



Technical Bulletin No. 099

January 1993

SUMMARY OF THE TEST OF FPC-1[®] ACTIVE INGREDIENT BY DESERET PROFESSIONAL ENGINEERING, AT BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH

This paper summarizes the results of tests with the active ingredient for FPC-1[®]. The tests were conducted for Utah Power and Light by Dr. Geoffrey J. Germane, Ph.D Mechanical Engineering and Professor of Mechanical Engineering at Brigham Young University, Provo, Utah and Deseret Professional.

A bench mounted, Ford 302, V8 was the test engine. The engine was monitored using a dynamometer. Two test cycles were used, one simulating urban driving (1250rpm) and the other, a highway driving simulation (2200rpm).

Fuel consumption and regulated emissions were measured on base fuel, then the engine ran on additive treated fuel for a 23 hour (1150 mile) engine preconditioning period, and the test procedure repeated.

Conclusions

- (1) Fuel economy was improved an average 8.42% after fuel treatment with FPC-1[®] additive (average of both urban and highway cycles).
- (2) Carbon monoxide emissions were reduced 10.8% with FPC-1[®] treated fuel. Unburned hydrocarbons and oxides of nitrogen were unchanged with additive treatment.

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