

# Oregon Department of Environmental Quality

## Session 7 Implementation Preparation

Presented by: Mickey Hunt, Bob Boland, Brian Larsen: Vehicle Inspections CARS/Fleet Program



# Implementation Preparation

- Tool Requirements
- Inspector Training
- Repair Industry Coordination
- Certificate and Fail Form Design
- Customer Logistics
- OBD Safety
- Voluntary Testing
- Bar 31-OBD Comparisons
- Diagnostic Link Connector Data

# Tool Requirements

- Small Hand Tools
- Mirrors
- Flashlights

# Inspector Training

- Inspector Awareness and Preparation
- Familiarization of DLC Location
- Testing Safeguards

# Repair Industry Coordination

- Repair Facility Visits
- Developing Dialogue
- Training Interest Explored
- Repair Industry Communication
- Involvement With Recognized Shop Program

# Certificate and Fail Form Design

- Certificate Evolution



# EMISSION TEST REPORT

1-877-476-0583  
503-229-6235  
1240 SE 12th Avenue  
Portland, OR 97214

## VEHICLE INSPECTION PROGRAM

INSPECTION INFORMATION									
LICENSE	VEHICLE I.D. NUMBER	YEAR	MAKE	TYPE	FINAL RESULTS				
WHH347	1NXBR86E7U2651815	1997	TOYOT	P	PASS				

VEHICLE INFORMATION				INSPECTION STATION INFORMATION							
ODOMETER X1000	FUEL TYPE	TEST TYPE	PAYMENT AMOUNT	INSP. I.D.	STATION I.D.	LANE NO.	MO. DAY	YR.	HR.	MIN	
26	G	1	21.00	DBRES	02	3	07 23	99	17	30	

EMISSION TEST RESULTS					MISSING/ALTERED EQUIPMENT				
STANDARDS:	HC PPM MAX	CO PPM MAX	CO+CO2 (%) MIN	IDLE SPEED (RPM)	RESULTS:	PASS (P)	FAIL (F)	NOT APPLICABLE (N)	
INITIAL TEST									
1st IDLE EMISSIONS	0	0.00	14.7	748	P	PCV	Positive Crankcase Ventilation		
2500 RPM EMISSIONS	0	0.00	15.0	2441	T	TAC	Thermostatic Air Cleaner		
2nd IDLE EMISSIONS					T	AIS	Air Injection System		
DUAL FUEL/RESTART TEST					T	EVP	Evaporative Emission System		
1st IDLE EMISSIONS					T	FR	Fill Pipe Restrictor		
2500 RPM EMISSIONS					T	EGR	Exhaust Gas Recirculation		
2nd IDLE EMISSIONS					T	SPK	Spark Controls		
					T	CC	Computer Controls		
					T	CAT	Catalytic Converter		
					T	VAC	Vacuum Line		

NOISE LEVEL DECIBEL \_\_\_\_\_ dBA      OPACITY LEVEL \_\_\_\_\_ %

COMMENTS: \_\_\_\_\_

NOTE: Inspectors are prohibited from offering diagnostic information related to the vehicle readings or from making any estimates or recommendations about repairs or repair facilities. A vehicle with an inaccessible exhaust system will be rejected from the test area.

PLEASE TAKE THE TIME TO READ THIS REPORT CAREFULLY.  
DO NOT DESTROY OR DISPOSE OF THIS REPORT. YOU WILL NEED IT TO REGISTER YOUR VEHICLE.

If "Pass" is printed under Final Results and a fee is paid, this report becomes a Certificate of Compliance, valid for three months. It must be presented or mailed to DMV with your payment and registration applications to obtain or renew your vehicle registration. This must be done before the expiration shown below.  
DO NOT STAPLE THIS FORM TO REGISTRATION APPLICATION.

EXPIRATION DATE: 10/21/1999  
CERTIFICATION NUMBER: 023990723016

DEQ VPP 8402



# EMISSION TEST REPORT

## VEHICLE INSPECTION PROGRAM

VEHICLE EMISSIONS QUESTIONS: Call 503-229-6235

STATION INFORMATION	VEHICLE INFORMATION	EMISSIONS CONTROL SYSTEMS
STATION: 15 LANE: 5 DATE: 07/23/99 TIME: 10:31:56 INSP ID: MMORE TEST#: 1	VIN: 1FTCR10T0KUC69694 MAKE: FORD MODEL: RANGER YEAR: 1989 SIZE: 2900 ODOM: 0	PLATE: QRM164 N/A N/A N/A N/A N/A

TAILPIPE EMISSION TEST RESULTS										
BAR31 Standard	THC	g/mi	MAX	Nox	g/mi	CO	g/mi	MAX	CO2	g/mi
Readings:	0.99	1.50	16.8	531.8	15.80	15.50				
Results:	PASS	PASS	PASS	N/A						

**P A S S**  
*Repair Paper Sam*

Item#: 155072399103156      FORM NUMBER: 618499  
Vers#: 9809

**CERTIFICATE OF COMPLIANCE**  
DO NOT DESTROY OR DISPOSE OF THIS CERTIFICATE

VIN: 1FTCR10T0KUC69694      CERT. EXPIRATION DATE: 10/21/99  
PLATE: QRM164  
YEAR: 1989  
MAKE: FORD  
MODEL: RANGER

Item#: 155072399103156      FORM NUMBER: 618499

If vehicle PASSED, THE OWNER MUST, AT THE TIME OF VEHICLE REGISTRATION OR RENEWAL, SUBMIT TO DMV this Certificate of Compliance as proof of emissions program compliance.

ANY ATTEMPT TO ALTER, FABRICATE, OR DUPLICATE THIS CERTIFICATE OF COMPLIANCE CONSTITUTES FRAUD AND IS PUNISHABLE BY A FINE AND IMPRISONMENT.

STATION INFORMATION	VEHICLE INFORMATION	EMISSIONS CONTROL SYSTEMS
TAILPIPE EMISSION TEST RESULTS		
CERTIFICATE NUMBER:		FORM NUMBER: 000010

DETACH LOWER PORTION AND SUBMIT TO DMV AT TIME OF REGISTRATION OR RENEWAL

**CERTIFICATE OF COMPLIANCE**  
DO NOT DESTROY OR DISPOSE OF THIS CERTIFICATE

State of Oregon Department of Environmental Quality

CERTIFICATE NUMBER:      FORM NUMBER: 000010

If the vehicle PASSED, THE OWNER MUST, AT THE TIME OF VEHICLE REGISTRATION OR RENEWAL, SUBMIT TO DMV this Certificate of Compliance as proof of emissions program compliance.

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STATION INFORMATION	VEHICLE INFORMATION	EMISSIONS CONTROL SYSTEMS
TAILPIPE EMISSION TEST RESULTS		
CERTIFICATE NUMBER:		FORM NUMBER: 000010

# Certificate and Fail Form Design

- Certificate Security



State of Oregon Department of Environmental Quality

# EMISSION TEST REPORT

## VEHICLE INSPECTION PROGRAM

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Fourdrinier  
Watermarked Paper

STATION INFORMATION	VEHICLE INFORMATION	EMISSIONS CONTROL SYSTEMS
TAILPIPE EMISSION TEST RESULTS		
CERTIFICATE NUMBER:		FORM NUMBER: 000010

DETACH LOWER PORTION AND SUBMIT TO DMV AT TIME OF REGISTRATION OR RENEWAL

### CERTIFICATE OF COMPLIANCE

DO NOT DESTROY OR DISPOSE OF THIS CERTIFICATE



Thermochromic Ink

CERTIFICATE NUMBER:

FORM NUMBER:

000010

Penetrating Ink

If the vehicle PASSED, THE OWNER MUST, AT THE TIME OF VEHICLE REGISTRATION OR RENEWAL, SUBMIT TO DMV this Certificate of Compliance as proof of emissions program compliance.

ANY ATTEMPT TO ALTER, FABRICATE, OR DUPLICATE THIS CERTIFICATE OF COMPLIANCE CONSTITUTES FRAUD AND IS PUNISHABLE BY A FINE AND IMPRISONMENT

STATION INFORMATION	VEHICLE INFORMATION	EMISSIONS CONTROL SYSTEMS
TAILPIPE EMISSION TEST RESULTS		
CERTIFICATE NUMBER:		FORM NUMBER: 000010

# Certificate and Fail Form Design

- Integration of OBD Results



# OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY VEHICLE INSPECTION PROGRAM

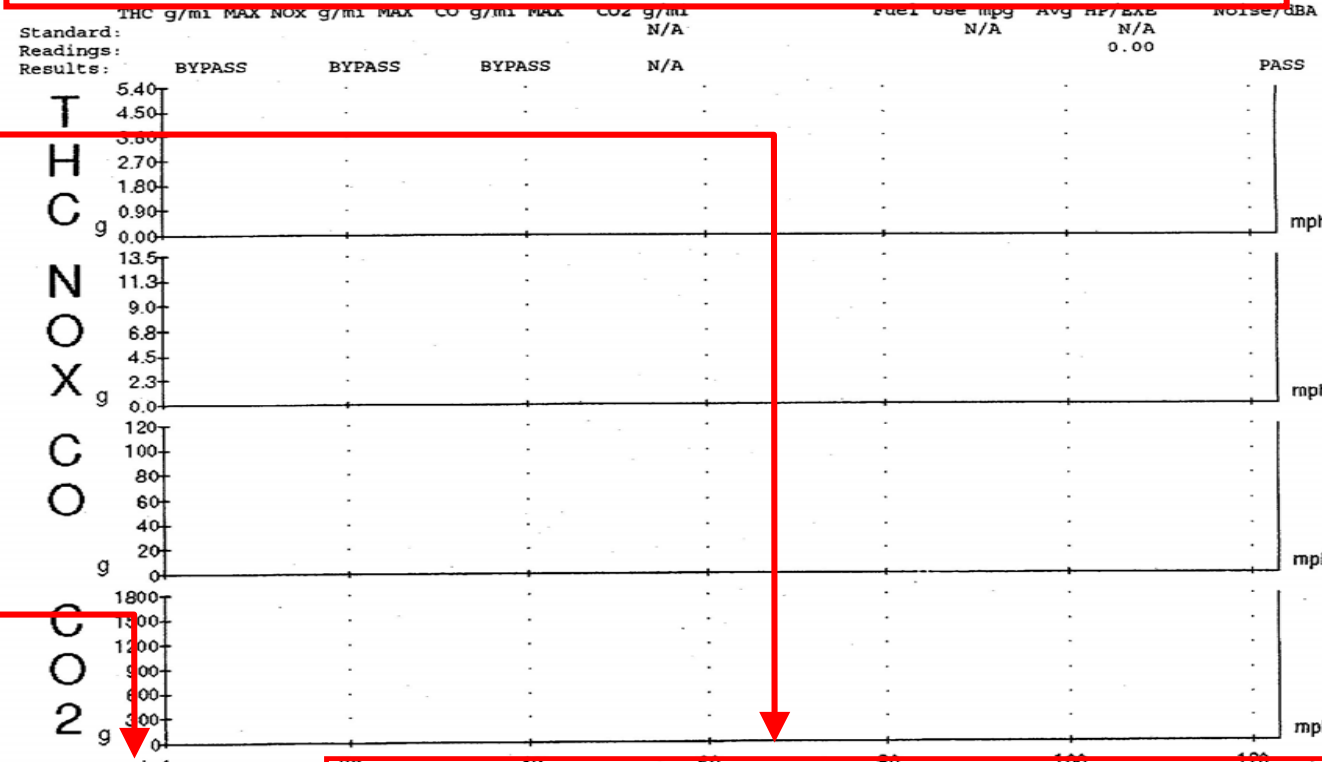
Inspection Results

Station: Bypass      VISIBLE EXH: Pass      OVERALL RESULT: **FAIL**

Vehicle Information

STATION: 12      VIN: 1FALP62W5TH102029      PLATE:      EPA #: 961122  
 LANE: 6      MAKE: FORD      Item#: 126012401183917  
 DATE: 01/24/01      YEAR: 1996      TRANS: A      CYLS: 8      VERS#: 0007  
 INSP 1: DETHE      SIZE: 4600      FUEL: G      GVWR: 4000      CAP: G  
 INSP 2: SYOUG      ODOM: 78      BODY: 1      INERT: 4000      TEST#: 1  
 INSP 3: DADAM

Readiness Status



MIL Status

**OBID Test Results**

OBID:	FAIL	Misfire:	Ready	Catalyst Heat:	N/A	O2 Sensor:	Ready
MIL:	On	Fuel System:	Ready	Evaporative:	N/A	O2 Heater:	Ready
engine off:	On	Comprehensive:	Ready	2nd Air:	N/A	EGR:	Ready
engine on:	Off	Catalyst:	Ready	AC:	N/A	DLC:	Pass

Diagnostic Trouble Codes

**Diagnostic Trouble Code(s):**  
 P0171 System too Lean (Bank 1)      P0172 System too Rich (Bank 1)  
 P0174 System too Lean (Bank 2)      P0175 System too Rich (Bank 2)  
 Note: Diagnostic Trouble Codes need to be verified by your repair technician.

# Certificate and Fail Form Design

- Facility Feedback Information



# Customer Logistics

- Kiosk Handouts
- Voluntary Testing
- Dispelling Myths
- Customer Q & A

# OBD Safety

- Premises Safety Reps
- Phone Cord Style DLC Cable
- Customer Waiting Area
- Floor Modifications

# Voluntary Testing

- Designated OBD Lanes
- Data Comparison Testing
- Developing OBD Test Criteria

# Bar 31-OBD Comparisons

- Staffing
- Length of Test
- Site Preparation
- Safety

# Diagnostics Link Connector Data

- EPA Guide
- Preliminary DLC Image Index
- Compiled DLC Images From Local Area Sources
- Automotive Aftermarket Research Institute

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**This Concludes Session 7  
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