



LOTUS ENGINEERING INC.  
VEHICLE EMISSIONS LAB  
DATA SHEET

DATE: 02/22/07 TEST FUEL: E-85  
 TEST NO: 07022205 \* 2206 SUPPLIER: Haltermann  
 VEHICLE NO: 6803 NET HTG VAL:  
 VEHICLE MAKE: Ford SPEC GRAV:  
 VEHICLE MODEL: F-350 CARBON FRAC:  
 TRANSMISSION: FUEL RVP:  
 ENGINE: BATCH NO:  
 START ODO: 5628 DRUM LOT:  
 END ODO: 5670 OPERATOR: Steve  
 INERTIA WEIGHT: 7798 OBSERVER: Steve  
 DYNO COEF: A=41.46 B=-.0721 C=04582 DRIVER: Brian

	MASS BAG RESULTS			
	COLD TRANSIENT	COLD STABILIZED	HOT TRANSIENT	HYFE
CH4 SAMPLE (ppm):	4.27	2.44	2.58	2.7
CH4 AMBIENT (ppm):	2.43	2.39	2.32	2.64
THC SAMPLE (ppm):	14.37	5.18	5.06	5.08
THC AMBIENT (ppm):	5.59	5.52	5.37	5.94
CO SAMPLE (ppm):	65.72	8.22	18.82	11.01
CO AMBIENT (ppm):	2.21	2.36	2.18	2.30
NOx SAMPLE (ppm):	3.08	0.50	1.30	1.75
NOx AMBIENT (ppm):	0.29	0.32	0.21	0.29
CO2 SAMPLE (%):	0.964	0.608	0.805	1.162
CO2 AMBIENT (%):	0.075	0.081	0.067	0.066
BARO (in Hg):	28.98	28.98	28.98	29.04
REL HUMIDITY (%):	35.5	32.7	30.8	22.9
DRY BULB (F):	76.6	79.4	79.8	84.0
PHASE DIST (mi):	3.58	3.85	3.58	10.26
CVS VOLUME (scf):	6092.2	10167.5	6012.8	8637.7
COAST DOWN Q C (sec):				

TEST NUMBER: 07022205 \* 22 TEST RESULTS

	CYCLE 1				CYCLE 2				CYCLE 3				HWFE			
	COLD TRANSIENT	COLD STABILIZED	HOT TRANSIENT	HYFE												
DILUTION FACTOR:	13.793	21.998	16.591	11.515												
% REL HUMIDITY:	35.500	32.700	30.800	22.900												
HUM CORR FACTOR:	0.894	0.896	0.888	0.862												
PHASE MASS:																
THC (g):	0.914	0.000	0.002	0.000												
NMHC (g):	0.714	0.000	0.000	0.000												
CO (g):	12.788	1.998	3.325	2.535												
NOx (g):	0.830	0.098	0.319	0.600												
CO2 (g):	2820	2795	2313	4933												
PHASE MASS PER MILE:																
THC (g/mi):	0.255	0.000	0.000	0.000												
NMHC (g/mi):	0.199	0.000	0.000	0.000												
CO (g/mi):	3.572	0.519	0.929	0.247												
NOx (g/mi):	0.232	0.025	0.089	0.058												
CO2 (g/mi):	788.000	726.000	646.000	481.000												
SAE FUEL ECON:	12.800	14.000	15.700	21.100												
WEIGHTED PHASE MASS PER MILE:																
THC (g/mi):	0.053	0.000	0.000													
NMHC (g/mi):	0.041	0.000	0.000													
CO (g/mi):	0.740	0.269	0.255													
NOx (g/mi):	0.048	0.013	0.024													
CO2 (g/mi):	163.000	376.000	177.000													

EPA REPORTED FINAL WEIGHTED RESULTS FOR TEST

EPA 75  
 HC (g/mi): **0.053**  
 NMHC (g/mi): **0.041**

CYCLE 1				CYCLE 2				CYCLE 3				HWFE			
				in Hg/Pa 0.000				in Hg/Pa 0.000				in Hg/Pa 0.000			
				inHg/mmHg 0.039				inHg/mmHg 0.039				inHg/mmHg 0.039			
				mmHg/Pa 0.008				mmHg/Pa 0.008				mmHg/Pa 0.008			
				T db 297.928				T db 299.483				T db 299.706			
				K 0.622				K 0.622				K 0.622			
				Pa in Hg mm Hg				Pa in Hg mm Hg				Pa in Hg mm Hg			
				Pdb 3126.881 0.926 23.521				Pdb 3429.37 1.02 25.80				Pdb 3474.60 1.03 26.14			
				RH (%) 35.500 35.500 35.500				RH (%) 32.70 32.70 32.70				RH (%) 30.80 30.80 30.80			
				BARO 28.980 736.123				BARO 28.98 736.12				BARO 28.98 736.12			
				H(grains) 49.883				H(grains) 50.40				H(grains) 48.07			
				Kh 0.894				Kh 0.90				Kh 0.89			