



CI-4 SAE 15W40 10 TBN

DESCRIPTION:

- Premium grade diesel engine oil that provides excellent protection for newer, high performance engines that are used in the toughest on road and off road applications.
- Shown to be versatile as well as able to meet the grueling demands of today's low emission diesel engines, as well as the older models which are using both low and high sulfur fuels.
- Recommended for use in a variety of heavy duty uses as well as operating environments.
- Meets the API SL specification for gasoline engines that are used in mixed fleets.

FEATURES/BENEFITS:

- Performs well in low emission diesel engines which increase the demands on engine lubricants.
- Delivers the best performance in these late model engines, as well as older engines.
- Excellent soot handling capabilities.
- Exemplary thermal stability and oxidation control.
- Contains properties which provide anti-wear and anti-scuff.
- Contains extended TBN reserves which provide improved acid neutralization and corrosion protection.
- Maximizes oil flow to the critical bearing surfaces during start up.
- Has stay-in-grade sheer stability.
- Extended drain capabilities- excellent water tolerance.
- Excellent deposit control, oil oxidation resistance, wear and rust control in gasoline and diesel engines

APPLICATIONS:

- On the highway applications for light and heavy duty trucking.
- Off the highway applications such as trucking, construction, agriculture and quarrying.
- Various mixed fleet applications.

Meets Performance Requirements:

- API CI-4 PLUS, CI-4/SL
- ACEA E2, E5, E3
- ACEA A3/B3
- JASO DH-1
- MACK EO-M PREMIUM PLUS
- MACK EO-L
- CUMMINS CES 20077, 20076, 20075, 20072, 20071
- VOLVO VDS-2, VDS-3
- CATERPILLAR ECF-1
- MB 228.0, MB 228.3
- VW 501, 505
- MAN 271
- MTU TYPE 1



- RVI E2 R
- DDA 93K214

* ALWAYS CONSULT YOUR OWNER'S MANUAL FOR THE PROPER FLUID FOR YOUR EQUIPMENT.

TYPICAL TEST DATA

SAE GRADE	15W40
Specific Gravity @ 60 °F	0.8770
Viscosity, Kinematic	
cSt at 40°C	104.7
cSt at 100°C	14.0
Viscosity Index	135
Cold Crank, cP at °C, Max	7000 @ -20C
Flash Point, °F	425
Pour Point, °C (°F)	-21 (-5.8)
Color, Max	4.5
TBN	10
Sulfated Ash, wt%	1.5

Typical test data are average values only. Minor variations which do not affect product performance are to be expected during normal manufacturing.