

INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle BMW 523SE
 License #: X617 GBK
 Fuel: Gasoline



Test Performed by: UK Emissions Testing Facility, Liverpool, England
 Client: Individual

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	9.00	0.007
Measurement After Cataclean	0.00	0.008
% Change	100%	12%

MEASURED VALUES	
RPM	[1/min]: 0
CO	[%vol]: 0.007
CO2	[%vol]: 15.32
HC	[ppm vol]: 9
O2	[%vol]: 0.09
NOx	[ppm vol]: ----
CO cor	[%vol]: 0.007
Lambda	[-]: 1.003
Temperature	[°C]: 17

MEASURED VALUES	
RPM	[1/min]: 0
CO	[%vol]: 0.008
CO2	[%vol]: 15.33
HC	[ppm vol]: 0
O2	[%vol]: 0.02
NOx	[ppm vol]: ----
CO cor	[%vol]: 0.008
Lambda	[-]: 1.000
Temperature	[°C]: 16



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Audi 1800 Turbo Avant
 License #: P758LVU
 Fuel: Gasoline



Test Performed by: UK Emissions Testing Facility, Liverpool, England
 Client: Individual

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	9.00	0.007
Measurement After Cataclean	0.00	0.008
% Change	100%	12%

MEASURED VALUES		
RPM	[1/min]:	0
CO	[%vol]:	0.007
CO2	[%vol]:	15.32
HC	[ppm vol]:	9
O2	[%vol]:	0.09
NOx	[ppm vol]:	----
CO cor	[%vol]:	0.007
Lambda	[-]:	1.003
Temperature	[°C]:	17

MEASURED VALUES		
RPM	[1/min]:	0
CO	[%vol]:	0.008
CO2	[%vol]:	15.33
HC	[ppm vol]:	0
O2	[%vol]:	0.02
NOx	[ppm vol]:	----
CO cor	[%vol]:	0.008
Lambda	[-]:	1.000
Temperature	[°C]:	16



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Audi A4 19 TD
License #: DG 52 SBX
Fuel: Diesel



Test Performed by: UK Emissions Testing Facility, Liverpool, England
Client: Individual

TEST RESULTS	Diesel Smoke Opacity Test
Measurement Prior to Cataclean	1.78
Measurement After Cataclean	0.44
% Change	76%



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle: Laboratory Vehicle – Rover 220 GSI
 VIN #: SAXXWXNCGBD119871
 Fuel: Gas



Test Performed by: **NACMG / NANJING LABRATORY**
 Client: Qualifications for EU / FTC Truth in Advertising Claims



NAC MG Emissions Laboratory

TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	4.961	22.12	11.796
Measurement After Cataclean (Test 1)	6.359	23.218	11.462
Measurement After Cataclean (Test 2)	4.892	18.461	12.545
Fuel Efficiency Increase = 4%			
% Change	2%	17%	3%

Analysis Results

(dilute, auto range)	CO	CO2	T.HC	NOx	T.HC + Nox
Total Mass					
g/test	22.122	2330.2	4.981	11.708	10.787
g/mile	3.232	340.6	0.725	1.723	2.448
g/km	2.006	211.6	0.450	1.071	1.521

Test #1

Analysis Results

(dilute, auto range)	CO	CO2	T.HC	NOx	T.HC + Nox
Total Mass					
g/test	79.718	2214.1	8.349	11.482	17.821
g/mile	3.420	378.1	0.937	1.888	2.825
g/km	2.125	202.7	0.582	1.048	1.631

Test #2

Analysis Results

(dilute, auto range)	CO	CO2	T.HC	NOx	T.HC + Nox
Total Mass					
g/test	18.461	2263.4	4.892	12.545	17.437
g/mile	2.677	328.2	0.708	1.819	2.520
g/km	1.664	204.0	0.441	1.130	1.571

Test #3

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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Citroen
 License #: N/A
 Fuel: Gasoline



Test Performed by: Practical Performance Car Magazine
 Client: Editors Vehicle

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	140	0.90
Measurement After Cataclean	21	0.15
% Change	85%	84%

Onytron Gas Analyser

CATALYST (CLOSED LOOP) MOT Gas Test

RESULT	DIAGNOSIS	LIMITS
Engine oil compartment	---	---
Fast Idle Test	Fast Idle Test - Fail	106
CO Level	0.90	0.20
HC Level	140	200
Lambda	1.02	0.95 - 1.05
Overall	Overall - Fail	106
Sound Base Gas Test	---	---
Engine speed	---	---
CO Level	0.15	0.20
HC Level	21	200
Lambda	1.02	0.95 - 1.05
Overall	Overall Pass	21
Engine speed	---	---
CO Level	---	---
HC Level	---	---
Overall	Overall Pass	---

A. I know what you mean about miracle cures that come in a bottle, but we've had a product in from Cataclean that does work. It's designed to clean up valves, injectors, Lambda sensors (oxygen sensors) and cats. We've done our own test on a car that failed the MoT emissions with similar figures to your 106 and after adding a bottle and taking the car for a short drive the figures came down to 0.15% CO and 21 PPM hydrocarbons. If you want more info have a look on catacleanus.com - KL



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Fiat Marea
License #: DG 52 SBX
Fuel: Diesel



Test Performed by: UK Emissions Testing Facility, Liverpool, England
Client: Individual

TEST RESULTS

Measurement Prior to Cataclean
Measurement After Cataclean
% Change

Diesel Smoke Opacity Test
4.20
0.75
99%

```
MEASURED VALUES
No. 1 2 3 4 5 6 7 8 9 10 11 12
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ZERO DRIFT : 0.01
ESTED AT <80°C OIL TEMP.
MEAN VALUE
4.20 [m-1]
URRO
est result:
FAIL
TRAMP/SIGNATURE :
MIKE HIGGINS
```

```
MEASURED VALUES
No. 1 2 3 4 5 6 7 8 9 10 11 12
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ZERO DRIFT : 0.00
OIL TEMPERATURE: 77.2°C
MEAN VALUE
0.75 [m-1]
FAST PROC TEST
Test result:
PASS
TRAMP/SIGNATURE :
MIKE HIGGINS
```

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INDEPENDENT LABORATORY and FIELD TESTING



Vehicle 400E
 VIN #: WDBEA34E9NB759346
 Fuel: Gasoline



Test Performed by: Swede Oun / Emissions Expert /
 Genesis 5 Gas Analyzer
 Client: American Automobile Association

TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	132	0.62	289
Measurement After Cataclean	70	0.23	194
% Change	47%	63%	33%

```

CO2          13.47 %
CO           0.62 %
HC           132  ppm
O2           1.26 %
NOX          289  ppm
LAMBDA       1.04
----- END -----
    
```

```

CO2          14.26 %
CO           0.23 %
HC           70   ppm
O2           0.62 %
NOX          194  ppm
LAMBDA       1.02
----- END -----
    
```

CATACLEAN®

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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Model: Renault Twingo
 Fuel: Gasoline



Test Performed by: MTC Laboratories, Sweden
 Client: N/A – Independent Laboratory Test to meet EU /
 FTC Product Claims

TEST RESULTS	HC (PPM)	CO %
Low Idle W/O Cataclean	123.0	0.05
Low Idle With Cataclean	38.0	0.00
High Idle W/O Cataclean	226.0	2.9
High Idle With Cataclean	24.0	0.03

% Change Low Idle	69%	100%
% Change High Idle	89%	98%



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INDEPENDENT LABORATORY and FIELD TESTING

CATAACLEAN®

Vehicle: Laboratory Vehicle – Ford Focus 1.8 Diesel
 VIN #: WFOFXXWPDFYL46896
 Fuel: Diesel



Test Performed by: **NACMG / NANJING LABRATORY**
 Client: Qualifications for EU / FTC Truth in Advertising Claims



TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	0.995	6.312	4.108
Measurement After Cataclean (Test 1)	0.987	5.946	4.065
Measurement After Cataclean (Test 2)	0.914	5.629	3.940
Fuel Efficiency Increase = 4%			
% Change	9%	11%	5%

Analysis Results	CO	CO2	HC	NOx	T.HC + NOx	PM ₁₀
Total Mass	0.312	1712.0	1.995	4.108	5.103	1.2138
g/kWh	0.520	27.1	0.148	0.607	0.755	0.1975
g/kWh	0.878	166.8	0.891	0.374	0.468	0.1108
Exhaustive						
g/kWh	1.18	0.48	1.08	1.08	1.08	1.2000
g/kWh	1.078	0.168	0.168	0.168	0.168	0.2138
g/kWh	0.83	166	0.58	0.37	0.44	0.113

Test #1

Analysis Results	CO	CO2	HC	NOx	T.HC + NOx	PM ₁₀
Total Mass	0.396	1887.0	0.987	4.065	5.052	1.2141
g/kWh	0.673	24.8	0.147	0.572	0.719	0.1979
g/kWh	0.843	152.1	0.490	0.271	0.481	0.0984
Exhaustive						
g/kWh	1.10	0.58	1.08	1.08	1.08	1.2000
g/kWh	0.961	0.168	0.168	0.168	0.168	0.2138
g/kWh	0.88	160	0.58	0.37	0.48	0.113

Test #2

Analysis Results	CO	CO2	HC	NOx	T.HC + NOx	PM ₁₀
Total Mass	0.879	1640.8	0.914	3.940	4.854	1.2081
g/kWh	1.429	240.3	0.150	0.510	0.710	0.1576
g/kWh	0.818	168.2	0.486	0.301	0.444	0.0948
Exhaustive						
g/kWh	1.18	0.48	1.08	1.08	1.08	1.2000
g/kWh	0.912	0.168	0.168	0.168	0.168	0.2138
g/kWh	0.87	159	0.58	0.38	0.68	0.114

Test #3

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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Model: 1998 Crown Victoria
VIN #: 2FAFP73W9XX123814
Fuel: Gasoline



Test Performed by: Clean Air Technologies / Montana I System
Client: State of New York, County of Erie

TEST RESULTS	HC (PPM)	CO %
Low Idle W/O Cataclean	14	0.01
Low Idle With Cataclean	9.53	0.01
High Idle W/O Cataclean	18.28	0.01
High Idle With Cataclean	11.45	0.01

- Combined average reduction in emissions = 34%



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Model: 1998 Taurus Wagon
VIN #: 1FAFP58U3XA183611
Fuel: Gasoline



Test Performed by: Clean Air Technologies / Montana I System
Client: State of New York, County of Erie

TEST RESULTS	HC (PPM)	CO %
Low Idle W/O Cataclean	14	0.01
Low Idle With Cataclean	9.53	0.01
High Idle W/O Cataclean	18.28	0.01
High Idle With Cataclean	11.45	0.01

Combined average reduction in emissions = 48.5%



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Model: 1996 Chevrolet Blazer
VIN #: 1GNDDT13W6T2279825
Fuel: Gasoline



Test Performed by: Clean Air Technologies / Montana I System
Client: State of New York, County of Erie

TEST RESULTS	HC (PPM)	CO %
Low Idle W/O Cataclean	8.0	0.00
Low Idle With Cataclean	4.63	0.00
High Idle W/O Cataclean	11.45	0.00
High Idle With Cataclean	5.35	0.00

Combined average reduction in emissions = 47.5%



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Model: 2004 Chevrolet Blazer
VIN #: 1GNDDT13XO4K153650
Fuel: Gasoline



Test Performed by: Clean Air Technologies / Montana I System
Client: State of New York, County of Erie

TEST RESULTS	HC (PPM)	CO %
Low Idle W/O Cataclean	8.25	0.00
Low Idle With Cataclean	7.0	0.01
High Idle W/O Cataclean	8.09	0.00
High Idle With Cataclean	13.00	0.00

Combined average reduction in emissions = 25.5%



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Vehicle Cavalier
 VIN #: 1G1JF12TV7266246
 Fuel: Gasoline



Test Performed by: Swede Oun / Emissions Expert /
 Genesis 5 Gas Analyzer
 Client: American Automobile Association

TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	12	0.09	113
Measurement After Cataclean	8	0.01	63
% Change	33%	89%	45%

```

CO2          14.61  %
CO           0.09  %
HC           12    PPM
O2           0.37  %
NOX         113    PPM
LAMBDA      1.02
----- END -----
    
```

```

CO2          14.90  %
CO           0.01  %
HC           8     PPM
O2           0.22  %
NOX         63    PPM
LAMBDA      1.01
----- END -----
    
```

CATACLEAN®



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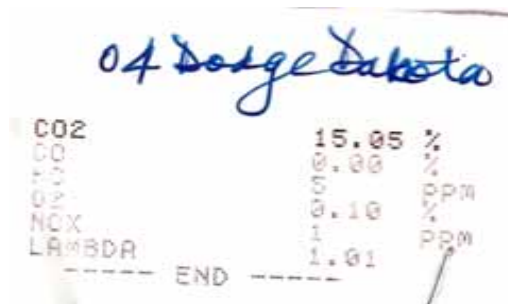
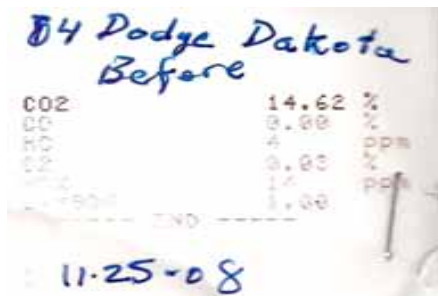
CATACLEAN®

Vehicle: 2004 Dodge Dakota
 VIN #: 1D7FL16K74S621316
 Fuel: Gasoline



Test Performed by: Swede Oun / Emissions Expert /
 Genesis 5 Gas Analyzer
 Client: State of New York, County of Henrietta

TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	4	0.00	14
Measurement After Cataclean	5	0.00	1
% Change	20%	N/C%	92%



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle: 2000 General Motors Sierra
 VIN #: 1GTGK29U2YE170675
 Fuel: Gasolin



Test Performed by: Swede Oun / Emissions Expert /
 Genesis 5 Gas Analyzer
 Client: State of New York, County of Henrietta

TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	46	0.05	317
Measurement After Cataclean	18	0.03	138
% Change	60%	40%	56%

COMPARISON OF NET TEST RESULTS: Pretest vs. Post Test.

	ASM2525 TEST				CURB IDLE TEST			
	Pretest	Post	Delta	%	Pretest	Post	Delta	%
HC	46	18	-28	-60%	24	11	-13	-54%
CO%	.05	.03	-.02	-40%	.01	.04	.03	300%
NO	317	138	-179	-56%	N/A	N/A	N/A	N/A



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle: General Motors Silverado 1500
 VIN #: 1GCEC14V32Z286224
 Fuel: Gasoline



Test Performed by: Swede Oun / Emissions Expert /
 Genesis 5 Gas Analyzer
 Client: State of New York, County of Henrietta

TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	21	0.02	79
Measurement After Cataclean	12	0.01	68
% Change	42%	50%	13%

unit 407
Before

```

CO2      14.68 %
CO       0.02 %
HC       21   ppm
O2       0.08 %
NOX     79   ppm
LAMBDA   1.00
----- END -----
    
```

407

```

CO2      14.84 %
CO       0.01 %
HC       12   ppm
O2       0.12 %
NOX     68   ppm
LAMBDA   1.06
----- END -----
after
    
```



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Model: 1994 Chrysler Jeep
 VIN #: **1J4G258Y2RC226283**
 Fuel: Gasoline



Test Performed by: Clean Air Technologies / Montana I System
 Client: Mechanic, O & K Automotive Service

TEST RESULTS	HC (PPM)	CO %
Low Idle W/O Cataclean	478.12	0.74
Low Idle With Cataclean	74.00	0.14
High Idle W/O Cataclean	240.44	0.57
High Idle With Cataclean	41.27	0.04

% Change Low Idle	84%	81%
% Change High Idle	82%	92%



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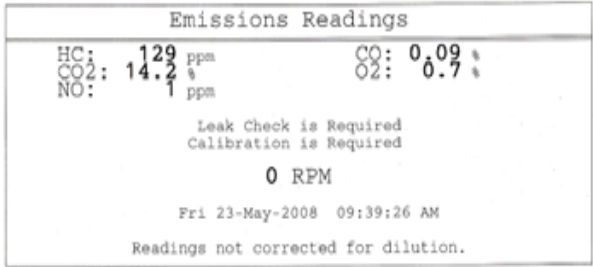
CATACLEAN®

Vehicle Chrysler 300 Limousine
 VIN #: N/A
 Fuel: Gasoline



Test Performed by: New York State Emissions Facility, Long Island City
 Client: Driver, Prime Time Limousine

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	129	0.09
Measurement After Cataclean	20	0.00
% Change	84%	100%



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle: Laboratory Vehicle – Daihatsu Perodua
 VIN #: PM21201S002122295
 Fuel: Gas



Test Performed by: **NACMG / NANJING LABRATORY**
 Client: Qualifications for EU / FTC Truth in Advertising Claims



NAC MG Emissions Laboratory

TEST RESULTS	HC (PPM)	CO %	NOX
Measurement Prior to Cataclean	8.664	35.224	9.178
Measurement After Cataclean (Test 1)	8.031	36.561	9.075
Measurement After Cataclean (Test 2)	7.884	34.466	8.692
% Change	10%	3%	6%

Analysis Results					
(dilute, auto range)	CO	CO2	T.HC	NOx	T.HC + Nox
Total Mass					
g/hst	35.224	980.5	8.664	9.178	17.842
g/mile	5.134	140.0	1.203	1.388	2.601
g/km	3.190	87.6	0.756	0.881	1.616

Test #1

Analysis Results					
(dilute, auto range)	CO	CO2	T.HC	NOx	T.HC + Nox
Total Mass					
g/hst	36.561	998.6	8.031	9.075	17.107
g/mile	5.351	141.5	1.175	1.308	2.504
g/km	3.325	87.9	0.730	0.825	1.666

Test #2

Analysis Results					
(dilute, auto range)	CO	CO2	T.HC	NOx	T.HC + Nox
Total Mass					
g/hst	34.466	951.2	7.884	8.692	16.577
g/mile	5.009	141.4	1.192	1.290	2.402
g/km	3.130	87.8	0.718	0.799	1.504

Test #3

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LIKE NOTHING ELSE!



INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle: Honda Civic
License #: **W551PCA**
Fuel: Gasoline



Test Performed by: UK Emissions Testing Facility, Liverpool, England
Client: Individual

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	51.00	0.071
Measurement After Cataclean	1.00	0.00
% Change	98%	100%

MEASURED VALUES	
RPM	[r/min]: 700
CO	[%vol]: 0.071
CO2	[%vol]: 14.50
HC	[ppm vol]: 51
O2	[%vol]: 0.00
NOx	[ppm vol]: 100
CO cor	[%vol]: 0.071
Lambda	[-]: 0.995
Temperature	[°C]: 82

RPM	[r/min]: 700
CO	[%vol]: 0.000
CO2	[%vol]: 14.50
HC	[ppm vol]: 1
O2	[%vol]: 0.00
NOx	[ppm vol]: 100
CO cor	[%vol]: 0.000
Lambda	[-]: 0.999
Temperature	[°C]: 89

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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN[®]

Vehicle: Honda Civic
License #: **W551PCA**
Fuel: Gasoline



Test Performed by: UK Emissions Testing Facility, Liverpool, England
Client: Individual

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	51.00	0.071
Measurement After Cataclean	1.00	0.00
% Change	98%	100%

MEASURED VALUES	
RPM	[r/min]: 700
CO	[%vol]: 0.071
CO2	[%vol]: 14.50
HC	[ppm vol]: 51
O2	[%vol]: 0.00
NOx	[ppm vol]: 100
CO cor	[%vol]: 0.071
Lambda	[-]: 0.995
Temperature	[°C]: 82

RPM	[r/min]: 700
CO	[%vol]: 0.000
CO2	[%vol]: 14.50
HC	[ppm vol]: 1
O2	[%vol]: 0.00
NOx	[ppm vol]: 100
CO cor	[%vol]: 0.000
Lambda	[-]: 0.999
Temperature	[°C]: 89

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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Mazda Protégé
VIN #: JM1BC1416W0236637
Fuel: Gasoline



Test Performed by: Ontario Drive Clean, The Partsman
Client: Individual

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	155	0.50
Measurement After Cataclean	84	0.48
% Change	46%	4%



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INDEPENDENT LABORATORY and FIELD TESTING

CATACLEAN®

Vehicle Toyota Celica
 License #: 3087Ah
 Fuel: Gasoline



Test Performed by: UK Emissions Testing Facility, Regal Motors,
 Liverpool, England
 Client: Individual

TEST RESULTS	HC (PPM)	CO %
Measurement Prior to Cataclean	114	0.455
Measurement After Cataclean	24	0.008
% Change	79%	98%



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