Service Information Bulletin

Additions, Revisions, or Updates

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<th>Publication Number / Title</th>
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<tr>
<td>DDC-SVC-MAN-0084</td>
<td>EPA07/10</td>
<td>SPN 100/FMI 1</td>
<td>Procedure has been updated.</td>
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<td>DD Platform</td>
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<td>SPN 100/FMI 18</td>
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www.demanddetroit.com
This diagnostic is typically low engine oil pressure.

1. Check for multiple codes.
   a. If fault codes SPN 100/FMI 1 and SPN 100/FMI 3 are both active, diagnose SPN 100/FMI 3 first. Refer to section "SPN 100/FMI 3 - ALL YEARS".
   b. If fault codes SPN 100/FMI 1 and SPN 100/FMI 4 are both active, diagnose SPN 100/FMI 4 first. Refer to section "SPN 100/FMI 4 - ALL YEARS".
   c. If only fault code SPN 100/FMI 1 is active, Go to step 2.

2. Observe the stability of the oil pressure.
   a. If the oil pressure is in normal operating range and stable, Go to step 3.
   b. If the oil pressure is fluctuating, Go to step 4.

**NOTE:** An increase in the engine oil level indicates fuel may be leaking into the engine oil.

3. Check the oil level.
   a. If the oil level is high, check for fuel entering into the engine oil system and repair as required. Change the engine oil.
   b. If the engine oil level is low, fill oil to proper level.

4. Check the operation of the oil gage.
   a. If the oil gage readings are erratic, repair or replace the oil gage as required.
   b. If the oil gage readings are fine, Go to step 5.

5. Check the condition of the oil pump suction pipe.
   a. If the pipe is loose or cracked, replace a cracked pipe and tighten a loose pipe.
   b. If there is no problem with the oil pump suction pipe, Go to step 6.

6. Check the condition of the oil pump drive and driven gears.
   a. If either gear is loose, repair or replace loose gears as required.
   b. If neither gear is loose, Go to step 7.

7. Check for a faulty oil pressure relief valve.
   a. If the relief valve does not open at the set pressure, sticks open, or is loose, replace the oil pump assembly as required.
   b. If the oil pressure relief valve is fine, verify repairs.
3  SPN 100/FMI 18 - ALL YEARS

This diagnosis is typically very low oil pressure.

1. Check for additional active fault codes.
   a. If fault code SPN 100/FMI 3 is active in addition to code SPN 100/FMI 18, diagnose SPN 100/FMI 3 first. Refer to section "SPN 100/FMI 3 - ALL YEARS"
   b. If fault code SPN 100/FMI 4 is active in addition to code SPN 100/FMI 18, diagnose SPN 100/FMI 4 first. Refer to section "SPN 100/FMI 4 - ALL YEARS"
   c. If only fault code SPN 100/FMI 18 is active, Go to step 2.

   WARNING: ENGINE EXHAUST (i)(eov34)
   To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

   WARNING: PERSONAL INJURY (eov84)
   To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.

2. Start engine and check oil pressure.
   a. If pressure is fluctuating, Go to step 3.
   b. If pressure is low but stable, Go to step 4.

3. Stop the engine and allow sufficient time for the oil to drain into the oil pan. Perform the following steps:
   a. Check the oil level. Add recommended oil to bring it to the proper level, if required.
   b. Check for faulty oil gage. Replace, if required. Refer to OEM guidelines.
   c. Check for loose or cracked oil pump suction pipe. Repair or replace, as required.
   d. Check for loose drive or driven oil pump gear. Repair or replace, as required.
   e. Check for faulty oil pressure relief valve. Repair or replace, as required.

4. Stop the engine and allow sufficient time for the oil to drain into the oil pan. Check the oil level.
   a. If oil is above maximum level with no oil previously added, Go to step 5.
   b. If oil is not above maximum level, contact Detroit™ Customer Support Center (800-445-1980).

5. Check for possible fuel in oil.
   a. If fuel is found, locate and repair source of fuel leak. Change the oil.
   b. If fuel is not found, contact Detroit™ Customer Support Center (800-445-1980).