	Closed	8.02			6.856	329.8	2181.00	281.29
61511014	SSS 65MPH, Ph 1	HS		11/04/15	39	35	29	SM	850	72.00	Closed	Closed	10.39			8.580	322.3	2695.32	266.10
61511014	US06 #2, Ph 3+4	HS		11/04/15	34	37	29	SM	850	72.00	Closed	Closed	8.03			7.111	319.3	2184.00	282.59
61511015	SC03, Ph 1	HS		11/04/15	35	60	29	SM	850	72.00	Closed	Closed	3.58			2.704	318.3	840.60	240.24
61511015	SC03, Ph 2	HS		11/04/15	35	42	29	SM	850	72.00	Closed	Closed	3.59			2.573	316.7	794.00	226.83
61511015	Hwy #2, Ph 3	HS		11/04/15	38	28	29	SM	850	72.00	Closed	Closed	10.27			6.742	313.4	2077.57	205.76
61511015	UDDS #4, Ph 4+5	HS		11/04/15	36	45	29	SM	850	72.00	Closed	Closed	7.48			5.308	308.5	1600.00	218.80
61511016	SSS 65 to deplete	HS		11/04/15	40	27	29	SM	850	72.00	Closed	Closed	5.27			4.201	290.3	1243.00	231.31
Full charge test summary										Totals			81.84			60.3		19152	
Re-charging information					35			Temperature during charge [C] (w/no solar emulation)						Total energy used during days testing [DC Wh]			19239		
Level: 2														Charge integrated power [AC Wh]			21817		

Summary notes
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.
* Target Coefficients developed during AVTE coast down testing

Advanced Powertrain Research Facility Data referencing:
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