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Coding Information

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Title: How to Read Engine Oil Dipstick Properly

Applies To: MaxxForce 11 & 13

DESCRIPTION

Notches in the oil dipstick tube may be confused as the ADD and FULL markings.

SYMPTOMS

- Driver complains of oil consumption
- Engine oil level found overfull
- Engine oil level found low

RESOLUTION

If there is any complaint about engine oil consumption by a driver, you will need to have the driver explain to you how the oil level is checked, and where the oil level is being filled to. If the engine oil level is found to be low, or the engine is being serviced, this will show you exactly where the oil level should be for proper engine operation.

Fluid Check and Fill Notes

Caution:

Use only the recommended viscosity engine oil. Refer to the Engine Operation and Maintenance Manual for engine oil specifications. Failure to heed this caution may result in vehicle and/or engine component damage

- Wait five minutes after shutting off the engine before checking the oil level. This gives the oil time to drain back to the oil pan.
- Clean all caps and fill plugs prior to removal to prevent dirt and debris from entering system.

Keep oil level between the ADD and FULL marks. Never operate an engine with oil level below the ADD mark.

To obtain an accurate engine oil level reading the vehicle must be parked on a level surface with the engine off for at least five minutes before checking the oil level. This will ensure the oil is level in the oil pan, and the circulated oil has had a chance to return to the pan. It is not necessary for the oil to be hot to obtain an accurate reading.

When checking the oil level, the dipstick must be withdrawn and wiped clean, the inserted all the way and again withdrawn for a true check.

SECTION 5 – MAINTENANCE SCHEDULE AND SERVICE PROCEDURES

Maintenance Schedule (cont.)

Service Procedures



GOVERNMENT REGULATION: Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (e.g. filters, rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.



WARNING: To prevent personal injury or death, shift transmission to park or neutral, set parking brake, and block wheels before doing diagnostic or service procedures.



WARNING: To prevent personal injury or death, do not let engine fluids stay on your skin. Clean skin and nails using hand cleaner and wash with soap and water. Wash or discard clothing and rags contaminated with engine fluids.

OIL LEVEL

Service Interval: Before Engine Operation

1. Park vehicle on level ground.

NOTE: Do not check oil level if engine is running or immediately after engine shutdown.

2. Shut down the engine and wait 5 minutes.
3. Remove oil level gauge from oil level gauge tube.

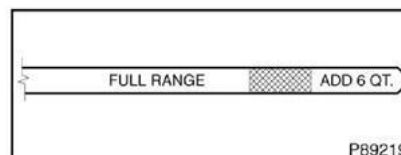
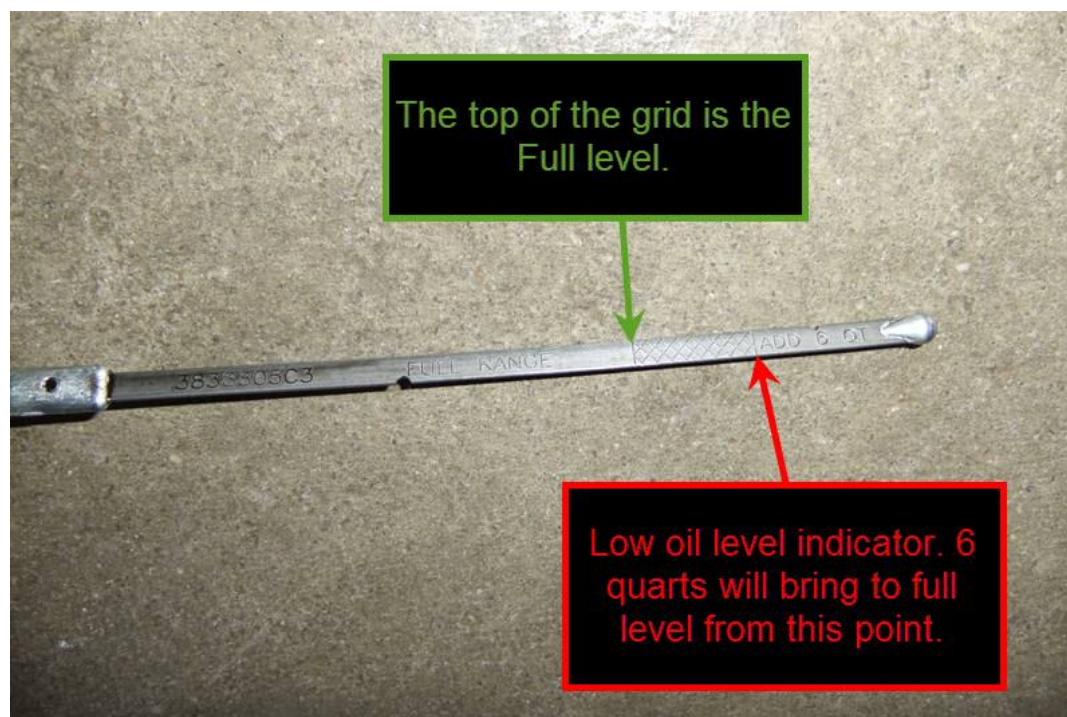
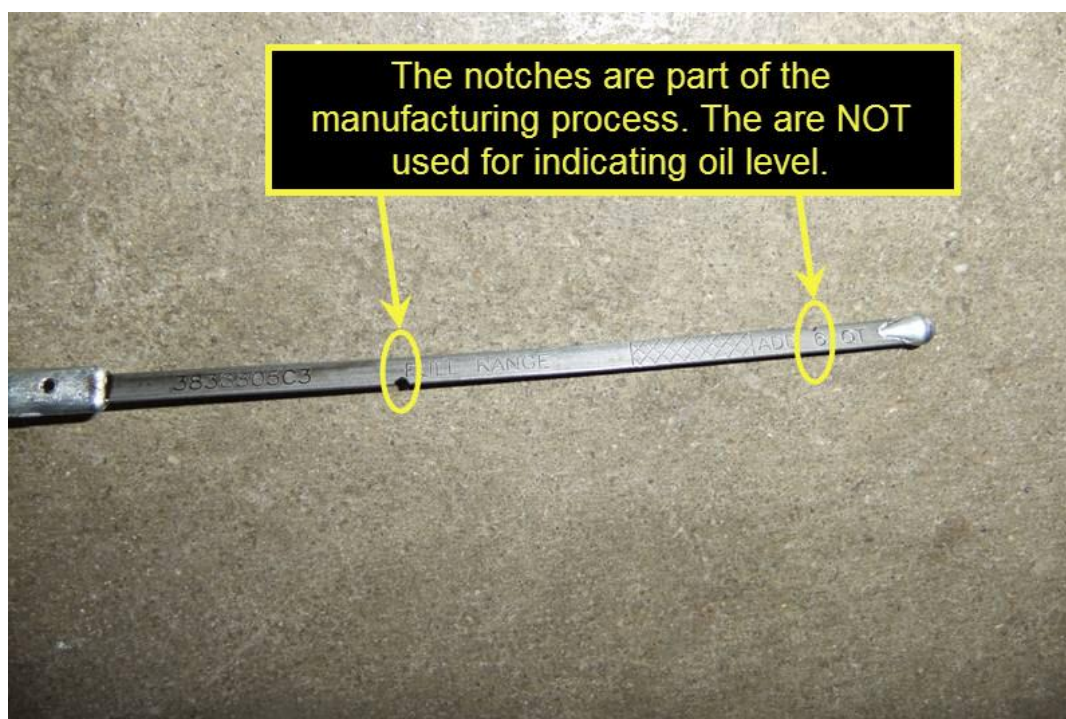


Figure 28 Oil level gauge (typical)

CAUTION: To prevent engine damage do the following:

- Assure oil level readings are within the crosshatched operating range on the oil level gauge.
 - Do not overfill the engine with oil.
 - Do not operate engine if oil level is above or below the operating range.
4. If oil level is below operating range, fill with recommended oil for operating climate. The ADD mark indicates 5.8 liters (6 quarts US) of oil should be added. See Engine Oil Quality and Service Categories (page 34).





OTHER RESOURCES

- MaxxForce® 11 and 13 Diesel Engines - [Engine Operation and Maintenance Manual](#)
- ProStar®+ Series (EPA 2010) - [Operator's Manual](#)

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