PARKED REGENERATION PROCEDURE

1. Keep engine at slow idle (cannot be in PTO mode).
2. Cycle transmission out of neutral and back into neutral.*
3. Cycle the park brake from OFF to ON.*
4. Press and release clutch pedal.*
5. Hold DPF Switch to the ON position for five (5) seconds, then release. Engine speed will increase and DPF Lamp will go out.

- The parked regeneration may take up to 40 minutes.
- The parked regeneration is complete when the engine returns to idle and the DPF lamp remains off. The HEST light may remain on, but the vehicle can be driven.
- A parked regeneration will stop if the key is turned to the OFF position, clutch is depressed, the truck is put into gear or the parking brake is released.

*These steps are not required on GHG14 engines or later.

DEF level is very low

DEF level is EMPTY

Vehicle speed limited to 55 mph / engine derated

DEF level is EMPTY and IGNORED

Vehicle speed limited to 5 mph / engine derated

- The use of improper fluid will trigger a decrease in engine performance.
- In the empty and ignored state, vehicle speed will be limited to 5 mph until DEF is detected in the tank.
- The light bar indicates the level of fluid in the DEF tank.
- Low DEF levels will trigger a decrease in engine performance.
<table>
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<tr>
<th>NOTIFICATION AND DESCRIPTION</th>
<th>DRIVER ACTION</th>
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| **Check Engine Lamp or Amber Warning Light (CEL or AWL)**  
- Engine controls, aftertreatment control system and/or component issues exist. | Vehicle can be driven to end of shift. Call for service. |
| **High Exhaust System Temperature Lamp (HEST)**  
- Solid: Exhaust is at high temperature and vehicle is at low speed or parked.  
- Flashing: Parked regeneration in process. System is not up to temperature. | No change in driving style is required. When parked, keep vehicle at a safe distance from people and flammable materials or vapors. |
| **Malfunction Indicator Lamp (MIL) / Check Engine Lamp**  
- There is a potential problem with the emission control system or component.  
- May illuminate at the same time as the Check Engine Lamp.  
- Driving for a prolonged period with the MIL on can cause damage to the engine and/or aftertreatment system as well as degrade mileage and drivability. | Vehicle can be driven to end of the shift. If the MIL remains on after 3 drive cycles, call for service. |
| **DPF Regeneration Lamp**  
- Solid: Parked regeneration may be needed.  
- Flashing: Parked regeneration is required as soon as possible.  
- Diesel Particulate Filter reaching system limits. | Perform a parked regeneration OR bring vehicle to highway speeds to enable Automatic Regeneration of the filter. |
| **Flashing DPF Regeneration Lamp / Check Engine Lamp**  
**ENGINE DERATED**  
- Diesel Particulate Filter has reached system limits. | A parked regeneration must be performed. If the parked regeneration exits and the lamps remain on, repeat the parked regeneration. If the second attempt fails, call for service. |
| **Flashing Stop Engine Lamp**  
**ENGINE SHUTDOWN**  
- Diesel Particulate Filter has exceeded system limits. | A parked regeneration must be performed. If the parked regeneration exits and the lamps remain on, repeat the parked regeneration. If the second attempt fails, call for service.  
**Note:** Engine can be restarted, but a parked regeneration must be initiated within 30 seconds or the engine will shutdown. |
| **Fuel Filter Restriction Sensor Lamp (FFRS)**  
- Fuel Filter is restricted. | Driver has one to three days to seek service or the engine may derate. |
| **Water In Fuel Lamp (WIF)**  
- Water level is too high and must be drained from the fuel system. | Engine water separator must be drained or an engine derate will occur. |

(Some notifications may be reported by Virtual Technician™.)