

Common Industrial Lubricants

Royal Purple Recommendations

Royal Purple always recommends that the original equipment manufacturer's (OEM) manual be used to determine the proper type and viscosity of lubricant for any piece of equipment. The most commonly recommended lubricant types are:

R&O Oils — These are generally mineral oils containing small amounts of rust and oxidation inhibitors and no anti-wear additives.

R&O oils are sometimes referred to as circulating oils, turbine oils, gear and bearing oils or simply by their AGMA gear oil classification (example AGMA 5 R&O gear oil). Some of the most common brand names of R&O oils are:

Mobil DTE® (light, medium, etc.)
Exxon Teresstic® (32, 46, etc.)
Shell Turbo® & Turbo® T
Chevron GST

When an OEM recommends the use of an Industrial R&O Oil, Royal Purple generally recommends:

Synfilm®
or
Synfilm® GT.

Anti-Wear (AW) Hydraulic Oils — These are generally mineral oils that contain anti-wear additives along with rust and oxidation inhibitors. Some of the most common brand names for AW hydraulic oils are:

Mobil DTE® 20 series
Exxon Nuto® H
Shell Tellus®
Chevron Clarity AW®

When an OEM recommends the use of an AW hydraulic oil, Royal Purple generally recommends:

Syndraulic®.

Extreme Pressure Gear Oils — These are generally mineral oils that contain sulfur-phosphorous additives that generally meet AGMA EP performance requirements. Some of the most common brand names for EP gear oils are:

Mobil Mobilgear®
Exxon Spartan® EP
Shell Omala®
Chevron Gear Compound EP

When an OEM recommends the use of an EP gear oil, Royal Purple recommends:

Synergy®
or
Thermyl-Glyde®.

“Our vibration analyst predicted bearing failure was imminent, so we decided to try Royal Purple. We replaced the SAE 30 Shell oil with Royal Purple Synfilm® 100 and the vibration and noise abated immediately and ran for eleven months.”

— Maintenance Leaders