

201 N Columbia Blvd.  
Portland, OR 97217  
PH 503-548-4521  
FAX 503-283-6770  
1-800-651-1989  
www.wsbindustries.com



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## Pacific Northwest U.S. Construction Fleet

### Summary:

- A large construction fleet in the U.S. using WSB Fuel Enhancer (FE) in all vehicles reports fleet-wide fuel economy improvement of 13%
- The fleet's technician reports that the return on investment for FE exceeds 1200%

### Situation:

A construction fleet located in the U.S. Pacific Northwest operates more than 100 Ready Mix vehicles, 100 other on-highway vehicles and 1000+ off-highway vehicles. They run Cummins and Caterpillar engines and much of the on-highway fleet is configured for extended weight up to 105,000 pounds



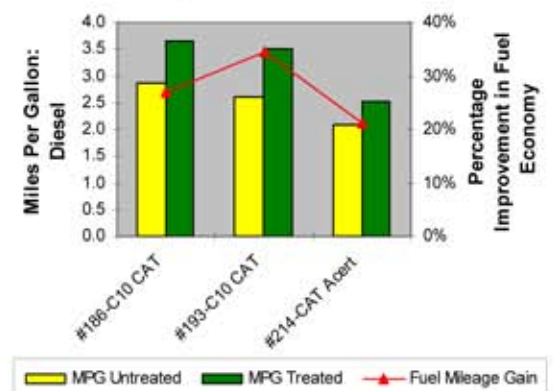
### WSB Solution:

Beginning in 2008, fleet managers sought a fleet-wide fuel economy improvement approaching 10 percent. To minimize monitoring requirements, they desired to reach this target without requiring changes in driver practices. The fleet initially tested WSB FE in 9 types of vehicles - both on-road and off-road - and found fuel economy improvements that ranged from 8% to more than 35%. The testing was conducted over a four week period with drivers keeping manual logs of mileage and fueling history.

### Performance Testing and Results

Following testing, the fleet began using FE in all vehicles. The supplier delivers fuel with FE premixed at the rack. The fleet manager reports that as a result of FE use, the fleet-wide fuel economy has improved by 13% over the pre-test baseline. To ensure quality, the fleet tests several vehicles each month. Recent results for 3 Ready Mix trucks shown in the chart to the right range from 21% to 35% improvement over the baseline. The fleet also reports that water in fuel tanks, monitored electronically, disappeared soon after the initial application of FE. With less water in the tank, bacteria problems are abated and fuel filter replacements are now back to a normal PM cycle. Considering all benefits delivered, the fleet technician calculates the return on investment for FE is in excess of 1200%

Fuel Economy Test Results Using WSB FE



### Customer Statement:

The fuel economy improvement is great, but just as important for us is improving the reliability of our operations and fueling equipment. Eliminating the water is huge!

Supervisory Technician, Fleet Maintenance Division