

Product Data Sheet

Heavy Duty Diesel Engine Oil Synthetic (CK-4) Premium Gold

SAE: 5W40
Product Code: 301

OVERVIEW

Heavy Duty Diesel Engine Oil Synthetic CK-4

5W-40 is formulated to exceed the latest API diesel engine oil specifications as well as the warranty and performance requirements of most diesel engine manufacturers. Designed for superior cold weather protection and use in model year 2017 or newer heavy-duty diesel engines in high output service, it is fully backwards compatible to engines requiring any API C service class.

FEATURES / BENEFITS

Heavy Duty Diesel Engine Oil Synthetic CK-4 5W-40 provides robust low and high temperature wear protection, increased oxidation stability and excellent shear stability over any previous API category.

- Performs well in low emission diesel engines which increase the demands on engine lubricants.
- Delivers the best performance in 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.

APPLICATIONS

Heavy Duty Diesel Engine Oil Synthetic CK-4 5W-40 can be used in over-the-road diesel trucks, off-highway diesel equipment, farm tractors, stationary equipment, and any vehicle or diesel engine where an API CK-4 or earlier C class oil is specified.

SPECIFICATION /Suitable for Use Claims

Exceeds API CK-4, CJ-4, CI-4, CI-4 Plus, CH-4, CG-4, CF-4, CF/SN • ACEA E9-12, E9-16, E9-08 & E7-04 • CAT ECF-1a, ECF-2, ECF-3 & TO-2 • Cummins CES 20086, 20081, 20077 & 20076 • Detroit Diesel DDC 93K222, 93K218, 93K214, 7SE270, PG PGOS • Deutz DQC III-10 LA • Ford WSS-M2C171-F1 • JASO DH-2 • Mack EOS-4.5, EO-O Premium Plus, EO-M, EO-N Premium Plus • MB 228.31 • MAN 3575 • MTU MTL 5044 Type 2.1 • Renault VI RLD-4, RLD-3 • Volvo VDS-4.5, VDS-4, VDS-3, VDS-2, Allison C-4, and more.

ALWAYS CONSULT YOUR OWNER'S MANUAL FOR THE PROPER LUBRICANT OIL FOR YOUR EQUIPMENT.

TYPICAL TEST DATA

PRODUCT CODE	301
SAE GRADE	5W-40
API/ILSAC/ACEA Specifications	CK-4, CF/SN, /E9-12, E9-16
Viscosity, cSt @ 100°C	14.4
Viscosity, cSt @ 40°C	88.7
Viscosity, CCS cP @ -20°C	6260
Viscosity Index	169
Pour Point, °C	-42
Sulfated Ash, Wt. (%)	1.0
High Temp/High Shear Viscosity, cP (D4683)	3.9
Flash Point, °C	229
Zinc, Wt. (%)	0.127
Calcium, Wt. (%)	0.082
Sulfur, Wt. (%)	0.300
Nitrogen, Wt. (%)	0.140
Magnesium, Wt. (%)	0.116
Phosphorus, Wt. (%)	0.115
NOACK, Wt. (%) (D5300)	12
TBN (D2896)	11.0

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.