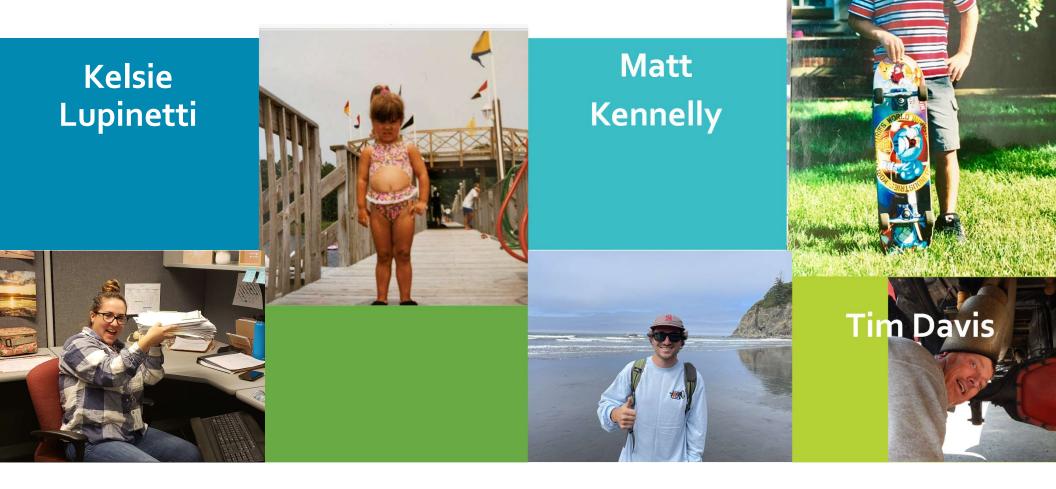


Vehicle Tampering



May 4, 2022

Meet Our Staff - Diesel Enforcement Team



Tampering

The disconnection, detachment, deactivation, or any other alteration or modification from the design of the original vehicle manufacturer or an element of design installed on any motor vehicle with a certified configuration or motor vehicle engine with a certified configuration, except temporarily for the purpose of diagnosis, maintenance, repair, or replacement;

BLACK SMOKE Don't Mean It's Broke

Why Do It?

The most common reasons provided for tampering is increased performance and , but the more likely reason is to avoid maintenance upkeep costs. Like almost every other part of a vehicle, the emission system requires maintenance in order to work properly.



How Big of a Problem is Tampering?

EPA estimates that more than 550,000 Medium Duty Diesel Trucks have removed their emission controls in the last decade.

The emissions increases from these vehicles is equivalent to having over nine million additional stock trucks on the roads – That's Nine Million!

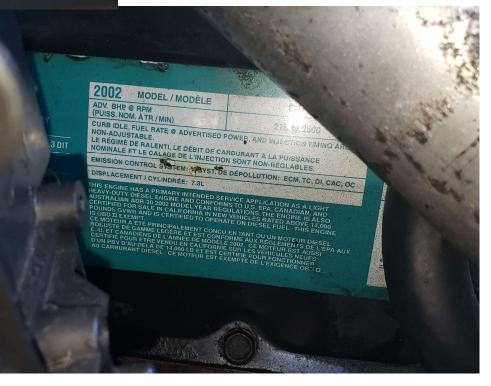
In New Jersey, Where Does Tampering Occur?



County	Private Sale Totals
Atlantic	14
<mark>Bergen</mark>	10
Burlington	20
<mark>Camden</mark>	<mark>9</mark>
Cape May	2
Cumberland	<mark>5</mark>
Essex	4
Gloucester	11
Hudson	2
Hunterdon	13
Mercer	1
<mark>Middlesex</mark>	<mark>4</mark>
Monmouth	16
<mark>Morris</mark>	<mark>9</mark>
Ocean	17
Passaic	<mark>2</mark>
Salem	6
<mark>Somerset</mark>	7
Sussex	12
<mark>Union</mark>	<mark>3</mark>
Warren	7
Total	174

Ford	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION
Conforms to regulation	s: 2012 MY
U.S. EPA: HDV	OBD: CA II FUEL: Diesel
California: ULEV II MD	OBD: CA II FUEL: Diesel
TC/DDI/CAC/EGR-C/00	
7L-Group CFMXD06.7	

Vehicle Emission Control Inventory (VECI)



What Specific Control Components Are Tampered?

EGR Valve & EGR Cooler Exhaust Gas Recirculation

EGR Valve





EGR Cooler

The EGR system works by returning a small portion of exhaust gas to the engine's combustion chambers through the intake manifold, lowering combustion temperatures and therefore reducing the amount of NOx emitted. This control is located in the engine compartment



Exhaust Gas Recirculation Delete



• EGR Cooler location

• EGR Valve location





Diesel Oxidation Catalyst (DOC)

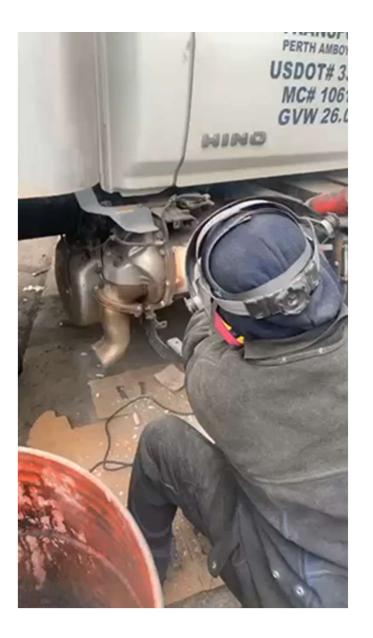
Diesel Oxidation Catalysts (DOC) are **catalytic converters** designed specifically for diesel engines and equipment to reduce Carbon Monoxide (CO), Hydrocarbons (HC) and Particulate Matter (PM) emissions. DOC's are simple, inexpensive, maintenance-free and suitable for all types and applications of diesel engines.





A diesel particulate filter, or DPF, is an exhaust aftertreatment device that traps particulate matter such as soot and ash. A DPF typically uses a substrate made of a ceramic material that is formed into a honeycomb structure.

Diesel Particulate Filter (DPF or Ptox)







Selective Catalytic Reduction (SCR)

This emission control device injects a liquid-reductant agent through a special catalyst into the exhaust stream of a diesel engine. The reductant source is usually automotive-grade urea, otherwise known as Diesel Exhaust Fluid (DEF). The DEF sets off a chemical reaction that converts nitrogen oxides into nitrogen, water and tiny amounts of carbon dioxide (CO2), natural components of the air we breathe, which is then expelled through the vehicle tailpipe.





Complete Exhaust System

Located Underside of Vehicle

Additional Tampering Components

-Tuners -Smoke Switch





Influencers

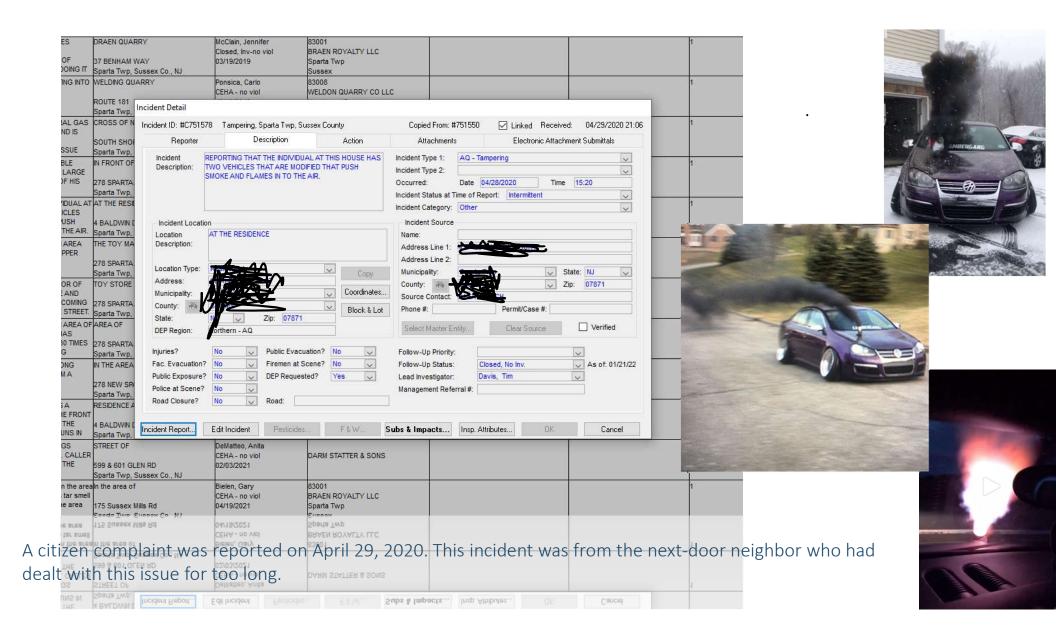
- In today's world nothing happens in a vacuum
- One 'kid tinkering' with his vehicle at home can reach millions of people
- February 2020 NRO was notified of one such person on social media running his tampered TDI up and down the roads and sharing details of his altered vehicles
- 44.5K subscribers on YouTube, 72.5 on Instagram and over 1M on Tiktok



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Have you ever noticed how all the bad stuff starts in America but the country recovers really fast? The subprime recession of last decade was all gone after a couple of years while Europe or Asia struggled for far longer. Dieselgate was like that too.



















At the time we weren't dealing with Private citizens, but due to the blatant and public nature of these actions, the Commissioner wanted this case referred to Criminal Justice.

CJ investigated for several months and eventually seized both of the vehicles in February 2021. We inspected the vehicles to verify that they were in fact tampered. Both vehicles had their catalysts removed and the VW had an EGR delete, and the oxygen sensors removed.

Owner entered into PTI and both vehicles were forfeited to the state.

Here are both vehicles – Still parked at Ewing impound yard

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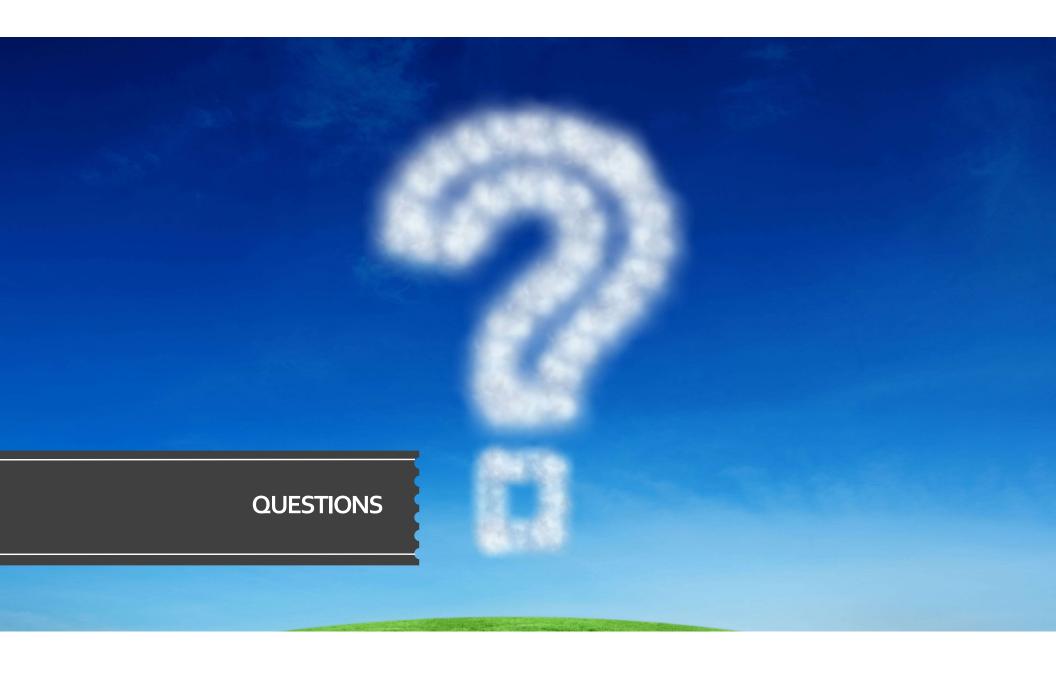
What's next?

Looking forward to seeing both vehicles destroyed!



We'll be sure to get video, stay tuned...











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