

## TYPE II—FUEL ECONOMY TEST DATA FORM #3-3

Fleet MOLETECH Date 7/11- 7/12, 2007 Test # \_\_\_\_\_

## Test Results:

\_\_\_\_\_ % fuel saved after change  
4.278  
 \_\_\_\_\_ % improvement in fuel economy after change (describe below):

After reviewing the results from our tests of 7/5-7/7/07, I was asked to run an additional test on my personal vehicle. This vehicle is a 2000 GMC Sierra with 107,000 actual miles. The mileage numbers in this report are less due to a gauge cluster change at 14,836 miles.

The test conduct and protocol are the same as in the report of 7/9/07, with the exception of the break in route which included a 2 mile long, 6% grade requiring a down shift to maintain 65 mph.

We ran two (2) 96.6 mile baseline loops to develop an average baseline of 20.3017 mpg.

We then ran three (3) individual loops, re-fueling after each loop. The individual loops produced mileages of; 21.1148, 21.1703, and 21.2261 mpg. Evaluated, individually, against the average baseline yielded; 4.005%, 4.278% and 4.553%. This supports the claim of improvement over time/use. The average of these mileages is 21.1704, indicating a linear improvement during this test. At what point the improvement terminates has not been determined by this writer.

A chart of the these findings is included for you convenience.

*John W. Finell*  
 7/13/07

SAE J1321 Reaffirmed OCT86

TYPE II—FUEL ECONOMY TEST DATA FORM #2-4

TEST SEGMENT OF THE TEST VEHICLE

Type II Test—Portable Fuel Tank Weighing Method or Fuel Flow Meter Method

Fleet MOLETECH Test Tractor # N/A Test Trailer # \_\_\_\_\_  
 Driver JWF Observer N/A  
 Test # 2000 GMC Date 7/11/07  
 Test Speed 65 (target) Route \_\_\_\_\_

Test Run #1

Scale Repeatability Check Weight BASELINE

<u>Fuel Weight/Fuel Meter Reading</u>	<u>Odometer</u>	<u>Time</u>
Start <u>FULL</u>	<u>92103</u>	<u>1045</u>
Finish <u>FULL</u>	<u>92198</u>	<u>1230</u>
Fuel Used <u>4.722</u> lb/gal kg/L (circle one)	<u>96.6 mi</u>	<u>20.457 MPG</u>
Time from Start to Finish _____ h _____ m _____ s		
Subtract Vehicle Stopped Time _____ h _____ m _____ s		
Vehicle Running Time <sup>1</sup> <u>1</u> h <u>36</u> m <u>17</u> s		

Test Run #2

Scale Repeatability Check Weight BASELINE #2

<u>Fuel Weight/Fuel Meter Reading</u>	<u>Odometer</u>	<u>Time</u>
Start <u>Full</u>	<u>92198</u>	<u>1245</u>
Finish <u>Full</u>	<u>92293</u>	<u>1438</u>
Fuel Used <u>4.795</u> lb/gal kg/L (circle one)	<u>96.6 mi.</u>	<u>20.146 MPG</u>
Time from Start to Finish _____ h _____ m _____ s		
Subtract Vehicle Stopped Time _____ h _____ m _____ s		
Vehicle Running Time <sup>1</sup> <u>1</u> h <u>41</u> m <u>12</u> s		

Test Run #3

Scale Repeatability Check Weight break in

<u>Fuel Weight/Fuel Meter Reading</u>	<u>Odometer</u>	<u>Time</u>
Start <u>FULL</u>	<u>92302</u>	<u>0930</u>
Finish <u>FULL</u>	<u>92345</u>	<u>1050</u>
Fuel Used <u>3.54</u> lb/gal kg/L (circle one)	<u>45.2 mi.</u>	
Time from Start to Finish _____ h _____ m _____ s		
Subtract Vehicle Stopped Time _____ h _____ m _____ s		
Vehicle Running Time <sup>1</sup> _____ h _____ m _____ s		

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TYPE II—FUEL ECONOMY TEST DATA FORM #2-4

TEST SEGMENT OF THE TEST VEHICLE

Type II Test—Portable Fuel Tank Weighing Method or Fuel Flow Meter Method

Fleet MOLETECH Test Tractor # N/A Test Trailer # \_\_\_\_\_  
 Driver JWF Observer N/A  
 Test # 2000 GMC Date 7/12/07  
 Test Speed 65 (target) Route \_\_\_\_\_

Test Run #1  
 Scale Repeatability Check Weight LOOP #1 after install

	<u>Fuel Weight/Fuel Meter Reading</u>	<u>Odometer</u>	<u>Time</u>
Start	<u>FULL</u>	<u>92349</u>	<u>1310</u>
Finish	<u>FULL</u>	<u>92444</u>	<u>1450</u>
Fuel Used	<u>4.575</u> lb/gal kg/L (circle one)	<u>96.6</u> mi	<u>21.115</u> MPG
Time from Start to Finish	_____ h _____ m _____ s		
Subtract Vehicle Stopped Time	_____ h _____ m _____ s		
Vehicle Running Time <sup>1</sup>	<u>1</u> h <u>38</u> m <u>32</u> s		

Test Run #2  
 Scale Repeatability Check Weight LOOP #2 after install

	<u>Fuel Weight/Fuel Meter Reading</u>	<u>Odometer</u>	<u>Time</u>
Start	<u>Full</u>	<u>92450</u>	<u>1940</u>
Finish	<u>Full</u>	<u>92545</u>	<u>2130</u>
Fuel Used	<u>4.563</u> lb/gal kg/L (circle one)	<u>96.6</u> MI.	<u>21.170</u> MPG
Time from Start to Finish	_____ h _____ m _____ s		
Subtract Vehicle Stopped Time	_____ h _____ m _____ s		
Vehicle Running Time <sup>1</sup>	<u>1</u> h <u>39</u> m <u>12</u> s		

Test Run #3  
 Scale Repeatability Check Weight LOOP #3 after install

	<u>Fuel Weight/Fuel Meter Reading</u>	<u>Odometer</u>	<u>Time</u>
Start	<u>FULL</u>	<u>92545</u>	<u>2133</u>
Finish	<u>FULL</u>	<u>92640</u>	<u>2330</u>
Fuel Used	<u>4.547</u> g lb/gal kg/L (circle one)	<u>96.6</u> MI.	<u>21.226</u> MPG
Time from Start to Finish	_____ h _____ m _____ s		
Subtract Vehicle Stopped Time	_____ h _____ m _____ s		
Vehicle Running Time <sup>1</sup>	<u>1</u> h <u>35</u> m <u>59</u> s		