**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.

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**DEF level is very low**

- Solid

**DEF level is EMPTY**

- Flashing

**DEF level is EMPTY and IGNORED**

- Flashing

**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.**

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### NOTIFICATION AND DESCRIPTION

<table>
<thead>
<tr>
<th>Notification</th>
<th>Description</th>
<th>Driver Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Check Engine Lamp or Amber Warning Light (CEL or AWL)</strong></td>
<td>• Engine controls, aftertreatment control system and/or component issues exist.</td>
<td>Vehicle can be driven to end of shift. Call for service.</td>
</tr>
<tr>
<td><strong>High Exhaust System Temperature Lamp (HEST)</strong></td>
<td>• 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.</td>
<td>No change in driving style is required. When parked, keep vehicle at a safe distance from people and flammable materials or vapors.</td>
</tr>
<tr>
<td><strong>Malfunction Indicator Lamp (MIL) / Check Engine Lamp</strong></td>
<td>• 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.</td>
<td>Vehicle can be driven to end of the shift. If the MIL remains on after 3 drive cycles, call for service.</td>
</tr>
<tr>
<td><strong>DPF Regeneration Lamp</strong></td>
<td>• Solid: Parked regeneration may be needed. • Flashing: Parked regeneration is required as soon as possible. • Diesel Particulate Filter reaching system limits.</td>
<td>Perform a parked regeneration OR bring vehicle to highway speeds to enable Automatic Regeneration of the filter.</td>
</tr>
<tr>
<td><strong>Flashing DPF Regeneration Lamp / Check Engine Lamp</strong></td>
<td>• Engine Derated: Diesel Particulate Filter has reached system limits.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Flashing Stop Engine Lamp</strong></td>
<td>• Engine Shutdown: Diesel Particulate Filter has exceeded system limits.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Fuel Filter Restriction Sensor Lamp (FFRS)</strong></td>
<td>• Fuel Filter is restricted.</td>
<td>Driver has one to three days to seek service or the engine may derate.</td>
</tr>
<tr>
<td><strong>Water In Fuel Lamp (WIF)</strong></td>
<td>• Water level is too high and must be drained from the fuel system.</td>
<td>Engine water separator must be drained or an engine derate will occur.</td>
</tr>
</tbody>
</table>

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