

# Data: California Environmental Engineering Dyno Test

REMARKS	START TIME	END TIME	FINAL ODO.						
	14:47:43	15:29:05	6425.8						
# EVENT	MILES	KM	TIME	TIME trace	HOLD	TIME trace	ERROR	GrCtr1	
1 Ready	0.000	0.000	-0.2	0.0	for	0.0	for	0.0	2049
2 Delay-10	0.000	0.000	-10.0	0.0	for	0.0	for	0.0	2049
3 Ready	0.000	0.000	0.4	0.0	for	0.0	for	0.0	2329
4 CRANK	0.000	0.000	2.0	0.0	for	0.0	for	0.0	2843
5 phase 1	3.642	5.854	505.0	0.0	for	0.0	for	0.0	29219
6 phase 2	3.896	6.261	864.0	0.0	for	0.0	for	0.0	3875
7 eng off	0.000	0.000	-12.6	0.0	for	0.0	for	0.0	3883
8 phase 2	0.000	0.000	5.0	0.0	for	0.0	for	0.0	3875
9 soak+bl	0.000	0.000	-15.0	0.0	for	0.0	for	0.0	775
10 soak	0.012	0.020	525.0	0.0	for	0.0	for	0.0	3
11 ready	0.000	0.000	-20.2	0.0	for	0.0	for	0.0	3
12 crank 3	0.000	0.000	1.3	0.0	for	0.0	for	0.0	2883
13 phase 3	3.613	5.807	505.0	0.0	for	0.0	for	0.0	2883
14 delay15	-0.000	-0.000	15.0	0.0	for	0.0	for	0.0	3
15 bags	0.000	0.000	1.0	0.0	for	0.0	for	0.0	7
TEST COMPLETED 2469.1 SECONDS DVT= 0.3									
PHASE 1	THC	CO	NOx	CO2	CH4	Tdry=	78.8	Tdp =	37.3
SAMPLE	4.55	4.3	12.1	1.005	1.76	BARO.=	754.70	SEC =	507.4
MODAL	4.55	5.0	12.0	0.984	1.69	TQavg=	-0.20	A-H =	32.8
AMBIENT	2.50	1.6	1.6	0.041	1.16	NoxKT=	0.835	VOLC=	4667.9
GRAMS	0.170	0.434	2.242	2340.62	0.159	M.P.G.	16.09	DF =	13.322
GMS/MI	0.047	0.119	0.616	642.68	0.044	MPGnhv	13.16	MI =	3.642
G/Mwgt	0.010	0.025	0.128	133.53	0.009	R-H =	22.40	KM =	5.854
PHASE 2	THC	CO	NOx	CO2	CH4	Tdry=	78.8	Tdp =	37.4
SAMPLE	4.43	1.4	0.6	0.629	1.86	BARO.=	754.70	SEC =	881.6
MODAL	4.43	2.9	0.7	0.617	1.91	TQavg=	-0.20	A-H =	33.0
AMBIENT	1.80	0.9	0.3	0.042	1.85	NoxKT=	0.835	VOLC=	8010.2
GRAMS	0.354	0.143	0.114	2446.18	0.353	M.P.G.	16.47	DF =	21.284
GMS/MI	0.091	0.037	0.029	627.87	0.091	MPGnhv	13.48	MI =	3.896
G/Mwgt	0.045	0.018	0.015	313.93	0.045	R-H =	22.50	KM =	6.262
PHASE 3	THC	CO	NOx	CO2	CH4	Tdry=	78.9	Tdp =	37.3
SAMPLE	2.41	2.4	2.9	0.878	1.40	BARO.=	754.70	SEC =	506.3
MODAL	2.41	1.7	2.6	0.861	1.48	TQavg=	-0.20	A-H =	32.8
AMBIENT	2.40	1.5	0.1	0.045	1.25	NoxKT=	0.835	VOLC=	4586.2
GRAMS	0.012	0.151	0.582	1987.84	0.011	M.P.G.	18.80	DF =	15.254
GMS/MI	0.003	0.042	0.161	550.19	0.003	MPGnhv	15.38	MI =	3.613
G/Mwgt	0.001	0.011	0.044	150.90	0.001	R-H =	22.40	KM =	5.807
*****									
WEIGHTED	THC	CO	NOx	CO2	CH4	FUEL ECONOMY			
GRAMS/MI	0.058	0.055	0.187	609.64	0.057	M.P.G.	16.96	NHvmpg	13.880
GRAMS/KM	0.036	0.034	0.116	379.29	0.034	L/100k	13.87	NHvkpl	5.902

Factor	Without Eco	w/ EPEC or Eco	%Δ
Totally Hydrocarbons (THCs) g/mi	0.047	0.003	-93.6%
Nitrous Oxide (NOx) g/mi	0.616	0.161	-73.9%
Carbon Monoxide (CO) g/mi	0.119	0.042	-64.7%
Methane (CH4) g/mi	0.044	0.003	-93.2%
<b>Average Fuel Consumption</b>	16.1 mpg	18.8 mpg	<b>16.8%</b>