



## EXECUTIVE SUMMARY – FUEL CONSUMPTION FIELD TRIAL

Midwest Based Fleet

### Test Description

Fuel economy testing on five 2007 IHC 9400 tractors equipped with Cummins ISX engines.

### Test Objective

Evaluate fuel economy benefits derived from using Bully Dog's Cummins Power Pup™ Downloader under different circumstances with five tractors. The first two tractors were installed with the Bully Dog downloader on February 1, 2008 while the last three tractors were installed on May, 2, 2008. As the tractors returned to the yard, data was gathered and compiled.

### Test Program

Baseline fuel economy was calculated and then the tractors ran their normal routes with their normal loads. Baseline fuel economy was as follows:

#### Unit # Baseline Economy

AA	6.60
AB	6.83
AC	6.08
AD	5.65
AE	6.90

### Vehicle

All tractors are 2007 IHC 9400 tractors equipped with Cummins ISX engines. Some tractors were also equipped with auxiliary power units (APU) and some were not. Complete details are available on the second page of this report.

### Fuel Type & Fuel Measurement System

The fuel used during the test was a standard #2 diesel fuel.

Fuel economy was measured by the number of miles driven divided by the number of gallons burned. The results were then compared to the average fuel economy before installation.

### TEST RESULTS

The latest fuel report fuel consumption along with the percentage increase for each of the tractors is shown below.

Unit #	Latest Fuel Consumption	Percent Change
AA	8.11	22.9%
AB	7.39	8.2%
AC	7.09	16.6%
AD	6.46	14.3%
AE	8.30	20.3%



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Unit #	Date	Report Period	Fuel Consumption	MPG Change	Percent Change
AA	2/1/2008	Baseline Fuel Economy	6.60	NA	NA
AA	3/5/2008	1st Report	7.36	0.76	11.5%
AA	4/1/2008	2nd Report	7.47	0.87	13.2%
AA	5/16/2008	3rd Report	7.68	1.08	16.3%
AA	5/22/2008	4th Report	8.11	1.51	22.9%
AB	2/1/2008	Baseline Fuel Economy	6.83	NA	NA
AB	3/5/2008	1st Report	6.90	0.07	1.0%
AB	4/1/2008	2nd Report	6.88	0.05	0.7%
AB	5/1/2008	3rd Report	7.13	0.30	4.4%
AB	5/22/2008	4th Report	7.39	0.56	8.2%
AC	5/2/2008	Baseline Fuel Economy	6.08	NA	NA
AC	5/22/2008	1st Report	7.09	1.01	16.6%
AD	5/2/2008	Baseline Fuel Economy	5.65	NA	NA
AD	5/9/2008	1st Report	5.78	0.13	2.3%
AD	5/16/2008	2nd Report	6.46	0.81	14.3%
AE	5/2/2008	Baseline Fuel Economy	6.90	NA	NA
AE	5/9/2008	1st Report	7.88	0.98	14.2%
AE	5/12/2008	2nd Report	7.81	0.91	13.2%
AE	5/16/2008	3rd Report	7.80	0.90	13.0%
AE	5/22/2008	4th Report	8.30	1.40	20.3%

#### Description

AA	2007 IHC 9400 Cummins ISX With APU
AB	2007 IHC 9400 Cummins ISX W/O APU
AC	2007 IHC 9400 Cummins ISX W/O APU
AD	2007 IHC 9400 Cummins ISX With APU
AE	2007 IHC 9400 Cummins ISX With APU

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