SEMA Emission Lab Test Report

for Exhaust Emission Test Procedures according

Date:	1/16/2020	**Time:**	16:46:31
Test Legislation:	EPA		
Test Cycle:	FTP75		
Test Purpose:	Certification		
Test Name:	FTP75		
Test Cell:	iGEMV_TC1		
Remark:	FTP Derive Baseline		

CONFIDENTIAL

Date: 1/14/20

Accept ____ Reject ____

Signature: ____

TestInformation

General Data

Test Number	*FTP75_20200116_09_TC1*		
Test Name	*FTP75*		
Test Cell	*iGEMV_TC1*		
Test Type	*FTP75*		
Legislation	*EPA*		
Requirements (Bag)	*CERTIFICATION*		
Date	*1/16/2020*	CH_4 Response Factor	
Test Start	*16:46:31*	Odometer Start[mile]	*78810*
Start Time Cycle	*2020-01-16 16|56-45-(000)*	Delay Time Method	*Default*
Test End	*18:00:55*		
Operator	*Art Herrera*	Air Condition	*YES*
Driver	*Rene Acosta*	Particle Measurement	OFF
Shifttable	Auto		
Flow Stream	*Bag Only Diesel*		
Calibrated Ranges	*autorange*		
Remark :	*FTP Derive Baseline*		

Vehicle Data

Test Group	*Derive F-250*	Transmission	*Automatic*
Manufacturer	*Ford*	Drive Axle Weight[lb]	*0*
Model	*F-250*	Tank Position	
Model Year	*2011*	Tank Material	*Plastic*
VIN	*1FT7W2BT9BEA15523*	Tank Volume[gal]	*26.00*
License Plate	*HJHU73*	Evaporative Family	*N/A*
Order Number		Canister Volume[l]	*0.00*
Engine Family	*BFMXD06.761A*	Canister Working Capacity[g]	*0*
Engine Trim Level	*trimEng*	Tire Manufacturer	*CONTINENTAL*
Engine Code	*codeEng*	Tire Model	*CONTITRAC TR*
Displacement [l]	*6.700*	Tire Size	*275/70/18*
Number of Cylinders	*6*	Tire Pressure [psi]	*65*

Dyno Data

Dyno Type	*SREV*	A [lbf]	*61.4690*
Inertia [lb]	*9500.00*	B [lbf/mph]	*0.14073*
Simulation Coefficient N	*2*	C [lbf/mph2]	*0.049012*

Fuel Data *2007 Certification Diesel HD0521GP10*

Fuel Type	*DIESEL*	Fuel Temperature [°C]	*15.56*
Fuel Analyze Date		Fuel Density [kg/l]	*0.8542*
Fuel Manufacturer		Net Heat. Val. [BTU/lb]	*18325*
Fuel Tank Number		Carb. Weight Frac.	*0.8670*
Fuel Charge		HC Ratio	*1.8282*
Remarks:	*2007 Certification Diesel HD0521GP10*	OC Ratio	*0.0000*

Weather Limit Data

Test Data	FTP75	Operator	Art Herrera	Speed Table		Date:	
Test Number	FTP75_20200116_09_TC1	Driver	Rene Acosta	Shift Table	Auto	Cold Start	

Vehicle		**Dyno**		**Fuel**		**Test Timing**	
VIN	*1FT7W2BT9BEA15523*	Inertia [lb]	*9500.00*	2007 Certification Diesel HD0521GP10		Start Time	*16:46:31*
		A [lbf]	*61.469*	Fuel type	DIESEL	End Time	*18:00:55*
Model	F-250	B [lbf/mph]	*0.14073*	Density	*0.8542*		
Model Year	*2011*	C [lbf/mph2]	*0.049012*	NHV	18325	Soak Time	580.0
Engine Family	BFMXD06.761A			CWF	*0.8670*		
Displacement [l]	*6.700*						
Transmission	*Automatic*						
Odometer Start [mile]	*78810*	Flow Stream	Bag Only Diesel				
Odometer End [mile]	*78821*	Remark	FTP Derive Baseline				

Bag Analysis

PHASE 1	THC [ppmC]	CO [ppm]	CO_2 [%]	NO_x [ppm]	CH_4 [ppm]	NMHC [ppm]				
Range	*200*	*250*	*2.000*	*30*	*60*		Temp. [°F]	72.98	Volume [scf]	7334
Zero Value	*0.00*	*0.2*	*0.0*	*0.0*	*0.0*		Press. [in-Hg]	29.20	D.F.	*18.91*
Span Value	*191.14*	*239.15*	*1.899*	*24.731*	*57.400*		RH [%]	*39.60*	Ph. Start [s]	0.0
Sample	*6.09*	*27.47*	*0.742*	*4.166*	*1.035*	*4.920*	AH [g/kg]	*6.963*	Ph. End [s]	505.7
Mass.	*0.732*	*6.662*	*2826.914*	*1.478*	*0.144*	*0.591*	Dist. [mi]	*3.58*	Ph. Length [s]	505.7
Mass per Dist.	*0.2044*	*1.8614*	*789.841*	*0.4130*	*0.0402*	*0.1652*	NO_x Corr. F	*0.89*	Bag An. Del	*476*
							Dr. Viola.	*0*	Vio. Durat. [s]	0.0
							Crank [s]	*0.7*	FE [mile/gal]	12.8

SPC Mass Particles [g] 0.0004 SPC Mass per Dist. [g/mile] 0.0001

PHASE 2	THC [ppmC1]	CO [ppm]	CO_2 [%]	NO_x [ppm]	CH_4 [ppm]	NMHC [ppm]				
Range	*200*	*250*	*2.000*	*30*	*60*		Temp. [°F]	73.51	Volume [scf]	11660
Zero Value	*0.00*	*0.3*	*0.0*	*0.0*	*0.0*		Press. [in-Hg]	29.20	D.F.	*28.37*
Span Value	*191.14*	*238.80*	*1.902*	*24.719*	*57.400*		RH [%]	*37.65*	Ph. Start [s]	505.7
Sample	*0.38*	*-0.17*	*0.459*	*0.765*	*0.320*	*0.021*	AH [g/kg]	*6.736*	Ph. End [s]	1378.3
Mass.	*0.073*	*0.000*	*2784.267*	*0.429*	*0.071*	*0.004*	Dist. [mi]	*3.84*	Ph. Length [s]	872.5
Mass per Dist.	*0.0191*	*0.0000*	*725.879*	*0.1118*	*0.0184*	*0.0010*	NO_x Corr. F	*0.88*	Bag An. Del	*479*
							Dr. Viola.	*0*	Vio. Durat. [s]	0.0
									FE [mile/gal]	14.0

SPC Mass Particles [g] 0.0045 SPC Mass per Dist. [g/mile] 0.0012

PHASE 3	THC [ppmC1]	CO [ppm]	CO_2 [%]	NO_x [ppm]	CH_4 [ppm]	NMHC [ppm]				
Range	*200*	*250*	*2.000*	*30*	*60*		Temp. [°F]	74.09	Volume [scf]	6756
Zero Value	*0*	*-0.1*	*0.0*	*0.0*	*0.0*		Press. [in-Hg]	29.22	D.F.	*19.05*
Span Value	*191.14*	*238.89*	*1.902*	*24.663*	*57.400*		RH [%]	*37.55*	Ph. Start [s]	1514.9
Sample	*0.68*	*0.70*	*0.654*	*1.483*	*0.292*	*0.355*	AH [g/kg]	*6.849*	Ph. End [s]	2020.4
Mass.	*0.076*	*0.156*	*2298.390*	*0.483*	*0.037*	*0.039*	Dist. [mi]	*3.57*	Ph. Length [s]	505.5
Mass per Dist.	*0.0213*	*0.0438*	*644.521*	*0.1355*	*0.0105*	*0.0110*	NO_x Corr. F	*0.89*	Bag An. Del	*505*
							Dr. Viola.	*0*	Vio. Durat. [s]	0.0
							Crank [s]	*0.0*	FE [mile/gal]	15.8

SPC Mass Particles [g] 0.0028 SPC Mass per Dist. [g/mile] 0.0008

SPC Mass Particles [g] SPC Mass per Dist. [g/mile]

Total Result (weighted)

Weighted	THC [g/mile]	CO [g/mile]	CO_2 [g/mile]	NO_x [g/mile]	CH_4 [g/mile]	NMOG [g/mile]	NMHC [g/mile]	NMHC+NO_x [g/mile]	HCHO [g/mile]	*Fuel Economy*	
Mass per Dist.	0.0581	*0.3984*	*716.81*	*0.1808*	*0.0208*	*0.0416*	*0.0378*	0.219	*0.0008*	mile/gal	*14.18*
Mass per Dist. - Particulate SPC	0.0008										

Total Result

actual	THC [g/mile]	CO [g/mile]	CO2 [g/mile]	NOX [g/mile]	CH4 [g/mile]	NMOG [g/mile]	NMHC [g/mile]	NMHC+NO_x [g/mile]	*Fuel Economy*	
Mass per Dist.	0.0802	*0.6209*	*720.31*	*0.2177*	*0.0229*	*0.0636*	*0.0578*	0.275	mile/gal	*14.10*
Mass per Dist. (rounded)	0.0802	*0.6209*	*720.3*	*0.2177*	*0.0229*	*0.064*	*0.0578*	0.275	Dist. [mi]	*10.98*
Mass per Dist. - Parti SPC [mg/mile]	0.6901									

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Date: 4/14/20

Accept ✓ Reject

Signature:

CVS Data		Cycle data		Environmental Data	
Dilution Factor (Bag)	*16.91*	Vio. Dur.[s]	0.0	Rel. Hum.[%]	*39.60*
Dilution Factor (Modal)		Number	0	Ab. Hum.[g/lbs]	*6.96*
CVS Volume[scf]	*7333.89*	Act. Dist.[mi]	*3.58*	Pressure[inHg]	*29.20*
CVS Flow[scfm]	*870.24*			Temp.[°F]	*72.98*
CVS Inlet Pressure	*28.66*			Temp. Min.[°F]	*71.60*
CVS Inlet Temp.[°F]	*109.05*			Temp. Max.[°F]	*73.94*
CVS Inlet Temp. Min.[°F]	*106.19*			NO_X Corr. F	*0.89*
CVS Inlet Temp. Max.[°F]	*118.16*				

Particulate

SPC Particulate Results			Avg	Max	Min
Primary Filter Particle Mass [ug]	0.875	Temp Air Particlulate Dil [deg F]	91.6468		
Mass Particles [g]	0.00	Temp Gas Particulate [deg F]	112.0386	114.8786	109.1968
Massflow Particles [g/h]	1785315.50	Pressure Gas Particulate	0.3112	0.9887	0.0000
Mass per Dist. [g/mile]	0.0001	Dilution Ratio	1.0000		
Particulate Sampling Time [s]	505.70	Pressure Drop Pri Filter [mbar]	0.3839		
Primary Filter ID	A1				
Filter Diameter [mm]	47				

Bag

Concentrations	THC[ppmC]	CO[ppm]	CO_2[%]	NO_X[ppm]	CH_4[ppm]	NMHC[ppm]
Range	*200*	*250*	*2.000*	*30*	*60*	
Sniff	*0.000*	*28.470*	*0.790*	*4.793*	*3.401*	
Zero Value	*-0.003*	*0.172*	*-0.001*	*-0.002*	*0.000*	
Zero Offset[%]	*0.070*	*0.005*	*0.000*	*0.002*	*-0.010*	
Span Value	*191.139*	*239.150*	*1.899*	*24.731*	*57.400*	
Span Offset[%]	*0.006*	*-0.006*	*-0.032*	*-0.098*	*-0.527*	
Sample	*9.534*	*27.736*	*0.789*	*4.495*	*2.883*	*6.276*
Std. Dev.	*0.000*	*0.003*	*0.006*	*0.048*	*0.000*	
Ambient	*3.661*	*0.278*	*0.050*	*0.350*	*1.964*	
Std. Dev.	*0.004*	*0.004*	*0.001*	*0.011*	*0.000*	
Corrected	*6.090*	*27.474*	*0.742*	*4.166*	*1.035*	*4.920*
Mass	**THC[g]**	**CO[g]**	**CO_2[g]**	**NO_X[g]**	**CH_4[g]**	**NMHC[g]**
Uncorrected	*0.7317*	6.6623	2826.914	1.4781	0.1439	0.5912
Corrected	*0.7317*	6.6623	2826.914	1.4781	0.1439	0.5912
Mass per distance	**THC[g/mile]**	**CO[g/mile]**	**CO_2[g/mile]**	**NO_X[g/mile]**	**CH_4[g/mile]**	**NMHC[g/mile]**
Corrected for Lost Sample Mass	*0.2044*	*1.8614*	*789.841*	*0.4130*	*0.0402*	*0.1652*

Fuel Consumption

Fuel Consumption[g]	*902.307*	Fuel Consumption[l/100km]	*18.340*
Fuel Consumption[l]	*1.056*	**Fuel Economy[mile/gal]**	*12.825*

CVS Data		Cycle data		Environmental Data	
Dilution Factor (Bag)	26.37	Vio. Dur.[s]	0.0	Rel. Hum.[%]	37.65
Dilution Factor (Modal)		Number	0	Ab. Hum.[g/lbs]	6.74
CVS Volume[scf]	11660.08	Act. Dist.[mi]	3.84	Pressure[inHg]	29.20
CVS Flow[scfm]	801.92			Temp.[°F]	73.51
CVS Inlet Pressure	28.72			Temp. Min.[°F]	71.60
CVS Inlet Temp.[°F]	112.71			Temp. Max.[°F]	75.38
CVS Inlet Temp. Min.[°F]	108.52			NO_X Corr. F	0.88
CVS Inlet Temp. Max.[°F]	120.03				

Particulate

SPC Particulate Results			Avg	Max	Min
Primary Filter Particle Mass [ug]	10.78125	Temp Air Particlulate Dil [deg F]	90.8947		
Mass Particles [g]	0.00	Temp Gas Particulate [deg F]	112.5885	113.0999	112.1668
Massflow Particles [g/h]	1782939.25	Pressure Gas Particulate	0.0474	0.4269	0.0000
Mass per Dist. [g/mile]	0.0012	Dilution Ratio	1.0000		
Particulate Sampling Time [s]	0.90	Pressure Drop Pri Filter [mbar]	0.2754		
Primary Filter ID					
Filter Diameter [mm]					

Bag

Concentrations	THC[ppmC]	CO[ppm]	CO_2[%]	NO_X[ppm]	CH_4[ppm]	NMHC[ppm]
Range	200	250	2.000	30	60	
Sniff	0.000	0.890	0.509	1.108	28.314	
Zero Value	-0.003	0.263	0.000	0.001	0.000	
Zero Offset[%]	0.070	0.020	-0.001	0.011	0.002	
Span Value	191.139	238.801	1.902	24.719	57.400	
Span Offset[%]	0.006	-0.029	-0.026	-0.050	-0.563	
Sample	3.921	0.116	0.508	1.035	2.204	1.431
Std. Dev.	0.000	0.004	0.003	0.023	0.000	
Ambient	3.678	0.298	0.050	0.281	1.958	
Std. Dev.	0.003	0.006	0.001	0.015	0.000	
Corrected	0.383	-0.171	0.459	0.765	0.320	0.021
Mass	**THC[g]**	**CO[g]**	**CO_2[g]**	**NO_X[g]**	**CH_4[g]**	**NMHC[g]**
Uncorrected	0.0731	0.0000	2784.267	0.4287	0.0708	0.0040
Corrected	0.7317	0.0000	2784.267	0.4287	0.0708	0.0040
Mass per distance	**THC[g/mile]**	**CO[g/mile]**	**CO_2[g/mile]**	**NO_X[g/mile]**	**CH_4[g/mile]**	**NMHC[g/mile]**
Corrected for Lost Sample Mass	0.0191	0.0000	725.879	0.1118	0.0184	0.0010

Fuel Consumption

Fuel Consumption[g]	884.766	Fuel Consumption[l/100km]	16.780
Fuel Consumption[l]	1.036	**Fuel Economy[mile/gal]**	14.017

CVS Data		Cycle data		Environmental Data	
Dilution Factor (Bag)	19.05	Vio. Dur.[s]	0.0	Rel. Hum.[%]	37.55
Dilution Factor (Modal)		Number	0	Ab. Hum.[g/lbs]	6.85
CVS Volume[scf]	6756.48	Act. Dist.[mi]	3.57	Pressure[inHg]	29.22
CVS Flow[scfm]	802.04			Temp.[°F]	74.09
CVS Inlet Pressure	28.74			Temp. Min.[°F]	71.96
CVS Inlet Temp.[°F]	113.08			Temp. Max.[°F]	75.92
CVS Inlet Temp. Min.[°F]	108.68			NO_X Corr. F	0.89
CVS Inlet Temp. Max.[°F]	123.30				

Particulate

SPC Particulate Results			Avg	Max	Min
Primary Filter Particle Mass [ug]	7.203125	Temp Air Particlulate Dil [deg F]	90.0897		
Mass Particles [g]	0.00	Temp Gas Particulate [deg F]	113.2976	120.0861	111.7621
Massflow Particles [g/h]	1645769.50	Pressure Gas Particulate	0.2294	0.4735	0.0000
Mass per Dist. [g/mile]	0.0008	Dilution Ratio	1.0000		
Particulate Sampling Time [s]	505.50	Pressure Drop Pri Filter [mbar]	0.3528		
Primary Filter ID					
Filter Diameter [mm]					

Bag

Concentrations	THC[ppmC]	CO[ppm]	CO_2[%]	NO_X[ppm]	CH_4[ppm]	NMHC[ppm]
Range	200	250	2.000	30	60	
Sniff	0.000	1.736	0.706	1.777	2.772	
Zero Value	-0.003	-0.134	0.000	-0.002	0.000	
Zero Offset[%]	0.070	0.019	-0.002	0.000	0.013	
Span Value	191.139	238.894	1.902	24.663	57.400	
Span Offset[%]	0.006	-0.019	-0.035	-0.217	-0.540	
Sample	4.718	0.975	0.703	1.710	2.150	2.289
Std. Dev.	0.000	0.007	0.004	0.024	0.000	
Ambient	4.257	0.292	0.051	0.239	1.961	
Std. Dev.	0.005	0.004	0.001	0.016	0.000	
Corrected	0.685	0.698	0.654	1.483	0.292	0.355
Mass	**THC[g]**	**CO[g]**	**CO_2[g]**	**NO_X[g]**	**CH_4[g]**	**NMHC[g]**
Uncorrected	0.0759	0.1561	2298.390	0.4832	0.0374	0.0393
Corrected	0.0759	0.1561	2298.390	0.4832	0.0374	0.0393
Mass per distance	**THC[g/mile]**	**CO[g/mile]**	**CO_2[g/mile]**	**NO_X[g/mile]**	**CH_4[g/mile]**	**NMHC[g/mile]**
Corrected for Lost Sample Mass	0.0213	0.0438	644.521	0.1355	0.0105	0.0110

Fuel Consumption

Fuel Consumption[g]	730.461	Fuel Consumption[l/100km]	14.901
Fuel Consumption[l]	0.855	**Fuel Economy[mile/gal]**	15.784

Test Data: FTP75 Operator: Art Herrera Date: 1/16/2020
Test Number: FTP75_20200116_09_TC1 Driver: Rene Acosta

Driver Violations		Phase 1	Phase 2	Phase 3
Number of Violations	-	0	0	0
Duration of Violations	(s)	0.0	0.0	0.0

Number	Phase	Violation Begin (s)	Violation End (s)	Violation Duration (s)	Scheduled Speed (mph)	Max Speed Deviation (mph)
No Violations In This Test				0.0		

Test Record #: FTP75_20200116_09_TC1

Phase 1

Analyzer Adjust

	Range Number	Range	Zero Value	Zero Set Value	Zero Offset	Span Value	Span Set Value	Span Offset	ReZero Value
		ppm	ppm	ppm	%	ppm	ppm	%	ppm
CO_2	1	20000	-7.55	0.00	-0.04	18994.60	19010.00	-0.08	-0.10
CO	1	250	0.17	0.00	0.07	239.15	239.00	0.06	-0.09
NO_X	1	30	0.00	0.00	-0.01	24.73	24.70	0.10	0.00
THC (ppmC	2	200	0.00	0.00	0.00	191.14	191.10	0.02	0.24
CH_4	1	60	0.00	0.00	0.00	57.40	57.40	0.00	0.12
N2O				0.00					

Analyzer Check

	Range Number	Range	Zero Value	Zero Set Value	Zero Drift	Span Value	Span Set Value	Span Drift	2% Drift Validation
		ppm	ppm	ppm	%	ppm	ppm	%	
CO_2	1	20000	0.02	0.00	0.00	19003.54	19010.00	0.04	
CO	1	250	0.01	0.00	0.04	238.98	239.00	-0.07	
NO_X	1	30	0.00	0.00	0.01	24.67	24.70	-0.20	
THC (ppmC	2	200	0.14	0.00	-0.05	191.11	191.10	-0.01	
CH_4	1	60	-0.01	0.00	-0.22	57.08	57.40	-0.53	
N2O				0.00					

Phase 2

Analyzer Adjust

	Range Number	Range	Zero Value	Zero Set Value	Zero Offset	Span Value	Span Set Value	Span Offset	ReZero Value
		ppm	ppm	ppm	%	ppm	ppm	%	ppm
CO_2	1	20000	-2.91	0.00	-0.01	19020.30	19010.00	0.05	-0.37
CO	1	250	0.26	0.00	0.11	238.80	239.00	-0.08	-0.04
NO_X	1	30	0.00	0.00	0.00	24.72	24.70	0.06	0.00
THC (ppmC	2	200	0.00	0.00	0.00	191.14	191.10	0.02	0.24
CH_4	1	60	0.00	0.00	0.00	57.40	57.40	0.00	0.14
N2O				0.00					

Analyzer Check

	Range Number	Range	Zero Value	Zero Set Value	Zero Drift	Span Value	Span Set Value	Span Drift	2% Drift Validation
		ppm	ppm	ppm	%	ppm	ppm	%	
CO_2	1	20000	-0.16	0.00	0.00	19004.79	19010.00	-0.08	
CO	1	250	0.05	0.00	0.04	238.93	239.00	0.05	
NO_X	1	30	0.00	0.00	0.00	24.68	24.70	-0.11	
THC (ppmC	2	200	0.14	0.00	-0.05	191.11	191.10	-0.01	
CH_4	1	60	0.00	0.00	-0.22	57.06	57.40	-0.56	
N2O				0.00					

Phase 3

Analyzer Adjust

	Range Number	Range	Zero Value	Zero Set Value	Zero Offset	Span Value	Span Set Value	Span Offset	ReZero Value
		ppm	ppm	ppm	%	ppm	ppm	%	ppm
CO_2	1	20000	2.59	0.00	0.01	19015.40	19010.00	0.03	-0.56
CO	1	250	-0.13	0.00	-0.05	238.89	239.00	-0.04	-0.06
NO_X	1	30	0.00	0.00	-0.01	24.66	24.70	-0.12	0.00
THC (ppmC	2	200	0.00	0.00	0.00	191.14	191.10	0.02	0.24
CH_4	1	60	0.00	0.00	0.00	57.40	57.40	0.00	0.15
N2O				0.00					

Analyzer Check

	Range Number	Range	Zero Value	Zero Set Value	Zero Drift	Span Value	Span Set Value	Span Drift	2% Drift Validation
		ppm	ppm	ppm	%	ppm	ppm	%	
CO_2	1	20000	-0.34	0.00	0.00	19003.01	19010.00	-0.06	
CO	1	250	0.05	0.00	0.04	238.95	239.00	0.02	
NO_X	1	30	0.00	0.00	0.00	24.64	24.70	-0.09	
THC (ppmC	2	200	0.14	0.00	-0.05	191.11	191.10	-0.01	
CH_4	1	60	0.01	0.00	-0.23	57.08	57.40	-0.54	
N2O				0.00					

Emission Lab Test Report

Drive Cycle Energy Summary

Test Record #: FTP75_20200116_09_TC1

Test Cycle FTP75
Test Legislation EPA

Vehicle ID 1FT7W2BT9BEA15523

DYNO Data

	Road Load	Street Load
Inertia [lb]	*9500.00*	
A [lbf]	*61.469*	*80.650*
B [lbf/mph]	*0.14073*	*1.58910*
C [lbf/mph2]	*0.049012*	*0.038900*

	Phase1	Phase2	Phase3	Weighted
Distance				
Target	5779.17	6210.97	5779.17	
Driven	5759.62	6173.54	5739.52	
Distance Rating (%)	-0.3384	-0.6026	-0.6861	
Cycle Energy (MJ)				
Target	8.07	7.35	8.07	
Driven	8.04	7.30	7.98	
Distance per Energy Cycle (m/MJ)				
Target	715.90	845.04	715.92	777.45
Driven	716.34	845.36	719.09	778.70
Road Load Work Fraction				
Target	0.4674	0.3467	0.4674	
Driven	0.4866	0.3435	0.4779	
Inertial Work (MJ)				
Target	4.30	4.80	4.30	9.10
Driven	4.13	4.79	4.17	8.94
Inertial Work Fraction				
Target	0.5326	0.6533	0.5326	
Driven	0.5134	0.6565	0.5221	
Inertial Work Rating	-3.9851	-0.1576	-3.0719	-1.7198
Absolute Speed Change (m/s2)				
Target	204.82	340.97	204.85	545.81
Driven	199.48	341.82	201.15	542.25
Absolute Speed Change Rating (%)	-2.6079	0.2479	-1.8036	-0.6518
Energy Rating	-0.0615	-0.0379	-0.4439	
Energy Economy Rating	-0.0615	-0.0379	-0.4439	-0.1612