

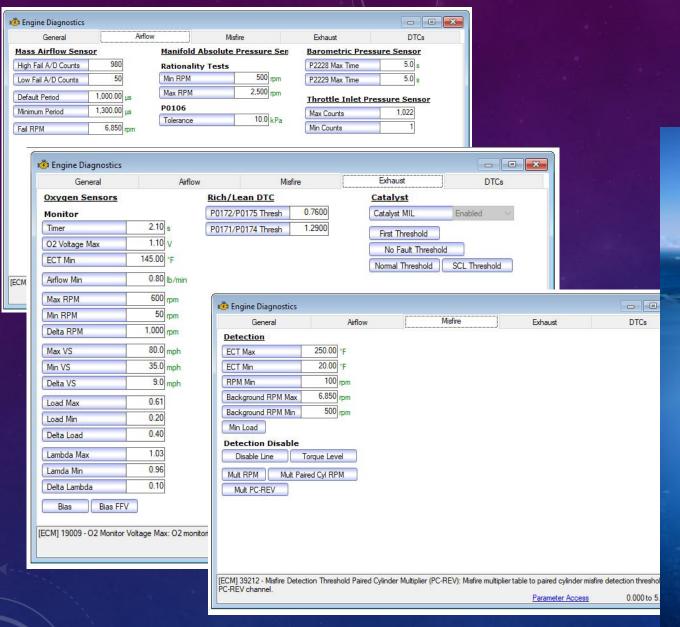
WHAT DOES "NO MIL" FROM OBD REALLY MEAN?

A STORY OF TRUST AND CHEATING

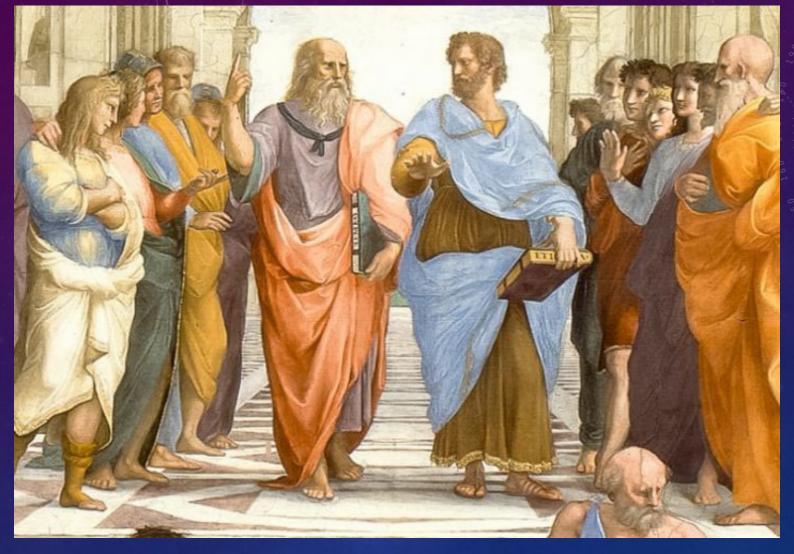
GREG BANISH



- MIL must be on if conditions result in emissions >150% of standard.
- Presence of MIL = automatic fail for cert.
- Stored codes must point toward suspected cause of emissions
- OBD Demonstration for MOR certification represents ~\$1M in testing, more in development
 - Various induced failures, measured tailpipe emissions in lab





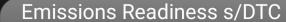


If the MIL isn't on, and we ran the monitors, tailpipe emissions should be less than 150% of the standard.

-Aristotle (probably)

Confirmed Emissions DTC's: 0





Misfire: Complete

Fuel System: Complete

Components: Complete

System Type: Spark

Catalyst: Complete

Heated Catalyst: Not avail

Evaporative Sys: Complete

Secondary Air Sys: Not avail A/C Refrigerant: Not avail

02 Sensor: Complete

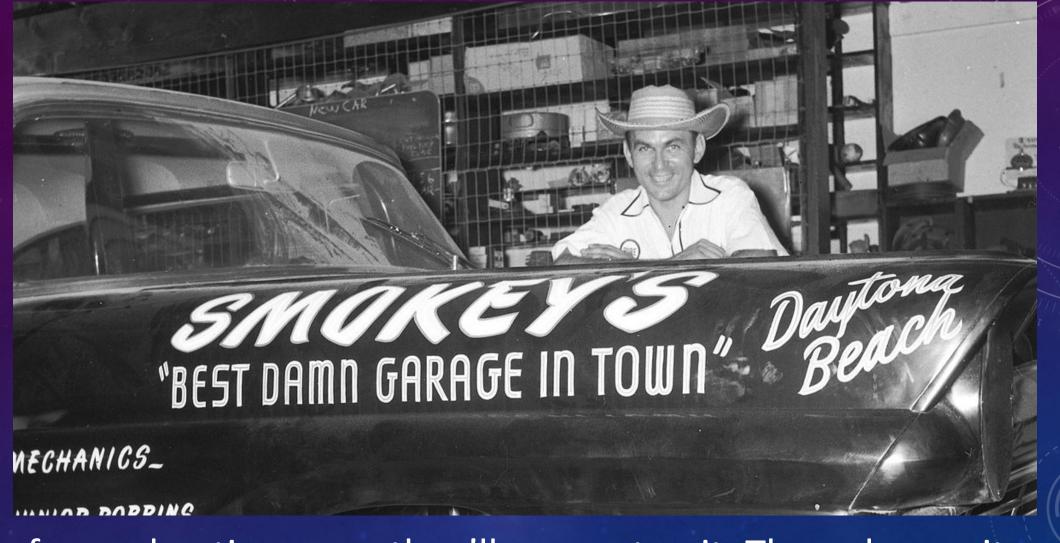
O2 Sensor Heater: Complete

EGR System: Not avail

BAFX PRODUCTS OBDII Diagnostic Interface	
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MIL Is On: False

THE PARTY OF THE P			
Misfire	Complete	Catalyst	Complete
Fuel System	Complete	Heated Catalyst	Not Supported
Components	Complete	Evaporative System	Complete
		Secondary Air System	Not Supported
		A/C Refrigerant	Not Supported
		Oxygen Sensor	Complete
		Oxygen Sensor Heater	Complete
		EGR System	Not Supported



"As far as cheating goes, they'll never stop it. The only way it can be done successfully, only one person can know about it."

-Smokey Yunick

JUST RELEASED! Ford Powerstroke 3.0L | EGR, DPF & DEF Complete Delete Kit | EZ LYNK With Custom Delete Tunes.

https://bigdaddydiesel.com/store /Ford-Powerstroke-3-0L-EGR-DPF-& -DEF-Complete-Delete-Kit-EZ-LYNK -With-Custom-Delete-Tunes -p432770583



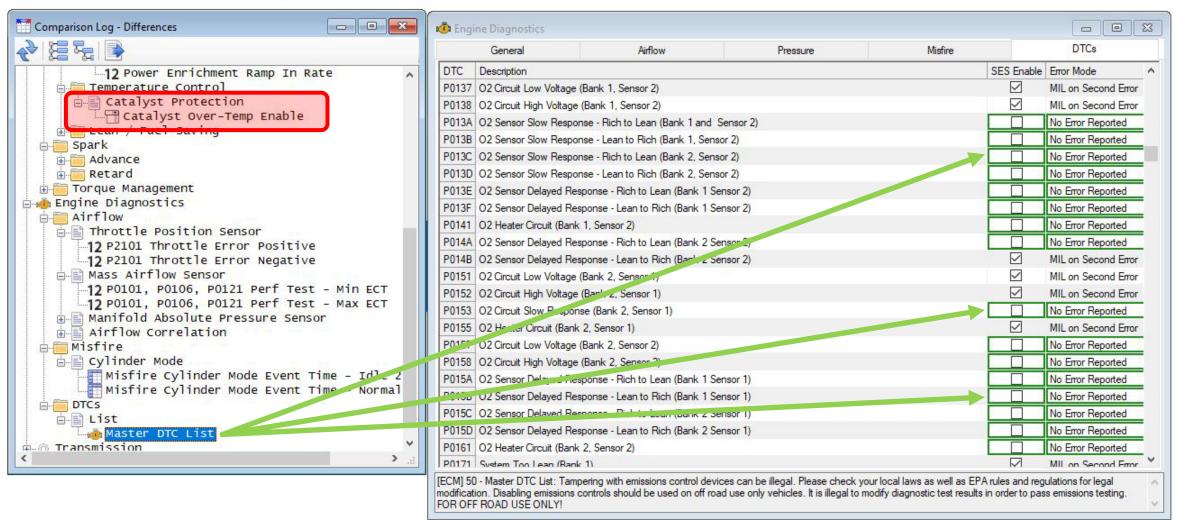




COMMERCIALLY AVAILABLE TOOLS







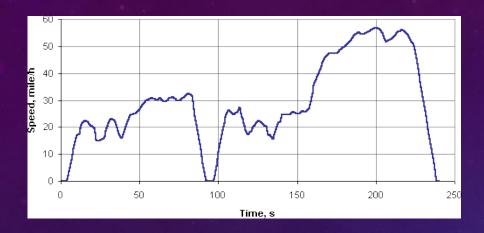
WHERE DO WE DRAW THE LINE?

- Separate polluters from good guys
 - It is possible to make lots of power without disabling emissions or OBD

Quickly identify bad actors, flag them for review.

- Create a reasonable path for in-use compliance on a broad basis.
 - Installers, Users, Auctions
 - Massive impact due to scale

"REASONABLE BASIS"?



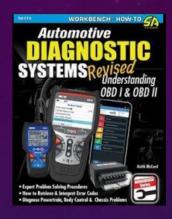
Barriers to Adoption:

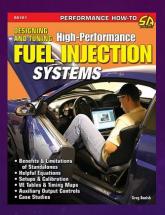
- Catches most offenders
 - Allow Non-Defeat Device systems to pass
- Affordable measurement system
- Ease of use and reporting
- Known regulatory standard
 - g/mi, % concentration, OBD, Signature?
 - NOT 1066
- Avoid CAA fines with compliant systems

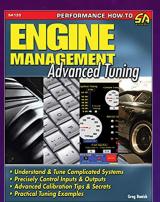




CONTRIBUTIONS















TOTAL TOTAL

- On-site and 1-on-1 training
- Emissions/Performance consulting