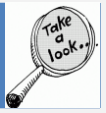


# ADVICE CENTRE (COUNCELLING)



## 1.) ROLE OF LUBRICANTS

A) Lubrication - If your engine is operating correctly, there is almost no metal to metal contact - everything is riding on a thin film of oil.

**All lubricants start with base oil. Typically, the ratio is somewhere around 90% base oil + 10% additives.**

B) Heat transfer- Oil circulates throughout your engine, and cools parts that cannot get near a water jacket. For example, it's becoming common in sport bikes to spray oil on the underside of the piston to cool it. There are no water jackets at all in your transmission.

C) Sealing-Lubricants assist in forming seals between pistons and cylinders. High quality oils can provide increased bearing protection .Your piston rings do not do a perfect job of sealing. Some combustion by products will slip past the rings into the engine. This can be little particles of carbon. Remember, diamond is carbon that was combined under heat and pressure. These little carbon particles can be quite damaging to your engine. Another job of your oil is to hold these particles in suspension until the oil filter can grab them

## 2.) ROLE OF OIL FILTER

Although motor oil reduces wear considerably, the rubbing of metal engine parts will inevitably produce some microscopic metallic particles from the wearing of the surfaces. Such particles could circulate in the oil and grind against moving parts, causing additional wear. Because particles accumulate in the oil, it is typically circulated through an oil filter to remove harmful particles. An oil pump, a vane or gear pump powered by the engine, pumps the oil throughout the engine, including the oil filter

## 3.) HOW OFTEN SHOULD I CHANGE THE MOTOR OIL

Oil is the life-blood of an engine: Regular oil changes are one of the most important things that can be done to help extend the life of an engine! Each OEM (original equipment manufacturer) tests his own vehicle in combination with the recommended motor oils in order to determine the proper drain interval. Therefore please check the vehicle owner's manual: It does not only specify the exact type of motor oil to be used, but also the related recommended oil change intervals. But generally speaking synthetic motor oils will allow longer drain intervals, and severe driving conditions will demand shorter drain intervals.