



Downloadable Dynamometer Database (D<sup>3</sup>)- Test Summary Sheet

2013 Dodge Ram 1500 HFE	
Vehicle architecture	Conventional
Document date	5/13/2015
Revision Number	1
Notes:	

Vehicle Setup Information	
Test cell location	ANL APRF Bdg 371
Vehicle dynamometer Input	
Test weight [lb]	4950
Target A [lb]	37.3256
Target B [lb/mph]	1.11147
Target C [lb/mph^2]	0.018876
Test Fuel Information	
Fuel type	EPA Tier II EEE HFO437
Fuel density [g/ml]	0.741
Fuel Net HV [BTU/lbm]	18330

Test ID [#]	Cycle	Cold start (CS) Hot start [Hst]	Date	Test Cell Temp [C]	Test Cell RH [%]	Test Cell Baro [in/Hg]	Vehicle cooling fan speed- Speed Match [SM]	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 [gal] (Emiss Bag)
Test information				Test cell information			Test cell setup		Vehicle setup					
61407041	UDDS CS		07/10/14	-6	7.1	29.5	SM	0	Cold FTP	Closed	Closed	7.45	17.0	0.437
61407042	UDDS HS #1		07/10/14	-6	7.3	29.5	SM	0	Cold FTP	Closed	Closed	7.45	20.0	0.373
61407043	UDDS HS #2		07/10/14	-6	6.8	29.5	SM	0	Cold FTP	Closed	Closed	7.48	20.3	0.368
61407045	HWY		07/10/14	-5	8.8	29.5	SM	0	Cold FTP	Closed	Closed	10.25	29.4	0.349
61407046	US06		07/10/14	-7			SM	0	Cold FTP	Closed	Closed	8.00	19.5	0.410
61407003	UDDS CS		07/03/14	22	45.1	29.4	SM	0	Off	Closed	Down	7.45	19.7	0.379
61407004	UDDS HS #1		07/03/14	23	44.0	29.4	SM	0	Off	Closed	Down	7.46	21.5	0.347
61407005	UDDS HS #2		07/03/14	23	45.2	29.4	SM	0	Off	Closed	Down	7.45	22.1	0.337
61407006	UDDS HS - Start Stop Disabled		07/03/14	22	47.8	29.4	SM	0	Off	Closed	Down	7.45	20.8	0.359
61407007	HWY		07/03/14	25	40.0	29.4	SM	0	Off	Closed	Down	10.25	32.6	0.315
61407008	US06		07/03/14	22			SM	0	Off	Closed	Down	8.00	21.0	0.381
61407009	US06 - Start Stop Disabled		07/03/14	24			SM	0	Off	Closed	Down	8.00	20.8	0.385
61407014	WLTP		07/07/14	24	51.8	29.1	SM	0	Off	Closed	Down	14.43	23.7	0.609
61407015	NEDC		07/07/14	22	60.1	29.1	SM	0	Off	Closed	Down	6.84	24.4	0.281
61407016	NEDC- Start Stop Disabled		07/07/14	22	59.4	29.1	SM	0	Off	Closed	Down	6.89	22.9	0.301
61407017	NYCC, Ph 1- Start Stop Enabled		07/07/14	20	65.0	29.0	SM	0	Off	Closed	Down	1.19	12.2	0.097
61407017	NYCC, Ph 2- Start Stop Disabled		07/07/14	20	65.8	29.0	SM	0	Off	Closed	Down	1.19	10.7	0.112
61407020	Steady State Stairs- 0% grade		07/07/14	25	47.3	29.0	SM	0	Off	Closed	Down	6.21		
61407025	Passing maneuver 0%,3%, 6% grade		07/07/14	26	45.5	29.0	SM	0	Off	Closed	Down	9.10		
61407011	LA92		07/03/14	23	42.3	29.4	SM	0	Off	Closed	Down	9.81	20.6	0.476
61407012	LA92- Start Stop Disabled		07/03/14	23	43.3	29.4	SM	0	Off	Closed	Down	9.81	20.1	0.488
61407033	UDDS CS		07/09/14	35	40.5	29.2	SM	850	HVAC Max	Closed	Closed	7.49	16.9	0.444
61407034	UDDS HS #1		07/09/14	36	38.0	29.2	SM	850	HVAC Max	Closed	Closed	7.49	18.2	0.412
61407035	UDDS HS #2		07/09/14	36	39.2	29.2	SM	850	HVAC Max	Closed	Closed	7.48	18.4	0.407
61407038	HWY		07/09/14	38	32.0	29.2	SM	850	HVAC Max	Closed	Closed	10.27	30.4	0.338
61407039	US06		07/09/14	36			SM	850	HVAC Max	Closed	Closed	8.03	19.5	0.412
61407051	SC03		07/11/14	36	40.4	29.5	SM	850	HVAC Max	Closed	Closed	3.59	18.0	0.199

Summary notes
For the highway and US06, SC03, 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.
* Fuel Consumption & Economy results listed for test number 61407039 and 61407041 were captured from Fuel Scale
* Target Coefficients developed during AVTE coast down testing

Advanced Powertrain Research Facility Data referencing:
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