

J.K. TECHNOLOGIES, L.L.C.

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DATE: 10/6/08

ATTENTION: Ray G.

COMPANY: Fire Freeze

FAX NUMBER: 973-394-1497

FROM: Jonathan Weisheit

WE ARE TRANSMITTING 5 PAGE(S) INCLUDING THIS COVER SHEET

REF: Testing

MESSAGE:

Dear Ray,

Please note the differences between the results with and without the product, they are huge. Reductions in all emissions with the greatest seen in NOX.

Regards,

JW

IF YOU DO NOT RECEIVE ALL OF THE PAGES PLEASE CALL THE ABOVE TELEPHONE OR FAX NUMBER.

Emission Test Protocol

Test Specific Data		&HFET1 > &GASOLINE > &Bag		Test Number: 20081003-JK-TC1-03
Driver:	Jonathan Weisheit	Date:	10-03-08	
Speedtable:	HFET1	Purpose:		
Shifttable:	auto	Software:		
ASC Configuration:	Maximum			

Vehicle Data				
Customer:	JK	Displacement:		
Vehicle Model:	FORD VAN	Engine Code:	B00334	
VIN:	FIRE FREEZE	Transmission:	AUTO	
Engine Number:		Country of Delivery:	USA	
Odometer:	184689	Oil Temp. before test:	---	

Dyno Data				
Inertia Weight:	6875	Actual HP:	12	
Coast Down Time:	OFF			

Fuel Data				
Fuel Sort:	0	Net Heating Value [BTU/lb]:	18650.000	
Carbon Weight Fraction:	0.858	Density [kg/l]:	0.732	

Environmental Data	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total
Ambient Temperature:	[°C]	27.09				27.09
Ambient Temperature:	[°F]	80.77				80.77
Barometric Pressure:	[mbar]	1013.26				1013.26
Relative Humidity:	[%]	31.95				31.95
Absolute Humidity:	[g/kg]	7.10				7.10
NOX Correction Factor:	[-]	0.89				0.89
Dilution Factor (Bag):	[-]	9.41				9.41
CVS Volume (20°C):	[ft³]	6272.10				6272.10
CVS Volume (0°C):	[ft³]	5844.19				5844.19
Test Distance:	[mi]	10.275				10.275
Test Distance:	[km]	16.536				16.536
Driver Violation Duration:	[s]	0.0				0.0
Driver Violation Number:	[-]	0.0				0.0

Bag Results	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total	Total Weig.
THC:	[g/mi]	0.268				0.2681	
CH4:	[g/mi]	0.001				0.0009	
NMHC:	[g/mi]	0.267				0.2673	
CO:	[g/mi]	1.034				1.0339	
NOx:	[g/mi]	3.345				3.3449	
CO2:	[g/mi]	430.315				430.3149	

Results and Limits	[g/Test]	[g/mi]	% of Limit	50k mi DF	[g/xxx]*DF	% of Limit	Limit	100k mi DF	[g/xxx]*DF
THC :	2.7546	0.2681		1.000				1.000	
NMHC :	2.7469	0.2673		1.000				1.000	
NOX :	31.4330	3.3450		1.000				1.000	
HC + Nox :	34.1876	3.6131		1.000				1.000	
CO :	10.6234	1.0339		1.000				1.000	
CO2 :	4421.49	430.31		1.000				1.000	

Fuel Economy from Bag Emi:	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total	Total Weig.
Fuel Consumption:	[l/100km]	11.698				11.698	
Fuel Economy:	[km/l]	8.548				8.548	
Fuel Economy:	[mi/gal]	20.131				20.131	

Remarks:

DIESEL WITHOUT FIRE FREEZE ADDED

Emission Test Protocol

Test Specific Data		&FTP 75 > &GASOLINE > &Bag		Test Number: 20081003-JK-TC1-02	
Driver:	Jonathan Weisheit	Date:	10-03-08		
Speedtable:	FTP75	Purpose:			
Shifttable:	auto	Software:			
ASC Configuration:	Maximum				

Vehicle Data					
Customer:	JK	Displacement:	6		
Vehicle Model:	FORD VAN	Engine Code:	B00334		
VIN:	FIRE FREEZE	Transmission:	AUTO		
Engine Number:		Country of Delivery:	USA		
Odometer:	184678	Oil Temp. before test:	---		

Dyno Data					
Inertia Weight:	6875	Actual HP:	12		
Coast Down Time:	OFF				

Fuel Data					
Fuel Sort:	0	Net Heating Value [BTU/lb]:	18650.000		
Carbon Weight Fraction:	0.858	Density [kg/l]:	0.732		

Environmental Data	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total
Ambient Temperature:	[°C]	24.55	25.84	26.85		25.77
Ambient Temperature:	[°F]	76.20	78.51	80.33		78.39
Barometric Pressure:	[mbar]	1012.14	1012.28	1012.51		1012.30
Relative Humidity:	[%]	36.01	33.23	30.53		33.23
Absolute Humidity:	[g/kg]	6.89	6.86	6.69		6.82
NOX Correction Factor:	[-]	0.89	0.89	0.88		0.89
Dilution Factor (Bag):	[-]	12.00	20.20	14.39		15.53
CVS Volume (20°C):	[ft³]	4277.70	7259.25	4362.28		15899.23
CVS Volume (0°C):	[ft³]	3985.86	6763.99	4064.67		14814.51
Test Distance:	[mi]	3.576	3.826	3.584		10.986
Test Distance:	[km]	5.755	6.157	5.768		17.680
Driver Violation Duration:	[s]	0.3	0.0	0.0		0.3
Driver Violation Number:	[-]	2.0	0.0	0.0		2.0

Bag Results	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total	Total Weig.
THC:	[g/mi]	0.306	0.425	0.301		0.3460	0.3663
CH4:	[g/mi]	0.002	0.002	0.001		0.0019	0.0019
NMHC:	[g/mi]	0.304	0.424	0.300		0.3444	0.3647
CO:	[g/mi]	2.177	1.744	1.258		1.7263	1.6998
NOx:	[g/mi]	2.655	2.311	2.773		2.5790	2.7370
CO2:	[g/mi]	652.947	593.281	545.636		597.1591	592.5404

Results and Limits	[g/Test]	[g/mi]	% of Limit	50k mi DF	[g/mi]*DF	% of Limit	Limit	100k mi DF	[g/mi]*DF
THC :	3.8011	0.3663		1.000	0.3663		1.000	1.000	0.3663
NMHC :	3.7831	0.3647		1.000	0.3647		1.000	1.000	0.3647
NOX :	29.4450	2.7370		1.000	2.7370		1.000	1.000	2.7370
HC + Nox :	33.2461	3.1933		1.000	3.1033		1.000	1.000	3.1033
CO :	18.9654	1.6998		1.000	1.6998		1.000	1.000	1.6998
CO2 :	6560.39	592.54		1.000	592.54		1.000	1.000	592.54

Fuel Economy from Bag Emi:	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total	Total Weig.
Fuel Consumption:	[l/100km]	17.768	16.147	14.828		16.244	16.120
Fuel Economy:	[km/l]	5.628	6.193	6.744		6.156	6.204
Fuel Economy:	[mi/gal]	13.254	14.585	15.883		14.498	14.609

Remarks:
 DIESEL WITHOUT FIRE FREEZE

Emission Test Protocol**Test Specific Data** &FTP 75 > &GASOLINE > &Bag

Driver:	Jonathan Weisheit	Date:	10-05-08
Speedtable:	FTP75	Purpose:	
Shifttable:	auto	Software:	
ASC Configuration:	Maximum		

Vehicle Data

Customer:	JK	Displacement:	6
Vehicle Model:	FORD VAN	Engine Code:	B00334
VIN:	FIRE FREEZE	Transmission:	AUTO
Engine Number:		Country of Delivery:	USA
Odometer:	184916	Oil Temp. before test:	---

Dyno Data

Inertia Weight:	6875	Actual HP:	12
Coast Down Time:	OFF		

Fuel Data

Fuel Sort:	0	Net Heating Value [BTU/lb]:	18650.000
Carbon Weight Fraction:	0.858	Density [kg/l]:	0.732

Environmental Data	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total
Ambient Temperature:	[°C]	26.00	27.47	28.97		27.48
Ambient Temperature:	[°F]	78.80	81.44	84.15		81.46
Barometric Pressure:	[mbar]	1021.39	1021.34	1021.12		1021.29
Relative Humidity:	[%]	38.66	37.03	35.61		37.09
Absolute Humidity:	[g/kg]	8.00	8.36	8.79		8.38
NOX Correction Factor:	[-]	0.92	0.93	0.94		0.93
Dilution Factor (Bag):	[-]	12.37	20.20	14.24		15.60
CVS Volume (20°C):	[ft³]	4317.39	7292.80	4263.54		15873.73
CVS Volume (0°C):	[ft³]	4022.84	6795.25	3972.66		14790.75
Test Distance:	[mi]	3.578	3.827	3.595		11.000
Test Distance:	[km]	5.758	6.159	5.786		17.703
Driver Violation Duration:	[s]	0.0	0.0	0.0		0.0
Driver Violation Number:	[-]	0.0	0.0	0.0		0.0

Bag Results	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total	Total Weig.
THC:	[g/mi]	0.279	0.373	0.278		0.3117	0.3275
CH4:	[g/mi]	0.001	0.000	0.000		0.0004	0.0003
NMHC:	[g/mi]	0.278	0.374	0.279		0.3121	0.3281
CO:	[g/mi]	2.068	1.581	1.074		1.5736	1.5422
NOx:	[g/mi]	2.309	2.080	2.486		2.2992	2.4744
CO2:	[g/mi]	631.437	584.422	528.441		581.4190	578.7344

Results and Limits	[g/Test]	[g/mi]	% of Limit	50k mi DF	[g/mi]*DF	% of Limit	Limit	100k mi DF	[g/mi]*DF
THC :	3.4289	0.3275		1.000	0.3275		1.000	1.000	0.3275
NMHC :	3.4328	0.3281		1.000	0.3281		1.000	1.000	0.3281
NOX :	26.4905	2.4744		1.000	2.4744		1.000	1.000	2.4744
HC + Nox :	29.9194	2.8019		1.000	2.8019		1.000	1.000	2.8019
CO :	17.3096	1.5422		1.000	1.5422		1.000	1.000	1.5422
CO2 :	6395.61	578.73		1.000	578.73		1.000	1.000	578.73

Fuel Economy from Bag Emi:	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Total	Total Weig.
Fuel Consumption:	[l/100km]	17.179	15.896	14.353		15.809	15.737
Fuel Economy:	[km/l]	5.821	6.291	6.967		6.325	6.355
Fuel Economy:	[mi/gal]	13.708	14.815	16.408		14.897	14.965

Remarks:

WITH FIRE FREEZE ADDED - 10% REDUCTION IN NOX. - REDUCTION IN ALL EMISSIONS - SLIGHT INCREASE IN MPG