Valvoline

TECH TALK

MAINTAIN PERFORMANCE WITH A CLEAN ENGINE

Today, many vehicles are subjected to extended oil drain intervals that often exceed original equipment manufactures' recommendations. Whilst many OEMs recommend oil drain intervals of 10,000 - 15,000 kilometres, these recommendations are subject to a specific set of driving conditions.

The problem is that most motorists don't adhere to these criteria and are unaware that their normal driving habits often constitute what OEMs refer to as 'harsh driving conditions'. In these cases service intervals are usually halved.

Intermediate services are required if a vehicle is regularly operated under any or all of the following conditions:

- Extensive idling and/or low-speed driving for long distances
- Repeated short trips where the engine does not reach normal operating temperature
- Extended high-speed driving under heavy load in high temperatures
- Towing caravans, trailers or boats
- Extended stop-start driving
- Operating on rough, dusty or loose surfaced roads

A good percentage of vehicles on the road today drive under one or more of the above conditions, particularly when you consider that extensive idling, repeated short trips and stop-start driving are commonplace in regular city traffic.

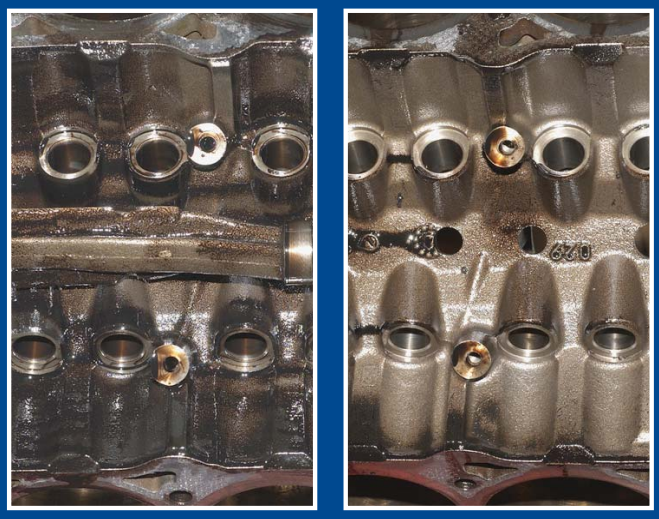
One of the biggest consequences of motorists not getting their vehicle serviced at the correct interval is the build up of excessive amounts of soot and sludge in the engine.

To properly clean an engine before adding new motor oil, Valvoline recommend the use of an engine flush. The light base oils used in Valvoline Engine Flush are formulated to carry the special dispersant and detergent additives that actively clean deposits in the engine.

Valvoline Engine Flush is an advanced non-solvent formulation.

"Solvent based engine flushes can do a great job, but they have a propensity to damage seals and gaskets if they are left in too long", says Regional Technical Manager Ed Kopinski. "The problem is that many people leave the product in for an extended time hoping that it will improve the result", continues Ed. "By developing a non-solvent engine flush, we have minimised the chances of this occurring. The other major benefit of a non-solvent engine flush is that it cleans in a gentle and controlled fashion. Many products containing harsh solvents have a tendency to remove large chunks of deposits all at once. The problem is that these chunks can get stuck in the lifter gallery causing a multitude of engine problems."

Valvoline's advanced non-solvent formulation not only minimises the risk of harming seals and gasket materials, it also safely dissolves sludge and cleans engines to improve oil circulation, free sticky valves and lifters and reduce the deposits that rob the engine of power.



BEFORE **AFTER**

Engine test results show significantly reduced deposits on lifter gallery.

For more information on Valvoline Engine Flush or any other Valvoline products, contact the Valvoline® Technical Hotline on 1800 804 658. Monday to Friday 8:30am to 4:30 pm EST.