

**TADGER**  
GROUP  
INTERNATIONAL



**CUSTOM MADE FOR  
CLEANER AIR & LESS FUEL**

## Environmental Technology Demonstration

**Location: Ed Learn Ford**

**St. Catharines, ON**

**Dates: May 10, 2007**

**ED LEARN FORD**  
the competitor

Call Toll Free 1-877-218-4048

LEARN

Ford

Ford

Ed Learn

## Summary

Tadger Group International and Ed Learn Ford collaborated to demonstrate the Tadger in-line emission reduction technology. The testing program was performed according to the Ontario Drive Clean Program for light duty vehicles under ASM 2525. The test vehicle was baseline tested, equipped with the Tadger technology and retested with the Tadger installed.

The ASM 2525 test on a 2004 Ford F150 Pickup indicated an average change in hydrocarbons of  $-80.3\%$ , carbon monoxide of  $-0.05\%$  and oxides of nitrogen of  $-2.0$  ppm

# Definitions

HC.....	Hydrocarbons
CO.....	Carbon Monoxide
NO.....	Oxides of Nitrogen
PPM.....	Parts per million
ASM.....	Accelerated simulation mode
Km/h.....	Kilometers per hour

# Vehicle

2004 4.6L Ford F150 Pickup



# Test Equipment

Snap On / Sun Tech systems emissions analyzer # A3226

# Test Procedure

- 1) Warm up engine
- 2) Baseline emission test with no Tadger installed (90 sec.)
- 3) Install Tadger (10 min.)
- 4) Warm up engine (1km drive)
- 5) Emission test with Tadger installed (90 sec.)

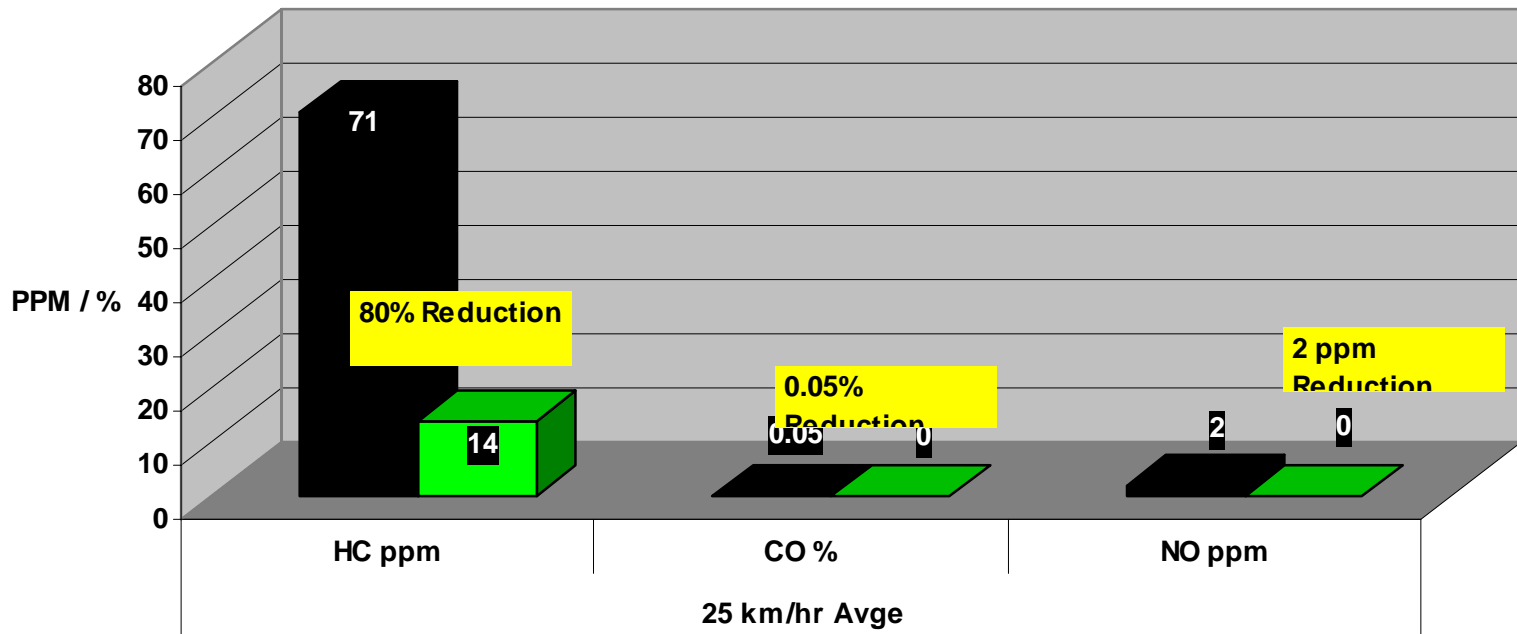


# Results

The results have been documented and illustrated on the attached graphs. Additional test results for other municipalities, private industry and larger fleets is available on request or at [www.tadgergroup.com](http://www.tadgergroup.com)



ASM 2525 Diagnostic Tailpipe Emissions Inspection  
2004 4.6L Ford F150 Pickup



■ Without Tadger - May 10, 2007

■ With Tadger - May 10, 2007

# 2004 4.6L Ford F150 Pickup

Without Tadger - May 10, 2007

With Tadger - May 10, 2007

Improvement

25 km/h Avg

HC ppm

CO %

NO ppm

71

0.05

2

14

0

0

80.3%

100.0%

100.0%

## 2525 ASM Diagnostic Test

Year: 2004      Trans: A      Trace Dist: 0.324 km      Date: 10/05/07  
 Make: FORD      Fuel: G      Trace Time: 90 sec      Time: 14:21  
 Model: F150      Size:      Station: 4002  
 Cyls: 8      Analyzer: A3226

AVERAGES    HC ppm    NO ppm    CO %    CO2 %    O2 %    Hp    Inertia  
 71        2        0.05    15.3    0.1    14.9    5000

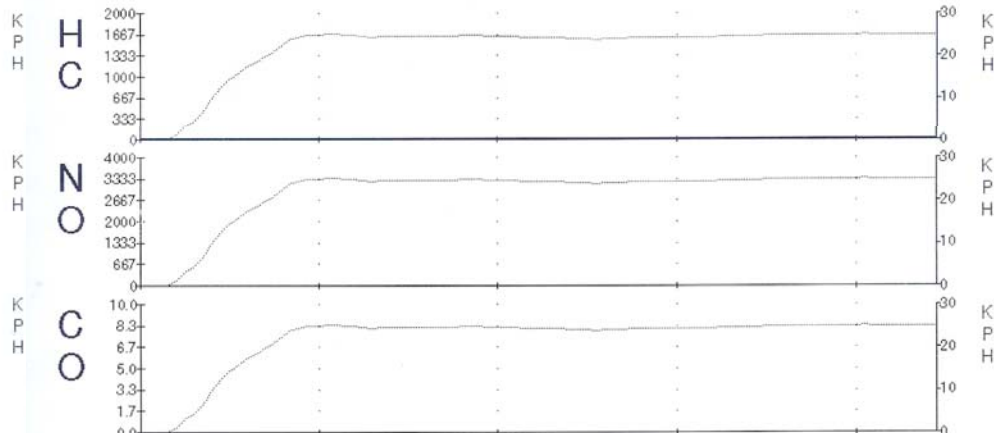
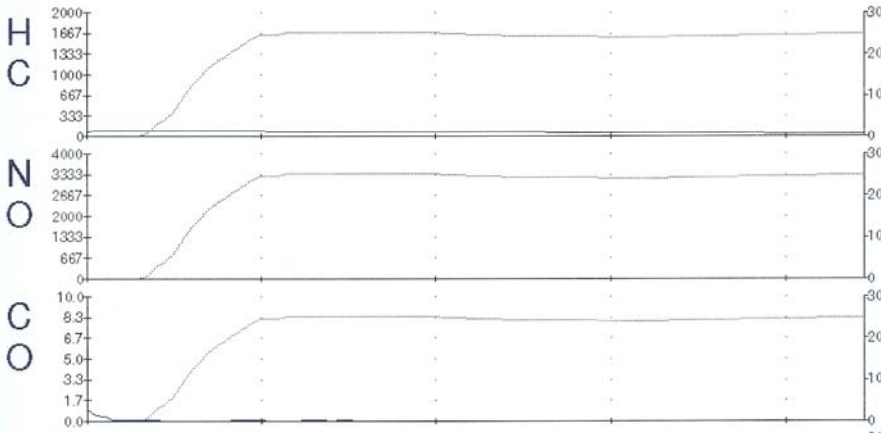
*No TADGER*

## 2525 ASM Diagnostic Test

Year: 2004      Trans: A      Trace Dist: 0.334 km      Date: 10/05/07  
 Make: FORD      Fuel: G      Trace Time: 90 sec      Time: 14:45  
 Model: F150      Size:      Station: 4002  
 Cyls: 8      Analyzer: A3226

AVERAGES    HC ppm    NO ppm    CO %    CO2 %    O2 %    Hp    Inertia  
 14        0        0.00    15.3    0.1    14.9    5000

*WITH TADGER*



# Discussion & Conclusion

The purpose of this test program was to demonstrate the product for its effect on vehicle exhaust emissions.

A total of 2 dynamometer exhaust emission tests were conducted on a single vehicle with and without the Tadger product installed.

The results of this dynamometer exhaust emission test program indicated that the Tadger is effective in reducing emissions at 25 km/h.

