

TADGER
GROUP
INTERNATIONAL



**CUSTOM MADE FOR
CLEANER AIR & LESS FUEL**

Mileage Improvement Program

Location: Mr. Tire Stores

Baltimore, MD

Dates: Apr.16 – July 15, 2006



OR



Summary

Tadger Group International and Monro Muffler/Brake collaborated to demonstrate the Tadger in-line fuel economy improvement technology.

This testing program was an extension to the original test completed in January 2005. This trial used a larger sample size of 68 vehicles from the Mr. Tire locations in Maryland. The test vehicles were equipped with the Tadger technology, run under normal operating conditions making deliveries and both the “before Tadger” and “with Tadger” mileage was tracked using the Monro Fuel Card system.

Not all stores tracked their mileage however we were able to capture data for 43 stores. The tests on forty-three different vehicles indicated across the board improvements in fuel economy.

Definitions

MPG.....Miles per Gallon

Vehicles

1998 – 2005 Ford Ranger	(56 trucks)
1992 – 1994 Ford F150	(2 trucks)
1998 Chevy 2500	(1 truck)
1988 Dodge Ram	(1 truck)
2004 Dodge Dakota	(8 trucks)

Test Equipment

Exxon Mobil fuel tracking system

Test Procedure

- 1) Calculate “before Tadger” data from Exxon Mobil system for Tadger vehicles
- 2) Ship Tadgers in engine-specific installation kits to Mr. Tire stores
- 3) Install Tadger on Tadger vehicles (10 min.)
- 4) Run normal delivery routes with all trucks
- 5) Calculate “with Tadger” data from Exxon Mobil system for Tadger vehicles

Results

The results have been documented and illustrated on the attached charts. Additional test results for other municipalities, private industry and larger fleets is available on request or at www.tadgergroup.com

Shop	Year	Make	Model	<u>Without Tadger MPG</u>			<u>With Tadger MPG</u>		
				<u>1.16.06 - 3.15.06</u>			<u>4.16.06 - 7.15.06</u>		
				<u>Miles</u>	<u>Gallons</u>	<u>Mpg</u>	<u>Miles</u>	<u>Gallons</u>	<u>Mpg</u>
625	1992	Ford	F150	1082	102.54	10.55	3245	261.93	12.39
629	1988	Dodge	Ram	1071	94.90	11.29	3080	274.81	11.21
701	2002	Ford	Ranger	2645	141.75	18.66	4131	221.93	18.61
702	2002	Ford	Ranger	2442	117.75	20.74	4985	232.81	21.41
703	2002	Ford	Ranger	3252	168.18	19.34	8959	443.64	20.19
704	2002	Ford	Ranger	2626	147.94	17.75	6189	336.44	18.40
705	2002	Ford	Ranger	226	13.15	17.19	2111	109.40	19.30
709	2002	Ford	Ranger	1438	71.51	20.11	3790	195.49	19.39
710	2002	Ford	Ranger	2955	137.00	21.57	6417	298.17	21.52
712	2002	Ford	Ranger	2514	136.27	18.45	5127	268.19	19.12
713	2002	Ford	Ranger	3188	152.54	20.90	6037	277.46	21.76
714	2002	Ford	Ranger	526	27.73	18.97	1084	56.47	19.20
715	2002	Ford	Ranger	1651	76.62	21.55	3628	164.85	22.01
717	2002	Ford	Ranger	2108	102.15	20.64	4323	202.75	21.32
718	2002	Ford	Ranger	248	13.76	18.02	1331	68.11	19.54
720	2002	Ford	Ranger	2459	125.96	19.52	3653	182.94	19.97
721	2004	Ford	Ranger	987	63.73	15.49	2539	124.17	20.45
722	2002	Ford	Ranger	546	35.20	15.51	1448	86.33	16.77
724	2002	Ford	Ranger	1927	113.57	16.97	4692	282.98	16.58
727	2002	Ford	Ranger	1007	60.00	16.78	212	12.43	17.06
729	2002	Ford	Ranger	729	39.59	18.41	4767	263.95	18.06
732	2002	Ford	Ranger	1542	88.34	17.46	3149	171.51	18.36

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			<u>Miles</u>	<u>Gallons</u>	<u>Mpg</u>	<u>Miles</u>	<u>Gallons</u>	<u>Mpg</u>	
750	2004	Dodge	Dakota	1985	144.73	13.72	4947	341.98	14.47
752	2004	Ford	Ranger	728	40.39	18.02	586	29.37	19.95
754	2004	Ford	Ranger	1354	65.99	20.52	1211	62.37	19.42
756	2004	Ford	Ranger	1900	77.21	24.61	1493	58.10	25.70
761	2004	Dodge	Dakota	4370	273.61	15.97	9254	589.05	15.71
764	2004	Dodge	Dakota	2081	143.27	14.53	900	44.93	20.03
765	2004	Dodge	Dakota	820	73.36	11.18	1344	123.39	10.89
766	2004	Dodge	Dakota	4232	226.99	18.64	1246	64.92	19.19
767	2004	Ford	Ranger	723	39.94	18.10	6822	342.82	19.90
768	2004	Ford	Ranger	2460	129.80	18.95	473	26.49	17.86
771	2004	Ford	Ranger	1578	72.79	21.68	4914	232.50	21.14
774	2004	Dodge	Dakota	1004	83.11	12.08	2226	146.38	15.21
775	2004	Ford	Ranger	3917	192.87	20.31	7518	346.27	21.71
786	2005	Ford	Ranger	1629	71.33	22.84	617	23.14	26.66
787	2005	Ford	Ranger	720	38.38	18.76	816	41.00	19.90
788	2005	Ford	Ranger	1128	54.61	20.66	2206	109.49	20.15
789	2005	Ford	Ranger	286	13.63	20.98	4484	165.09	27.16
791	2005	Ford	Ranger	3881	181.47	21.39	6216	282.41	22.01
793	2005	Ford	Ranger	611	27.69	22.07	3681	157.10	23.43
794	2005	Ford	Ranger	518	28.39	18.25	1655	80.84	20.47
795	2005	Ford	Ranger	981	57.16	17.16	1618	96.68	16.74

Without Tadger MPG
1.16.06 - 3.15.06

With Tadger MPG
4.16.06 - 7.15.06

MPG
Savings

%
Savings

18.29

19.31

1.02

5.6%

Avge Gallons per
month per truck

Avge Gallons
saved per month

\$ Saved
per month

R.O.I.
in months

88.65

4.94

\$13.60

11.7

Option 1 - Payment made net 30

Monthly customer fuel useage in Gallons	48,758
Average cost of fuel / gallon	\$2.37
# of Tadgers required	553
Tadger Savings as a %	5.60%
One time cost per Tadger	\$159.00
One time cost for fleet	\$87,927.00
Return on Investment (ROI) in months	13.6
Monthly profit per Tadger after ROI period	\$11.70
Monthly profit for fleet after ROI period	\$6,471.10
Annual profit for fleet after ROI period	\$77,653.14



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Discussion & Conclusion

The purpose of this portion of the test program was to validate the results from the original test by using a larger sample size.

A total of 43 vehicles were accurately monitored with and without the Tadger product installed.

The results of this test program validated the original conclusion that the Tadger is effective in improving fuel economy.