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**The Effect of DIPETANE Fuel Technology
on the Fuel Consumption of a Class VIII
Tractor-Trailer Combination Vehicle**

CONDUCTED BY:

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PREPARED FOR:

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OBJECTIVE:

This test series was conducted to determine the effect on fuel economy when DIPETANE Fuel Technology was blended with the diesel fuel used to power Class VIII tractor-trailer combination vehicles.

TEST VEHICLES:

All four vehicles were mechanically identical. Mileage odometer readings, before the test began, were as follows: Unit 61553 at 268,208 miles; unit 61557 at 367,559 miles; unit 61559 at 246,029 miles; and unit 61564 at 240,853 miles.

SUMMARY OF RESULTS:

In the terms of SAE Procedure J1321, test results were as follows:

<u>Test Series No.</u>	<u>Test Speed</u>	<u>% Fuel Saved</u>	<u>% Improvement</u>
1	62 mph	2.8 %	2.9%
2	62 mph	1.7%	1.8%
3	62 mph	4.0%	4.2%

CUMMINS ENGINE CO. DYNAMOMETER TEST RESULTS:

<u>Test Vehicle</u>	Blow-By Test			Horsepower Test		
	<u>Jan.</u>	<u>Apr.</u>	<u>%</u>	<u>Jan.</u>	<u>Apr.</u>	<u>%</u>
61553	13"	8"	-38.5%	375	392	+4.5%
61557	12"	8"	-33.3%	384	398	+3.6%
61564	12"	9"	-25.0%	382	391	+2.4%
<u>Control Vehicle</u>						
61559	8"	8"	0%	398	396	-.5%

CONCLUSION:

The installation of DIPETANE Fuel Technology in the diesel fuel used to power the test vehicles demonstrated a significant and repeatable improvement in fuel economy. DIPETANE Fuel Technology used in this test series also resulted in an increase in horsepower coupled with a marked reduction in engine "blow-by", which will contribute to increased engine miles-to-overhaul.

REPORT PREPARED BY:

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