

Ferox Gasoline Fleet Test

Ferox Gasoline Fleet Test Summary

25 November 1996

In late 1989 Ferox, Inc. began a fuel economy evaluation with Ferox on a fleet of over 40 vehicles owned by Parish Chemical Company employees. In January of 1990 the fleet was split into two matched groups of twenty (20) vehicles each and monitored for a year on non- treated fuel in order to obtain baseline data and confirm the stability of the two groups. Each group fueled from its own fueling station. In January of 1991 one group was picked to begin using Ferox treated fuel. The two groups were then monitored for ten (10) months. The test was concluded on the last week of October 1991. The result was an average of 9.5% improvement in fuel economy with a statistical confidence level of 95% for the treated group over the non-treated group.

The following spreadsheet shows a summary of the data. Averages were calculated every ten (10) days for each fleet. From periods 1 through 36 the two groups follow each other very closely. The up and down variations follow the same basic trends for both groups indicating that outside variables affected both groups in the same way. At period number 37 the treatment began. Two months later (period number 43) the groups began to diverge and by three months (period number 46) the treated group clearly split from the control group. Even after the split the two groups still followed the same up and down trends indicating that outside variables were still affecting both groups. This indicates that the margin of difference in the performance was due solely to the effects of Ferox. The fact that the two groups do not cross each other, and the minimum overlap by the standard deviations, leads to a 95% confidence level that the difference is real.

