



Super S FG-2000 Synthetic Blend 10W-40 CK-4

Super S FG-2000 Synthetic Blend 10W-40 CK-4 is a Low-SAPS, high performance heavy duty engine oil formulated to provide lubrication to modern, low emissions engines operating in moderate to severe conditions. It meets or exceeds nearly all the next generation OEM specifications including those from Ford, Cummins, Detroit Diesel, Mack, Volvo, Renault, Mercedes, MAN, Scania, and Deutz.

Super S CK-4 Synthetic Blend motor oil protects engines with Emission Controls, EGR engines, as well as older engines. It is even recommended by leading heavy equipment manufacturers such as John Deere, Kubota, Massey Ferguson, JI Case, Allis Chalmers, and International Harvester.

This ground breaking low-ash technology provides improved wear protection, deposit and soot control, and improves oil consumption by neutralizing combustion by-products that cause harmful deposits¹. Emission reduction systems such as DPFs (Diesel Particulate Filters) have shown an increased productivity and extended catalyst life this all new technology.

The use of both highly refined mineral base oils combined with premium synthetics allow for optimum operating efficiency in both extreme hot and cold temperatures by reducing volatility due to burn off and providing instant starts in freezing conditions.

Its high film strength and incredible thermal stability makes Super S CK-4 fluids suitable for both on and off-road driving conditions. Turbochargers and intercoolers place increased thermal stress on engine components while low emission technologies increase fuel injection pressure demanding an oil with improved performance.

Super S FG-2000 Synthetic Blend 10W-40 CK-4 is an extended drain capable engine oil that also prevents viscosity loss from shearing and reduces friction leading to longer engine life and reduced maintenance costs. It can be recommended for new engines requiring CK-4 fluid and is backward compatible with API CK-4, CJ-4, CI-4 PLUS, CI-4, and CH oils.

FEATURES/ BENEFITS

Super S FG-2000 Synthetic Blend CK-4 provides

- Low ash formulation extends catalyst life
- 2x better corrosion control than the new API standards
- Protects cylinders up to 80x more than Daimler standards
- Improved protection from thermal and oxidative breakdown
- Excellent anti-wear, anti-foam, and anti-rust properties
- Up to 63% better soot control than previous CJ-4 predecessor
- Extremely shear stable preventing viscosity loss
- Compatible with both diesel and gasoline engines
- Improved TBN retention over previous diesel engine oils

RECOMMENDATIONS/SPECIFICATIONS

Super S FG-2000 Synthetic Blend CK-4 meets or exceeds the following performance requirements or OEM specifications:

API CK-4, CJ-4, CI-4+, CI-4, CH-4	ALLISON TES- 439
ACEA E9-16	RENAULT RLD -4
CUMMINS CES 20086, 81	MB 228.31
CAT ECF-3, ECF-2	MAN 3275 / 3575
DETROIT DIESEL DFS93K222, 218	MTU 2.1
FORD POWERSTROKE (WSS-M2C171-F1)	DEUTZ DQC III -10 LA
JOHN DEERE Tier IV Engines	GLOBAL DHD -1
MACK EOS-4.5	JASO DH-2
VOLVO VDS-4.5	LDH-4

SPECIAL HANDLING, NOTICES OR WARNINGS

Use the same care and handling that you would use with petroleum products.

TYPICAL CHARACTERISTICS

Super S FG-2000 Synthetic Blend CK-4	
<i>Property</i>	<i>SAE Viscosity Grade</i>
Product Code	217
SAE Grade	10W-40
Viscosity cSt @ 40°C cSt @ 100°C	118 15.4
Viscosity Index	140
Sulfated Ash wt %	1.0
Pour Point °C	-39
HTHS @ 150 °C	3.5
Flash Point °C (COC)	229
TBN	9.7
Phosphorous, m%	0.113

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

PRODUCT NUMBERS

10W40	SUS 198-12	12/1 quart bottles
	SUS 198	5 gallon pail
	SUS 198-55	55 gallon bottles