



INDEPENDENT DYNAMOMETER TESTING

TADGER Group International

E-mail: support@tadgergroup.com Web site: www.tadgergroup.com

DYNAMOMETER ANALYSIS

1981 FORD CAT 3406B Engine

	<u>RPM's-</u>	<u>1800</u>	<u>1600</u>	<u>1500</u>	<u>1300</u>	<u>1100</u>
<u>Before TADGER</u>						
Engine Speed		1799	1602	1500	1296	1099
Vehicle Speed (miles per hour)		59	52	49	42	36
Fuel Rate (gallons per hour)		16.3	17.2	17.1	15.8	14.0
Wheel Horsepower						
Measured		299	322	320	298	255
Corrected*		313	337	333	307	262
<u>After TADGER</u>						
Engine Speed		1800	1597	1502	1297	1100
Vehicle Speed (miles per hour)		60	53	50	43	36
Fuel Rate (gallons per hour)		15.9	16.5	16.7	16.1	14.2
Wheel Horsepower						
Measured		310	338	325	297	256
Corrected*		321	349	333	306	263

*Indicates any deviation noted in measured wheel horsepower.

Dynamometer test conducted by TOROMONT CAT, Mississauga, Ontario
Analysis performed by NOVAMANN (Ontario) Inc.
Quality Analytical Laboratories

The TADGER Group

E-mail: support@tadgergroup.com Web site: www.tadgergroup.com

SIMULATED ROAD CONDITIONS

2000 RPM – 50,000 LB. LOAD – 60 MPH

TEST # 1

Detroit Diesel – Series 60 – Cruise Control – MAPP System

BEFORE INSTALLATION		AFTER INSTALLATION	
THC	NOx	THC	NOx
70.00	737	38.52	626
70.73	795	39.30	698
74.89	799	40.08	715
75.40	803	40.08	723
74.37	806	38.00	726
73.07	809	39.96	732
71.25	809	35.92	736
70.47	811		
66.57	811		

On average, a decrease of 52% is shown in Total Hydrocarbon Emissions (THC)
NOx emissions were reduced by 10.88%, and the combustion of the readings indicates
cleaner burning, more efficient combustion. Conditions on the drive train were simulated
within the accuracy of the computer-controlled dynamometer.

Dynamometer test conducted by TOROMONT CAT, Mississauga, Ontario, Canada
Analysis performed by NOVAMANN (Ontario) Inc. Quality Analytical Laboratories