

Motor Oil Additive Analysis Of Add-It Engine Treatment

Project Scope:

GWT & Associates, Inc. has requested Ecohek conduct an independent, scientific, research analysis on motor oil additives. This scientific analysis will be conducted under guidelines furnished by the manufacturer and The U. S. Government, (GSA, General Services Administration). Data collected from this project will be used to determine any increased performance values or benefits achieved from using motor oil additives. Any analysis, or data derived from this research shall be considered proprietary, and the sole property of the manufacture.

Method of Analysis:

1. A total of three (3) automobiles were used in this experiment. Each automobile used in this study had more that 25,000 miles in odometer readings. Test vehicles used are described as follows:

Vehicle 1

1. (1) Four cylinder engine. A 1981 Jeep CJ 7, with a 151 cubic inch displacement engine, manual shift transmission. Tires were Pathfinder Radial APR, with a treadwear rating of 360, temperature B traction A. Standard tire pressure of 35 psi was maintained throughout the study. This vehicle was driven over a course of local mileage. Course duplication of base line data and after additive was almost exact. Beginning odometer reading 90110.0 miles.

Vehicle 2

2. (1) Eight cylinder engine. A 1993 Lincoln Town Car, with a 4.6 liter engine, auto transmission. Tires were Michelin XW4, with a treadwear rating of 520, temp. B and traction A. Standard tire pressure of 35 psi was maintained through the study. This vehicle was driven over a local course. Beginning odometer reading of 98,300.0 miles.

Vehicle 3

3. (1) Eight cylinder engine. Also a 1993 Lincoln Town Car, with a 4.6 liter engine, auto transmission. Tires were Michelin XW4, with a tread wear rating of 520, temperature B and traction A. Standard tire pressure of 35 psi was maintained throughout the study. This vehicle was driven over long range highway miles. Beginning odometer reading of 174,953.0 miles.
2. Data for base line analysis was obtained from 400 miles actual usage over actual road conditions.
3. After base line data had been obtained and properly documented, the automobiles were serviced at Jiffy Lube. This service included an oil and oil filter change. Two ounces of Add-It Engine Treatment was added to the oil at oil change. This procedure was supervised and documented by the individual driver and Jiffy Lube personnel.
4. Data was again collected, and documented for a period of 400 miles over actual road conditions and of a similar course. Only Vehicle One (1) posted an immediate mileage/improvement.
5. Based on previous experience and experimentation, performance value should increase aft 400 miles of usage of the Add-It Engine Treatment . Both Vehicle Two (2) and Three (3) exhibited this same trend, with best performance increases obtained after 1200 to 1300 miles use after Add-It Engine Treatment was added.
6. Very limited knowledge about this chemical nomenclature, or the physical attributes of the product was known. Information was maintained as proprietary, and supplied on a "Need to Know" basics. Also this product was not analyzed, or reversed engineered.

Comparative Chart of Gasoline Mileage Before and After Using Add-It Engine Treatment

	Initial Mpg	Mpg With Add-It E T	Mpg Increase	% Increase
Vehicle 1	17.20	19.48	2.20	+ 13.25
Vehicle 2	21.27	23.00	1.73	+ 8.13
Vehicle 3	22.56	24.76	2.20	+ 9.75

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Summary

Several observations were made during the course of this study. First and foremost, the study reveals documented evidence of increased gas mileage in all three Test Vehicles. Other noteworthy observations must include Vehicle 1, a four cylinder engine showed immediate improvement in gas mileage with addition of Add-It Engine Treatment at oil change. Both Test Vehicles 2 and 3, (eight cylinders) responded much slower. No increase in gas mileage was noted before 1200 -1300 miles after addition of Add-It Engine Treatment which was added to the oil at the oil change. No maintenance was performed on any of the Test Vehicles.

Addendum

Motor Oil Additive Analysis

This addendum covers continued independent analysis of Add-It Engine Treatment for GWT and Associates, Inc. Previous collection of Data and analysis from the original study consisted of performance values taken after 400 road miles of testing. Data collected from the original study showed an immediate gas mileage increase of 13.25 % on Test Vehicle # 1. Subsequently, this addendum evaluates extended road mileage testing to further analyze extended performance of the Test Vehicle treated with Add-It Engine Treatment.

Test Vehicle #1 continued to reach 29.61% increase in gas mileage. This increase was incremental on a tankfill by tankfill basis, with the last two tankfills producing almost the same 29.6% increase. This increase occurred after an additional 651 road miles of testing. Total test mileage on Test Vehicle # 1 was 1147 miles.

Test Vehicle # 1

Initial Mpg	Avg. Mpg. After 400	% Increase After 400 Miles	Avg. Mpg. After 1151 Miles	% Increase After 1151 Miles
17.2	19.48	13.26	22.29	29.59

LeNaturel International, Inc.
410 North Street Suite 122
Longwood, FL 32750

E-Mail: lenature@bellsouth.net
Phone: 407-339-7072
Fax: 407-804-1085

