

Engine Lubrication

Why It Matters

Your engine is the heart of your car. Keeping your engine properly lubricated reduces friction, heat buildup and wear. This means that good engine lubrication maintenance will help your engine run better and last longer.

How It Works

Proper lubrication of an engine is a complex process. Motor oil must perform many functions under many different operating conditions. The primary functions of oil are listed below:

- Provide a barrier between moving parts to reduce friction, heat buildup and wear.
- Disperse heat. Friction from moving parts and combustion of fuel produce heat that must be carried away.
- Absorb and suspend dirt and other particles. Dirt and carbon particles need to be carried by the oil to the oil filter where they can be trapped.
- Neutralize acids that can build up and destroy polished metal surfaces.
- Coat all engine parts. Oil should have the ability to leave a protective coating on all parts when the engine is turned off to prevent rust and corrosion.
- Resist sludge and varnish buildup. Oil must be able to endure extreme heat without changing in physical properties or breaking down. Stay fluid in cold weather; yet remain thick enough to offer engine protection in hot weather.

Additives provide most of these functions. "Base" motor oil is always blended with additives to help provide a more complete package of engine protection. This is also true with synthetic oils.

Over time, the additives in motor oils can get used up, and the level of protection to your engine can diminish. This is especially true in severe driving conditions. Oil treatment products from ARAN can help to replenish or maintain a level of additive protection for your engine.

What You Do

Check your oil level

Every fill-up

Regular oil changes & Aran Oil Treatment

Every 3,000 miles (ARAN® Oil Treatment) or Every 3,000 miles (ARAN® 4-Cylinder Oil Treatment)

Proper maintenance of your engine involves changing the engine oil and filter every 3,000 miles (or with manufacturer recommendation), along with cleaning your fuel injectors and

checking other items such as belts, hoses and other fluids. ARAN® Oil Treatment fights metal-to-metal friction by providing a thicker cushion between moving engine parts in all cars, light trucks and SUVs. ARAN® 4-Cylinder Oil Treatment is specially formulated for hotter-running four-cylinder engines. It helps resist motor oil breakdown, counteracts oil thinning by boosting viscosity, and increases the anti-wear protection of your motor oil.

ARAN® Problem Solver Oil Treatments

Help stop minor oil leaks with ARAN® Engine Stop Leak

Help reduce smoke and oil burning with ARAN® Smoke Treatment

Products like ARAN® Engine Stop Leak and ARAN® Smoke Treatment are specialty products meant for use when common problems like oil leaks or exhaust smoke occurs. They are designed to help rejuvenate seals and gaskets, and improve sealing at valve guides, piston rings and cylinder walls.