



# Super S® FG-2000 Synthetic Blend CK-4/SN

**Super S® FG-2000 Synthetic Blend CK-4/SN** is formulated with the use of Eco Friendly, Low Ash additive technology to provide robust protection with increased fuel economy in on and off-road heavy duty engines. It meets or exceeds nearly all of the next generation OEM specifications including those from Ford, Caterpillar, Cummins, Detroit Diesel, Mack, Volvo, Renault, Mercedes, MAN and Deutz.

**FG-2000 Synthetic Blend** motor oils protect engines with Emission Controls, EGR engines, as well as older engines. This advanced additive technology provides improved wear protection, deposit and soot control, and improves oil consumption by neutralizing ash forming combustion by-products that cause harmful deposits.

**Super S® FG-2000** is an extended drain capable motor oil that prevents viscosity loss from shearing and reduces friction leading to longer engine life and improved fuel economy. Its high film strength makes

**FG-2000** fluids are suitable for both on and off-road, severe service driving conditions. It can be recommended for new engines requiring CK-4 fluid and is backward compatible with API CJ-4, CI-4 PLUS, CI-4, and CH oils.

## APPLICATIONS

- Severe service, heavy duty engines including those with EGR or DPF
- Off-highway agricultural, mining, logging, and construction applications
- On-highway semis, pick-ups, sport utilities, vans, buses, cars, motorcycles, and most other equipment requiring a low-ash, heavy duty engine oil

## FEATURES/ BENEFITS

- Eco Friendly Low Ash formulation
- Increased fuel economy by using semi-synthetic base oils and advanced friction modifiers
- Neutralizes and disperses combustion by-products to prevent harmful deposits
- Improved protection from thermal and oxidative breakdown
- Excellent anti-wear, anti-foam, and anti-rust properties
- Excellent soot control
- High film strength provides robust performance in high load operating conditions
- 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/SN meets or exceeds the following performance requirements or OEM specifications:**

API CK-4, CJ-4, CI-4+, CI-4, CH-4

API SN (15W-40\*)

ACEA E9-16

DETROIT DIESEL DFS93K222<sup>1</sup>, 18

CUMMINS CES20086<sup>1</sup>, 81

FORD POWERSTROKE (WSS-W2C171-F1)

MACK EOS-4.5

MTU 2.1

RENAULT RLD-4

Allison TES-439

CAT ECF-3, ECF-2

VOLVO VDS-4.5 MB

228.31

MAN 3575

DEUTZ DQC III-10 LA

JD Tier IV

JASO DH-2

\*10W-30 and 5W-40 do not meet SN due to phosphorous level above 800ppm  
<sup>1</sup> Approval obtained



# Super S® FG-2000 Synthetic Blend CK-4/SN

## TYPICAL CHARACTERISTICS

Super S® FG-2000 Synthetic Blend CK-4/SN		
Property	SAE Viscosity Grade	
SAE Grade	10W-30	15W-40
Viscosity		
cSt @ 40°C	81.6	118
cSt @ 100°C	11.85	15.4
Viscosity Index	139	140
Sulfated Ash wt %	<1.0	<1.0
Pour Point °C	-36	-32
HTHS @ 150 °C	3.4	4.0
Flash Point °C (COC)	238	241
TBN	9.7	9.7
Phosphorous, m%	0.113	0.113

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

**Meets or exceeds manufacturer warranty requirements. Always check owner's manual for recommended viscosity.**

### SPECIAL HANDLING, NOTICES OR WARNINGS

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