

TOPPER[®]

HIGH-QUALITY MOTOR OIL

15W40 CI-4/SL HEAVY DUTY DIESEL ENGINE OIL

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.
- Meets the API CI-4 specifications for diesel engine requirements.

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.
- Meets the manufacturer's warranty requirements of CI-4 and SL.
- Meets Cummins CES 20078 classification.

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.
- Mecha Tool engine oils are recommended for use wherever MIL L 2104-G and MIL L 46152-E are recommended; wherever Allison C-3 and C-4 fluids and Caterpillar TO-2 are recommended or required; and are recommended for use wherever the following European approval standards are specified: ACEA A5/B5, A3/B4, A3/B3, A1/B1 / E7, E6, E5, E3, E2 and E1.

***PLEASE NOTE: ALWAYS CONSULT YOUR OWNER'S MANUAL FOR YOUR PROPER FLUID EQUIPMENT.**

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HIGH-QUALITY MOTOR OIL
TYPICAL TEST DATA 15W-40 CI-4/SL

SAE Grade	15W-40
Product Number	TO1540CI
Gravity, ASTM D 4052, 'API	27.8
Pounds Per Gallon	7.4
Flash Point, ASTM D92 (COC), 'F('C)	450
Viscosity, ASTM D 445, cSt at 100'C	15.1
ASTM D 445, cSt at 40'C	128
Viscosity Index, ASTM D 2270	135
HTHS Rate Vis at 150'C & 106 sec -1, cP	4.4
CCS Vis, ASTM D 5293, cP at 'C	6600at-20c
MRV Vis, ASTM D 4684, CP at 'C	20900at-25c
MRV Yield Stress, ASTM D 4684, Pa at 'C	<35at-25c
Pour Point, ASTM D97, 'F('C)	-27
Sulfated Ash, ASTM D 874, % Max	1.5
TBN (total base no., ASTM D2896	12
NOACK Volatility, ASTM D 5800, % Loss	13
Color, ASTM D 1500 (may vary by location)	2.0

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

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