

**Ecologic Engine Testing Laboratories**  
**1370 S. Acacia Ave. Fullerton California**

TEST NUMBER	V5010613	DATE	01-24-2011	RANGE	AUTO
VEHICLE REF	DON OWENS1254	A.C.	YES	FUEL TYPE	Diesel
V.I.N.	1FTJW35F8VEC71254	PROD. DATE	10/97	DENSITY	20.2
ENGINE FAM.	VFM7.3W8D1AK	ENGINEER	D.OGDEN	SPECIF. CO2	13.4
EVAP FAMILY	N/A	OPER/DRVR	A.HERRERA	Gr.Cjgal.	2824
MAKE	FORD	TEST TYPE	HFET_D .HWC	FUEL Fract.	.872
MODEL	F-350 POWERSTROKE	SHIFT FILE	AUTO .H_C	SP. GRAVITY	.9328
YEAR	1998	INERTIA WGT	6875	N.H.V.	16600
TANK CAP	N/A	ACTUAL HP	12	WT FACTOR	1
ODOMETER	65390	INDIC. HP	9	WT FACTOR	0
TRANS.	AUTO	HP Spd/Sec	ARB 2/1	WT FACTOR	0
REMARKS	BASELINE				
REMARKS	STEADY STATE AT 65 MPH				
REMARKS					
START TIME	08:24:22	END TIME	08:37:07	FINAL ODO.	65404.0

#	EVENT	MILES	Km	TIME	TIME trace	HOLD	TIME trace	ERROR	GrCtrl
1	ph 1	13.993	22.491	765.0	0.0 for	0.0	0.1 for	765.0	787
2	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	535
3	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
4	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
5	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
6	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
7	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
8	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
9	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
10	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
11	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
12	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
13	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
14	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
15	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
TEST COMPLETED		765 .1 SECONDS	DVT = 765.0	A = 65.097	B = 0.0157	HP@50 = 0.0			

PHASE 1	THC	CO	NOx	CO2	Tdry =	78.1	Tdp =	-1.2
SAMPLE	35.0	37.3	71.0	1.584	BARO. =	29.90	SEC =	765.0
AMBIENT	6.6	2.3	0.2	0.051	NoxKf =	0.806	VOLc =	8900.7
GRAMS	5.247	10.351	27.518	7102.76	M.P.G.	20.28	DF =	8.421
GMS/MI	0.375	0.740	1.967	507.59	MPGnhv	20.53	MI =	13.993
G/Mwgt	0.375	0.740	1.967	507.59	R-H =	16.80	KM =	22.491

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WEIGHTED	THC	CO	NOx	CO2	FUEL ECONOMY			
GRAMS/MI	0.375	0.740	1.967	507.59	M.P.G.	20.28	NHVmpg	20.527
GRAMS/KM	0.233	0.460	1.224	315.80	L/100k	11.59	NHVkpl	8.728

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Q.C. TIMES	0.0	0.0	9.2	AVG.	3.1		
PARTIC. VOLp	1 =	9.563	C.F.			PARTIC. WT, MG	0.29
MAXIMUM CFV RATIO =		0.851	RATIO LIMIT =		0.880		

**Ecologic Engine Testing Laboratories**  
**1370 S. Acacia Ave. Fullerton California**

TEST NUMBER	V5010655	DATE	01-26-2011	RANGE	AUTO
VEHICLE REF	DON OWENS1254	A.C.	YES	FUEL TYPE	Diesel
V.I.N.	1FTJW35F8VEC71254	PROD. DATE	10/97	DENSITY	20.2
ENGINE FAM.	VFM7.3W8D1AK	ENGINEER	D.OGDEN	SPECIF. CO2	13.4
EVAP FAMILY	N/A	OPER/DRVR	A.HERREA	Gr.Cjgal.	2824
MAKE	FORD	TEST TYPE	HFET_D .HWC	FUEL Fract.	.872
MODEL	F-350 POWERS	SHIFT FILE	AUTO .H_C	SP. GRAVITY	.9328
YEAR	1998	INERTIA WGT	6875	N.H.V.	16600
TANK CAP	N/A	ACTUAL HP	12	WT FACTOR	1
ODOMETER	65595	INDIC. HP	9	WT FACTOR	0
TRANS.	AUTO	HP Spd/Sec	ARB 2/1	WT FACTOR	0
REMARKS	WITH 2 DEVICES AND 02 ON				
REMARKS	STEADY STATE @ 65 MPH				
REMARKS					
START TIME	08:50:56	END TIME	09:03:41	FINAL ODO.	65608.9

#	EVENT	MILES	Km	TIME	TIME trace	HOLD	TIME trace	ERROR	GrCtrl
1	ph 1	13.927	22.385	765.0	0.0 for	0.0	0.1 for	765.0	787
2	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	535
3	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
4	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
5	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
6	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
7	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
8	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
9	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
10	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
11	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
12	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
13	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
14	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
15	end	0.000	0.000	0.0	0.0 for	0.0	0.0 for	0.0	0
TEST COMPLETED		765 .1 SECONDS	DVT = 765.0	A = 65.5306	B = 0.0020	HP@50 = 0.0			

PHASE 1	THC	CO	NOx	CO2	Tdry =	76.0	Tdp =	2.2
SAMPLE	25.3	36.1	72.0	1.547	BARO. =	30.10	SEC =	765.0
AMBIENT	4.3	1.8	0.1	0.046	NoxKf =	0.828	VOLc =	8942.0
GRAMS	3.880	10.174	28.837	6984.00	M.P.G.	20.54	DF =	8.628
GMS/MI	0.279	0.731	2.071	501.47	MPGnhv	20.78	MI =	13.927
G/Mwgt	0.279	0.731	2.071	501.47	R-H =	23.30	KM =	22.385

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WEIGHTED	THC	CO	NOx	CO2	FUEL ECONOMY			
GRAMS/MI	0.279	0.731	2.071	501.47	M.P.G.	20.54	NHVmpg	20.777
GRAMS/KM	0.173	0.454	1.288	312.00	L/100k	11.45	NHVkpl	8.834

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Q.C. TIMES	0.0	9.4	9.5	AVG.	6.3	
PARTIC. VOLp	1 =	9.563	C.F.			PARTIC. WT, MG = 0.15
MAXIMUM CFV RATIO =		0.854	RATIO LIMIT =		0.880	