

Product Data Sheet

Heavy Duty Diesel Engine Oil Multi-Grade (CI-4) Premium Gold

SAE: 20W50

Product Code: 343

OVERVIEW

Heavy Duty Diesel Engine Oil Multi-Grade CI-4 20W-50

- 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.

FEATURES / BENEFITS

Heavy Duty Diesel Engine Oil Multi-Grade CI-4 20W-50

- 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

APPLICATIONS

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

SPECIFICATION /Suitable for Use Claims

Exceeds 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 LUBRICANT OIL FOR YOUR EQUIPMENT.

TYPICAL TEST DATA

PRODUCT CODE	343
SAE GRADE	20W-50
API/ILSAC/ACEA Specifications	CI-4, CI-4 Plus, CI-4/SL, ACEA E2,E5, E3 A3/B3
Specific Gravity@ 60°F	0.884
Viscosity, cSt @ 100°C	17.4
Viscosity, cSt @ 40°C	137.0
Viscosity, (cold crank) CCS cP @ -15°C	9500
Viscosity Index	135
Pour Point, °C	-18
Flash Point, °C	411
TBN (D2896)	10
Sulfated Ash wt	1.5
Nitrogen wt %	0.1029
Sulfur, Wt. (%)	0.450

The above test data are average values only. Minor variations which do not affect product performance are to be expected during manufacturing. Specific PDS for each product will be provided upon purchase.