



# VEHICLE INSPECTION REPORT

10271856

## STATE OF COLORADO

### RESULTS

Overall Result	Emissions	Evaporative Systems	Equipment Inspection	Smoke	CFC's	Recall	OBD Codes	Total Amount Paid
FAIL	FAIL	PASS	PASS	PASS	N/A		PASS	0.00

### VEHICLE INFORMATION

VIN	STATE	LICENSE PLATE	YEAR	MAKE	ODOMETER	
2G1FP22G022159784	CO	284EKC	2002	CHEV	97848	
PROGRAM	INSPECTOR #	LANE #	STATION #	START TIME	END TIME	DATE
E	10786	03	5001E	16:05:38	16:25:21	24-FEB-2012

### CONSUMER INFORMATION

Your vehicle has failed to comply with required State regulations for emissions inspection. All items listed as failure must be addressed prior to your next inspection. See the box titled "IF YOUR VEHICLE FAILED THE INSPECTION" for further instructions. FOR QUESTIONS, COMMENTS, AND COMPLAINTS CONTACT ENVIROTEST AT 303-456-7090 OR THE DEPARTMENT OF REVENUE AT 303-205-5603. AND IF LOCATED OUTSIDE THE DENVER METRO AREA, CALL 888-200-8827

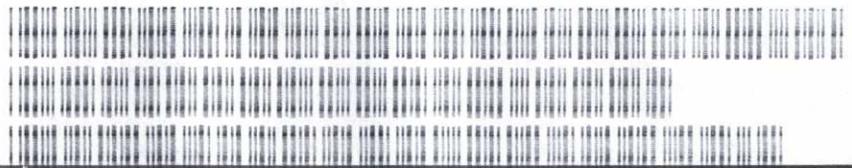
### EMISSIONS TEST INFORMATION

### EVAPORATIVE SYSTEMS TEST INFORMATION

READINGS	LIMITS	RESULTS	PRESSURE	PURGE	FUEL CAP RESULTS
HC GPM	3.0364	1.2000	FAIL	UNITS	INCHES/H <sub>2</sub> O
CO GPM	8.9335	15.0000	PASS	LIMITS	
CO2 GPM	417.9744			READINGS	6.00
NOx GPM	0.5792	1.5000	PASS	RESULTS	PASS

### EQUIPMENT INSPECTION INFORMATION

- Catalytic Converter - PASS
- Fuel Filler Restrictor - N/A
- Air Injection System - N/A
- Oxygen Sensor - PASS
- Check Engine Light - PASS



### IF YOUR VEHICLE PASSED OR WAS ISSUED A WAIVER

Your vehicle inspection results are shown on this "VEHICLE INSPECTION REPORT". If you are renewing your registration by mail, follow the instructions regarding the renewal process located on the back side of your renewal notice. If you are renewing your registration in person, the Certificate of Emissions Control must accompany all supporting documents at the time of registration. If the Certificate of Emissions Control is lost, a new inspection is required at the owner's/operator's expense.

### IF YOUR VEHICLE FAILED THE INSPECTION

Your vehicle inspection results are shown on this "VEHICLE INSPECTION REPORT". If your vehicle failed its first inspection, you are entitled to one free reinspection within 10 calendar days if returned to the same independent inspection station. If the first inspection was performed at an Envirotest center, the reinspection can be performed at any one of Envirotest's centers. The information recorded on this "VEHICLE INSPECTION REPORT" is extremely valuable to a repair technician when having your vehicle repaired. The "VEHICLE REPAIR FORM", (VRF), located on the back **must** be completed by the person performing the repairs. The VRF **must also** accompany the vehicle at the time of reinspection. If your vehicle fails the reinspection, you may be entitled to a waiver. Waiver eligibility information is available at the inspection stations or by calling the Department of Revenue at (303) 205-5603.

"QUALITY EMISSIONS REPAIRS ALWAYS BEGIN WITH A GOOD DIAGNOSIS BY A QUALIFIED REPAIR TECHNICIAN."

### HIGH HC READINGS

### HIGH CO READINGS

### HIGH NOx READINGS

HIGH HC READINGS ARE A RESULT OF UNBURNED OR PARTIALLY BURNED FUEL.

HIGH CO READINGS OCCUR WHEN THE AIR/FUEL MIXTURE IS TOO RICH.

HIGH NOx READINGS ARE THE RESULT OF HIGH COMBUSTION TEMPERATURES AND/OR HIGH COMBUSTION PRESSURES. (ENHANCED AREA ONLY)

TST: 2 FEE: 0.00 LAT: 0.00 TAX: 0.00 DIS: 0.00  
 CSH: 0.00 CHK: 0.00 CDT: 0.00 CPN: 0.00  
 IN2: 13268 IN3: 13085 CYL: 8 RMON: 02 RYR: 2012  
 GVW: NVW: 3433 DSP: 5.7 FUL: GAS  
 TVFY: 2FPC RVFY: E588 VVfy: CC15  
 OCT: 04 REC: 0 MAR: CHEV MDL: CAMARO  
 TRC: N WMB: 101.1 DEX: Y ECH: N EYR:  
 VTY: P TRA: M DRV: R ABS: Y 2STK: N  
 ERES: F ORES: P PRES: P URES: I TWVfy: 41D3 RID: RCNT:0  
 Diagnostic ID Number: 00 1032 40 220 1214 5 325 44601

### INSPECTION TYPE

XXXXXXX

10271856

### DATE

XXXXXXXXXX

### FACILITY #

XXXX

### INSPECTOR #

XXXXX

### LICENSE #

XXXXXX

### MAKE

XXXXX

### MODEL

XXXXXXXXXX

### YEAR

XXXX

### VIN #

XXXXXXXXXXXXXXXXXXXX

PLEASE REMOVE THIS PORTION AND INCLUDE IT WITH YOUR RENEWAL CARD AND REGISTRATION PAYMENT. DO NOT STAPLE THIS DOCUMENT OR PAYMENT TO YOUR RENEWAL CARD.

# DIAGNOSTIC TRACE REPORT

VIN	LANE	STATION	TEST DATE / TIME
2G1FP22G022159784	03	0001	24-FEB-2012 16:05:38

## DIAGNOSTIC INFORMATION

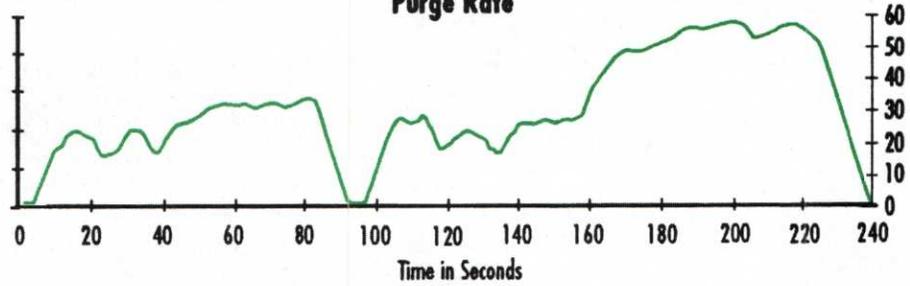
The following information can be interpreted by a trained technician. It is provided for informational purposes only and may not indicate an actual vehicle problem. No repairs should be performed based solely on this information.

### Emissions Comparison to Normal Vehicles of Similar Model:

Your Vehicle  
Speed

Purge Rate  
Liters per Minute

#### Purge Rate

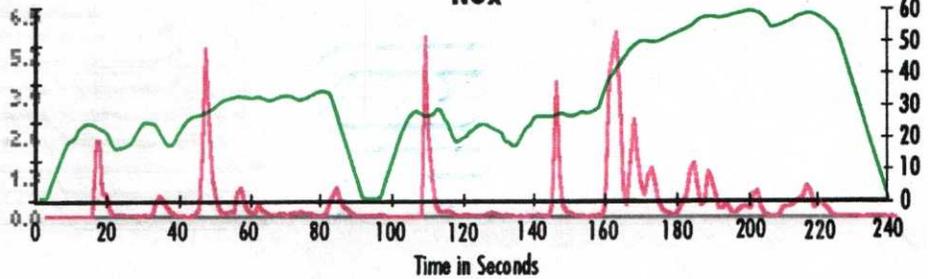


Speed  
Miles per Hour

Normal Vehicle  
Your Vehicle  
Speed

Emmision  
Grams per Mile

#### NOx

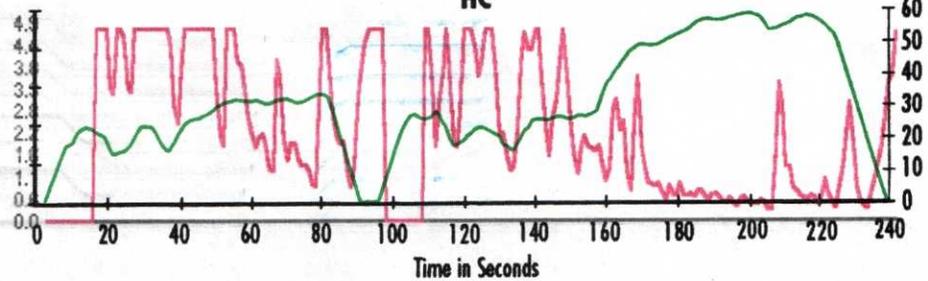


Speed  
Miles per Hour

Normal Vehicle  
Your Vehicle  
Speed

Emmision  
Grams per Mile

#### HC

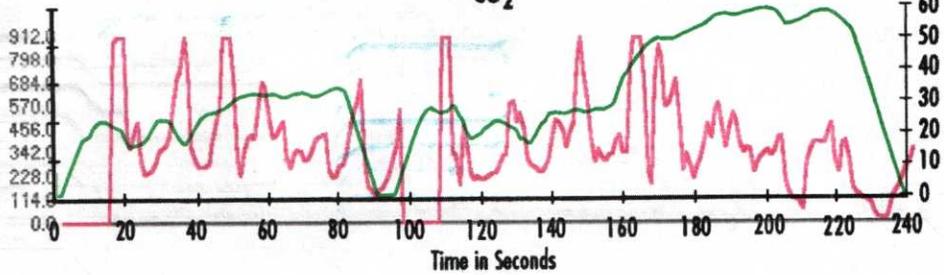


Speed  
Miles per Hour

Normal Vehicle  
Your Vehicle  
Speed

Emmision  
Grams per Mile

#### CO<sub>2</sub>

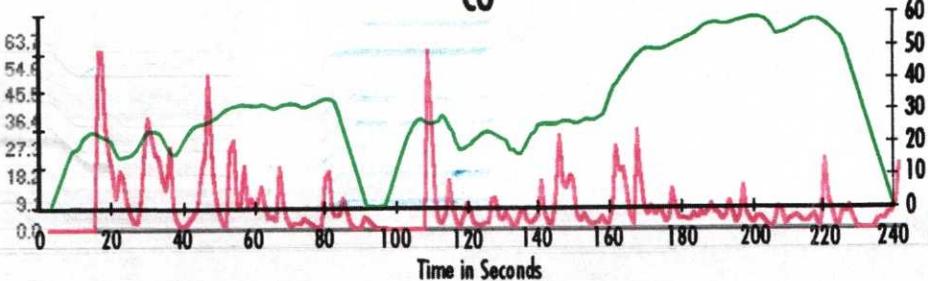


Speed  
Miles per Hour

Normal Vehicle  
Your Vehicle  
Speed

Emmision  
Grams per Mile

#### CO



Speed  
Miles per Hour

# DIAGNOSTIC SENSOR REPORT

VIN	LANE	STATION	TEST DATE / TIME
2G1FP22G022159784	03	0001	24-FEB-2012 16:05:38

It is intended that the following information be used in conjunction with the "VEHICLE INSPECTION REPORT" for this vehicle.

## DIAGNOSTIC INFORMATION

The following information can be interpreted by a trained technician. It is provided for informational purposes only, and may not indicate an actual vehicle problem. No repairs should be performed based solely on this information. This information was obtained by querying your vehicles on board computer (OBD).

SENSOR DESCRIPTION	UNITS	SEC=0092	SEC=0120	SEC=0146	SEC=0160	SEC=0195	SEC=0224
Engine Speed	RPM	1250.75	1139.25	1360.00	1466.00	2201.00	1508.50
Abs Throttle Pos.	%	7.4510	4.7059	2.3529	20.3922	1.5686	0.3922
Calc. Load Value	%	2.7451	3.1373	4.7059	23.1373	10.5882	3.5294
Eng. Coolant Temp.	deg C	94.0000	93.0000	91.0000	90.0000	95.0000	94.0000
Mass. Air Flow Rate	gm/s	15.6700	13.9600	10.1100	41.0300	28.1900	7.5200
Intake Air Temp.	deg C	18.0000	20.0000	21.0000	20.0000	17.0000	20.0000
Vehicle Speed	Km/h	0.0000	36.0000	42.0000	65.0000	94.0000	62.0000
O2S Voltage B1, S1	VDC	0.395000	0.775000	0.810000	0.650000	0.085000	0.850000
O2S STFT B1, S1	%	-3.124	-1.562	-0.781	-3.906	10.157	-3.906
O2S Voltage B1, S2	VDC	0.760000	0.795000	0.805000	0.755000	0.810000	0.815000
O2S Voltage B2, S1	VDC	0.140000	0.880000	0.500000	0.605000	0.930000	0.830000
O2S STFT B2, S1	%	3.126	7.032	-7.031	4.688	7.032	-3.124
S.T. Fuel Trim B1	%	-0.781	6.251	-5.468	2.344	-4.687	0.001
L.T. Fuel Trim B1	%	3.126	-4.687	-4.687	-5.468	-3.906	-2.343
S.T. Fuel Trim B2	%	-1.562	3.907	-10.156	9.376	0.001	0.001
L.T. Fuel Trim B2	%	2.344	-7.812	-4.687	-3.906	-1.562	-0.781

## UNDERSTANDING YOUR VEHICLE INSPECTION REPORT

Your vehicle's inspection results are shown on the "VEHICLE INSPECTION REPORT". If the final result is "PASS", proceed with your vehicle's licensing process. If the result is "FAIL", your vehicle must be repaired, retested and either pass a reinspection or qualify for a waiver, before licensing.

The inspection performed on your vehicle determined whether an excessive level of harmful pollutants are being emitted into the atmosphere. The cause of excess emissions may not be exactly identified by the inspection process alone or by personnel at the inspection center. A qualified diagnostic technician should be consulted in order to have the exact cause(s) identified and repaired. The "Repair Facilities" listing will assist you in finding a technician.

### GENERAL REQUIREMENTS FOR A WAIVER

If your vehicle has failed two inspections and you have completed repairs associated with the cause of the failure(s), and the expenditure exceeds \$715, (amount adjusted annually by the Consumer Price Index), your vehicle may be eligible for a waiver. To apply for a waiver, contact the Department of Revenue at 303.205.5603. Keep in mind that to be eligible, your vehicle must pass a visual inspection of all originally installed emissions control components as well as all claimed repairs and the associated receipts. Vehicles that emit visible smoke will not be eligible for a waiver. All repairs covered under a manufacturer's warranty or recall must be completed before a waiver can be issued.

#### When applying for a waiver, be certain to bring the following items with you:

1. The vehicle for which a waiver is requested.
2. The completed "Vehicle Repair Form".
3. The "Vehicle Inspection Report Form".
4. All waiver associated repair receipts.

**Without these items a waiver cannot be issued.**

### GENERAL DIAGNOSTIC INFORMATION

This section provides common causes for emissions failures listed on the "VEHICLE INSPECTION REPORT". This information is provided as assistance when repairing a vehicle due to an emissions failure. There are factors not listed here that may effect excess emissions and the repairs necessary to remedy them. This information is provided only to give a starting point in the repair process. These are guidelines only. For further information we suggest you see an automotive technician of your choice.

#### COMMON CAUSES OF EXCESSIVE EMISSIONS

<b>HIGH HC HYDROCARBONS</b>	<ul style="list-style-type: none"> <li>▪ Vacuum leaks</li> <li>▪ Ignition system malfunction</li> <li>▪ Faulty computer controls</li> <li>▪ Air injection system failure</li> </ul>	<ul style="list-style-type: none"> <li>▪ Incorrect engine timing</li> <li>▪ Incorrect engine idle speed</li> <li>▪ Improper fuel injector operation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Internal engine problem</li> <li>▪ Incorrect carburetor setting/adjustment</li> <li>▪ Inoperative/missing catalytic converter</li> </ul>
<b>HIGH CO CARBON MONOXIDE</b>	<ul style="list-style-type: none"> <li>▪ Air cleaner, choke or carb. malfunction</li> <li>▪ Fuel injector(s) dirty or sticking</li> <li>▪ Improper fuel injector operation</li> <li>▪ Air injection system failure</li> </ul>	<ul style="list-style-type: none"> <li>▪ Dirty air cleaner, choke or carburetor</li> <li>▪ Carburetor float level misadjusted</li> <li>▪ Incorrect carburetor settings/adjustments</li> </ul>	<ul style="list-style-type: none"> <li>▪ Inoperative/missing catalytic converter</li> <li>▪ Defective evaporative system</li> <li>▪ Faulty computer controls</li> </ul>
<b>HIGH NOx OXIDES OF NITROGEN</b>	<ul style="list-style-type: none"> <li>▪ Vacuum leaks</li> <li>▪ Incorrect engine timing</li> <li>▪ Inoperative/missing catalytic converter</li> </ul>	<ul style="list-style-type: none"> <li>▪ Faulty computer controls</li> <li>▪ Incorrect carburetor settings/adjustments</li> <li>▪ Faulty EGR system</li> </ul>	<ul style="list-style-type: none"> <li>▪ Excessive spark advance</li> <li>▪ Faulty thermostatic air cleaner system</li> <li>▪ Engine deposits</li> </ul>

#### COMMON CAUSES OF EMISSIONS COMPONENT FAILURES

The following items must be repaired or replaced to qualify for a waiver.

<b>CATALYTIC CONVERTER</b>	<ul style="list-style-type: none"> <li>▪ Missing</li> <li>▪ Disconnected</li> </ul>	<ul style="list-style-type: none"> <li>▪ Incorrect style/type</li> <li>▪ Damaged</li> </ul>	
<b>FUEL FILLER RESTRICTOR</b>	<ul style="list-style-type: none"> <li>▪ Missing</li> <li>▪ Enlarged past tolerance</li> </ul>	<ul style="list-style-type: none"> <li>▪ Incorrect style/type</li> <li>▪ Damaged</li> </ul>	
<b>OXYGEN SENSOR SYSTEM</b>	<ul style="list-style-type: none"> <li>▪ Missing</li> <li>▪ Oxygen sensor wire(s) disconnected</li> </ul>	<ul style="list-style-type: none"> <li>▪ Damaged/disconnected feedback components</li> </ul>	<ul style="list-style-type: none"> <li>▪ Incorrect style/type</li> <li>▪ Damaged sensor/wires</li> </ul>
<b>"CHECK ENGINE" DASH INDICATOR LIGHT</b>	<ul style="list-style-type: none"> <li>▪ Light stays on with engine running</li> <li>▪ Light does not operate as manufactured</li> </ul>		<ul style="list-style-type: none"> <li>▪ Light comes on during an inspection (Intermittent)</li> </ul>
<b>AIS SYSTEM</b>	<ul style="list-style-type: none"> <li>▪ Missing</li> <li>▪ Hoses disconnected</li> </ul>	<ul style="list-style-type: none"> <li>▪ Incorrect style/type</li> <li>▪ Damaged</li> </ul>	<ul style="list-style-type: none"> <li>▪ Pump belt missing</li> <li>▪ Diverter valve problem</li> </ul>

#### COMMON CAUSES OF RECALL FAILURES

<b>RECALL</b>	<ul style="list-style-type: none"> <li>▪ Not having completed repairs for an emissions recall(s)</li> <li>▪ Not having completed repairs documented with the manufacturer</li> </ul>
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#### COMMON CAUSES OF EVAPORATIVE SYSTEMS FAILURES

<b>PURGE</b>	<ul style="list-style-type: none"> <li>▪ Vacuum problem</li> <li>▪ Blocked canister</li> </ul>	<ul style="list-style-type: none"> <li>▪ Disconnected hoses/lines</li> <li>▪ Disconnected control valves/solenoids</li> </ul>	<ul style="list-style-type: none"> <li>▪ Missing/damaged canister</li> <li>▪ Faulty control valve(s)</li> </ul>
<b>PRESSURE</b>	<ul style="list-style-type: none"> <li>▪ Leaking fuel tank</li> <li>▪ Deteriorated leaking hoses/lines</li> <li>▪ Disconnected hoses/lines</li> </ul>	<ul style="list-style-type: none"> <li>▪ Disconnected control valves/solenoids</li> <li>▪ Blocked hoses/lines</li> </ul>	<ul style="list-style-type: none"> <li>▪ Improper fuel cap seal</li> <li>▪ Faulty control valve(s)</li> </ul>
<b>FUEL CAP</b>	<ul style="list-style-type: none"> <li>▪ Missing</li> <li>▪ Damaged</li> </ul>		<ul style="list-style-type: none"> <li>▪ Incorrect style/type</li> <li>▪ Improper fuel cap seal</li> </ul>

#### COMMON CAUSES OF A SMOKE FAILURE

<b>SMOKE</b>	<ul style="list-style-type: none"> <li>▪ Internal engine wear</li> </ul>	<ul style="list-style-type: none"> <li>▪ Excessively rich mixture</li> </ul>
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#### COMMON CAUSES OF AN OBD FAILURE

<b>OBD CODES</b>	<ul style="list-style-type: none"> <li>▪ There are any fault codes present, when querying the vehicle's on-board computer system</li> <li>▪ If the OBD connector is missing, damaged or tampered with</li> </ul>
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#### COMMON CAUSE OF A CFC FAILURE

This section will not cause a vehicle to fail an emissions inspection. It is advisory only.

<b>CFC's</b>	<ul style="list-style-type: none"> <li>▪ When any evidence is detected that the air conditioning system has a leak of it's refrigerant</li> </ul>
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