



Five Minute Meeting:

Topic: Ford 6.7L Diesel Engine Fuel Filter

Date: June 5, 2024

Audience: Drivers of 2017-2024 Ford Vehicles Equipped with the 6.7L Deisel Engine

The key thing you need to know:

The investigation into a recent engine compartment fire on May 21, 2024 points to the potential for fuel leaks in the engine compartment on 2017-2024 Ford SuperDuty F250, F350, F450, F550, and F600 trucks equipped with the 6.7L diesel engine at the secondary fuel filter mounted on top of the driver-side valve cover near the rear of the engine. The actions below were developed to mitigate the hazard identified:

- Submitted notice to Ford Office of General Council to initiate formal investigation with Ford Engineering
- Filed National Highway Traffic Safety Administration (NHTSA) complaint
- Developed multi-phase strategy to begin adoption of Ford severe duty service intervals; transition from mileage only criteria to mileage, engine hour, and time criteria
- Analyzed engine hour data and Ford severe duty service intervals to form revised scope for Phase 1 & 2 campaigns:
 - Phase 1: Campaign launched 5/23 to replace the fuel filter on 88 high priority assets with 600+ engine hours – DUE DATE 5/29/24
 - Phase 2: Campaign prepped to launch 5/30 to replace the fuel filter on 246 assets with 180+ days since filter change – DUE DATE 6/10/24

A second truck experienced a failure at the secondary fuel filter on June 4, 2024. The operator took the precautionary measures that were provided based on the prior incident and was able to prevent an ignition from occurring. The filter was replaced ~24 hours prior and appears to have split open at the seam. Additional actions are required to mitigate the hazard identified in this second incident.

Why it matters to you:

If fuel leaks from the secondary fuel filter, the fuel may puddle up in the valley of the V8 engine near the exhaust manifold and turbo charger. Diesel fuel spilling in a hot engine compartment creates a fire risk and poses a serious hazard to the operator of the vehicle and the public.



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Key Discussion Points:

2017-2024 Ford SuperDuty F250, F350, F450, F550, and F600 trucks equipped with the 6.7L diesel engine require additional action to mitigate the hazard identified:

1. Open the hood of the vehicle daily during 360 walkaround and DVIR inspections to **inspect the fuel filter**. The filter must be dry and with no signs of fuel leaking.
2. After the initial visual inspection, **start the engine and inspect the filter and underneath the truck** to ensure there are still no leaks with the engine running.
3. **Monitor vehicle performance** for check engine light, rough idling, engine noises, fluid leaks and smell.
4. If during operations you experience any concerns, find a safe location to pull over and **immediately shut off the vehicle**. Do not attempt to restart the vehicle.
5. Immediately **report any concerns to the local PG&E garage**.
6. **Limit vehicle use**. Do not use the vehicle for non-essential work including travel to meetings or training. Shut the engine off when feasible to limit idle time. Minimize offroad driving.
7. Ensure **all required safety equipment is on the truck** and in good working order including one dry chemical fire extinguisher (rated “ABC – multi-purpose use”), a round point shovel, and a 5-gallon backpack pump-type fire extinguisher.
8. Follow the requirements of **EMER-4102S “Preventing and Mitigating Fires While Performing PG&E Work”** section 4 “Vehicle and Helicopter Landing Zone Operation” including:
 - Do not drive off unimproved roadways except when performing required work, or during an emergency.
 - While driving off, or parking off, improved roadways maintain situational awareness.
 - Whenever possible park vehicles in an area cleared of vegetation.
 - Turn off the motors of unoccupied vehicles when parked off road unless the vehicle and motor need to remain running for work purposes.
 - When idling, the vehicle must be parked on a cleared area defined as paved or gravel, or on dirt cleared down to bare mineral soil.



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