

SynTX
API CK-4



SynTX Synthetic Blend 15W-40 and 10W-30 Diesel Engine Oils API CK-4

Protect today's diesel engines to the fullest, while maximizing performance with these world-class synthetic blend lubricants that exceed U.S. and European OEM requirements.

Formulated to perform beyond the requirements of CK-4, **SynTX Synthetic Blend API CK-4 SAE 15W-40 and SAE 10W-30 Diesel Engine Oils** protect and prolong the life of newer engines with advanced emission systems. They are fully backward compatible and provide an additional level of advanced protection for older engines.

These lubricants are exceedingly resistant to heat, oxidation and viscosity loss from shearing. **SynTX 15W-40 and 10W-30** protect against sludge, deposits and wear by staying in-grade at temperatures and conditions that deplete the protective qualities of conventional motor oils. They pump much faster than conventional oils too. Even after extended use, **SynTX** oils safeguard engines at cold start-up in low temperatures.

A high TBN built with reserve power, rust and corrosion inhibitors, patented soot dispersants and field proven detergents enable **SynTX Synthetic Blend Diesel Engine Oils** to control corrosive acids and soot thickening, reduce wear and deposits, keep engines cleaner longer and provide stay-in-grade protection over extended drains.

With technology and quality that stand up to more costly major brands, **SynTX** is the premier choice for engine protection.

Performance Attribute

Performance Benefit

Featuring 35% to 40% of the total base oils used as GRP III (Synthetic) combined with GRP II base oil to offer High Viscosity Index and Low Volatility

Exceptional thermal and oxidative stability, resists shear, reduces deposits and wear. Excellent low-temperature performance, less oil burn-off and, improved fuel economy.

Highly Shear-Stable, Viscosity Index Improver

Maximum protection against viscosity loss from shearing. Outstanding retention of low-temperature pumpability. Maintains viscosity for the life of the oil. Exceptional wear protection. Supports longer drain intervals.

Heavily Fortified with Detergents

Long lasting TBN, high levels of wear protection, engine cleanliness, rust and corrosion protection. Reduces ring wear, cylinder bore polishing, cylinder liner wear, oil consumption, piston deposits and ring breakage to support extended drain intervals.



To find out more about our products and services, contact us at: **(800) 333-3717** or visit **www.alliedoil.com**

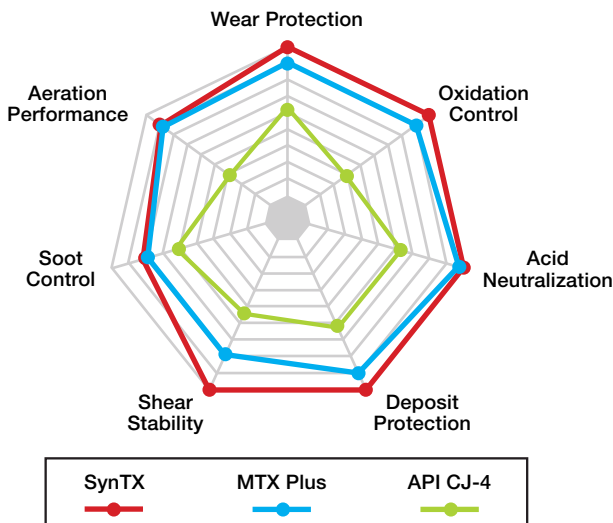


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Recommended for:

2007 and newer low emission engines with exhaust after treatment devices; pre-2007 engines using Ultra-Low Sulfur Diesel (ULSD) or Low Sulfur Diesel (LSD); extreme operating conditions including long hauls, heavy loads, and all weather conditions; strenuous on-and off-road applications, heavy hauls, dusty and dirty conditions.

Relative Performance Chart



Specifications/Approvals:

Recommended for diesel engines and, where appropriate, gasoline engines requiring any of the following specifications:

- API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF, SN*, SM*, SL* Performance
- Mack EOS-4.5, EO-O Premium Plus '07, EO-N Premium Plus '03, EO-M Plus, EO-M
- Caterpillar ECF-3, ECF-2, ECF-1-a
- Cummins CES 20086, 20081, 20077, 20076
- Detroit Diesel 93K222, 93K218
- MAN 3575
- Mercedes Benz 228.31
- MTU Category 2.1
- Volvo VDS-4.5, VDS-4, VDS-3, VDS-2
- Renault RLD-4
- ACEA E9-2012, E7-04, E4, E2
- MIL-L-2104E
- Allison TES439*
- Ford WSS-M2C171-F1

*15W-40 only

Typical Properties

| Property | Method | 15W-40 | 10W-30 |
|---------------------------|-------------|--------|--------|
| Viscosity @ 100°C, cSt | ASTM D-445 | 15.8 | 12.0 |
| Viscosity @ 40°C, cSt | ASTM D-445 | 119.1 | 81.5 |
| Viscosity Index | ASTM D-2270 | 141 | 142 |
| HTHS Viscosity, cP | ASTM D-4683 | 4.1 | 3.5 |
| MRV @ -25°C, cP | ASTM D-4684 | 24,600 | |
| MRV @ -30°C, cP | ASTM D-4684 | | 20,900 |
| CCS Viscosity @ -20°C, cP | ASTM D-5293 | 5,300 | |
| CCS Viscosity @ -25°C, cP | ASTM D-5293 | | 6,010 |
| Sulfated Ash, wt. % | ASTM D-874 | 1.0 | 1.0 |
| Total Base Number | ASTM D-2896 | 10 | 10 |

Performance Benefits:

- Exceptional Cold Start Operation
- Outstanding Shear Stability and Viscosity Control
- Superior Thermal and Oxidative Stability
- Safeguards Engines in All Weather Conditions
- Reduces Oil Consumption and Emissions
- Controls Soot-Thickening and Wear
- Improved Wear Control
- Highly Resistant to Deposits and Sludge
- Superior Rust and Corrosion Prevention
- Reduces Friction and Improves Fuel Economy
- Long Lasting 10 TBN Extends Drains
- Exceeds Emission System Requirements
- Exceeds US and European OEM Requirements